April 28, 2021

SENT VIA FEDERAL EXPRESS

Ms. Sonja Favors
Alabama Department of Environmental Management
Industrial Hazardous Waste Branch
Land Division
1400 Coliseum Boulevard
Montgomery, Alabama 36130-1463

RE: 2020 Annual Groundwater Detection Monitoring and
Corrective Action Effectiveness Report
Solutia Inc., Anniston, Alabama
EPA RCRA ID #ALD004019048; EPA CERCLA ID #ALD000400123
Docket No. 1:02-cv-0749-KOB

Dear Ms. Favors:

Please find attached an electronic copy of the above-referenced report. This report is submitted in compliance with the requirements of condition II.B.6 of the Facility's RCRA Post-Closure Permit and the Interim Record of Decision for Operable Unit 3 of the Anniston PCB Site. If you should have any questions or need additional information, please call me at (256) 231-8404.

Sincerely,

E. Gayle Macolly
Manager, Remedial Projects
Solutia Inc.

Attachments: 2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

cc: Ms. Pam Scully, USEPA Region IV
Mr. Thomas Dahl, Dahl Environmental Associates

2020 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

RCRA Post-Closure Permit ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB



Issued: 28 April 2021

Prepared for: Solutia Inc.
Anniston, Alabama

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ABBREVIATIONS

ADEM	Alabama Department of Environmental Management
AHWMMA	Alabama Hazardous Waste Management and Minimization Act
AWWSB	Anniston Water Works & Sewer Board
CD	Consent Decree
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
COC	Constituent of Concern
COV	Coefficient of Variation
CTS	Carbon Treatment System
EPA	United States Environmental Protection Agency
GAC	Granular Activated Carbon
GSI	GSI Environmental Inc.
IROD	Interim Record of Decision
IW	Interceptor Well
MNA	Monitored Natural Attenuation
OU	Operable Unit
OU-3	Operable Unit 3
OW	Observation Well
P/S	Pharmacia LLC and Solutia Inc.
PCB	Polychlorinated Biphenyl
PNP	Para-Nitrophenol (also 4-Nitrophenol)
POTW	Publicly Owned Treatment Works
RA	Remedial Action
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
S	Mann-Kendall Statistic
SID	State Indirect Discharge
Site	Anniston PCB Site
Solutia	Solutia Inc.
SOW	Statement of Work
SWMU	Solid Waste Management Unit

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1.0 EXECUTIVE SUMMARY

1.1 Basis for Annual Report

This report has been prepared to document the results of groundwater monitoring and corrective action during 2020 at the Solutia Inc. facility in Anniston, Alabama (see Figure 1). Groundwater monitoring and corrective action are being conducted at Operable Unit 3 (OU-3) in accordance with the: i) RCRA Post-Closure Permit No. ALD 004 019 048 issued by the Alabama Department of Environmental Management (ADEM) on 19 July 2019; and ii) Consent Decree (CD) issued by the US Environmental Protection Agency (USEPA) Region 4 on 17 April 2013 and the associated Interim Record of Decision (IROD) and Remedial Action (RA) Work Plan required pursuant to CERCLA. This report describes the requirements for groundwater monitoring and corrective action efforts and documents the progress achieved regarding these activities during the calendar year 2020.

1.2 Summary of Findings

Groundwater monitoring conducted during 2020 has demonstrated that the RCRA corrective action program and the CERCLA remedial action are being implemented in accordance with applicable requirements as summarized below. The monitoring well network and corrective action systems are depicted on Figures 2 and 3, respectively.

- ***RCRA Groundwater Detection Monitoring:*** At WMA I (South Landfill Cells 4E and 5E), semi-annual groundwater sampling and testing during 2020 have demonstrated that no release has occurred from the unit.

- ***RCRA Groundwater Corrective Action:*** At WMA II (New Limestone Bed) and SWMU 1 (South Landfill), semi-annual groundwater sampling and testing have demonstrated that operation of groundwater pump-and-treat systems has successfully impeded affected groundwater from moving downgradient. In addition, statistical trend analysis of groundwater monitoring data for the last ten years shows that concentrations of Constituents of Concern (COCs) are generally stable or decreasing, thereby indicating the effectiveness of the groundwater recovery efforts.

- ***CERCLA Remedial Action (RA):*** Pump-and-treat systems are currently recovering affected groundwater at Corrective Action Areas near monitoring wells OW-21A and OW-10 (see Figure 4). Groundwater monitoring, which is conducted annually in the vicinity of these wells and at other select locations throughout OU-3, demonstrates that COC concentrations are generally consistent with the three prior CERCLA RA

monitoring events. Notably, the addition of the 2020 monitoring results for many of the CERCLA wells represents the fourth data point in the temporal record, which is the minimum number of sampling events required for trend analysis. As such, trends are reported for several COCs and wells for the first time, which indicate primarily stable plume conditions.

2.0 FACILITY BACKGROUND

2.1 General Facility Description

OU-3 extends over an approximate 155-acre area located about one mile west of downtown Anniston, Alabama (see Figure 1). The manufacturing area comprises the northern portion of the OU-3 area and encompasses approximately 68 acres. OU-3 is bounded to the north by the Norfolk Southern and Erie railroads, to the east by Clydesdale Avenue, to the west by the closed West End Landfill and an Alabama Power Company substation and to the south by Highway 202. In addition, OU-3 includes the South Landfill located on the south side of Highway 202.

Solutia currently manufactures polyphenyl compounds and phosphate ester-based nonflammable hydraulic fluids under the authorization of applicable environmental permits. Environmental activities at the facility have included a combination of investigative and remedial efforts conducted pursuant to these permits.

2.2 Closed Units and Corrective Action Areas

This annual groundwater monitoring report addresses closed waste management units and corrective action areas identified in the RCRA permit and the IROD. The facility previously operated the following hazardous waste management and/or disposal areas:

i) WMA I: Closed Cells 4E and 5E of the South Landfill;
ii) WMA II: New Limestone Bed; and
iii) SWMU 1: Closed Cells 1W, 2W, 2WA, 3W, and 4W of the South Landfill.

WMA I: Closed Cells 4E and 5E (eastern portion of South Landfill)

Closed Cells 4E and 5E of the South Landfill have been designated as WMA I. Cells 4E and 5E represent two of the ten cells comprising the South Landfill. The disposal unit was used for the disposal of ruffage (i.e., general trash) generated within the parathion and para-nitrophenol production areas. The general trash included, among other wastes, discarded empty used fiber drums, empty used sample containers, rubber overshoes, gloves, filter papers, etc., which potentially contained residues of parathion, methyl parathion, and/or para-nitrophenol (PNP). Occasionally, spill residues from the clean-up of these same materials were disposed in these cells.

These wastes were considered hazardous by characteristic as listed pursuant to ADEM Administrative Code 335-14-2-.04(4)(e, f): discarded commercial chemical products, off-specification species, container residues and spills of parathion (P089), methyl parathion

(P071), and p-nitrophenol (U170). These wastes were collected in dumpsters located at various points within the manufacturing area.

WMA I was closed in compliance with provisions contained in an operating permit issued under the Alabama Hazardous Waste Management and Minimization Act (AHWMMA) and RCRA.

No release to groundwater has been documented from WMA I. A series of groundwater monitoring wells is located hydraulically downgradient of the unit to detect any potential release from the unit to groundwater.

WMA II: New Limestone Bed

WMA II, also known as the New Limestone Bed, was used as a surface impoundment for treatment of characteristically hazardous waste. The unit was not used for waste disposal. WMA II was employed to partially neutralize an aqueous process wastewater stream, having the characteristic of corrosivity (D002) prior to biological treatment in the on-site industrial wastewater treatment system. Additionally, as a matter of convenience, the column bottoms from an acetone recovery distillation column (F003) flowed through this surface impoundment. As with WMA I, WMA II was closed in compliance with provisions contained in an operating permit issued under the AHWMMA and RCRA. A series of interceptor wells located near the northern boundary of OU-3 addresses a release to groundwater in the area of WMA II.

SWMU 1: South Landfill

The South Landfill was operated from 1960 to 1988 and included ten individual closed disposal cells (i.e., 1W, 2W, 2WA, 3W, 4W, 1E, 2E, 3E, 4E, and 5E). As noted above, Cells 4E and 5E have been designated as WMA I. The remaining cells have been designated as SWMU 1, which has been referred to EPA as noted in Table IV.4 of the current RCRA permit.

Interim corrective measures were constructed to prevent transport of affected soils from the South Landfill. These measures included the installation of a multi-layer cap and drainage controls over the waste, with a clay and vegetative cap around the disposal areas. As part of the CERCLA RA work, the caps atop cells 1E, 2E, and 3E (referred to as the PCB cells) of the South Landfill were upgraded to be compliant with the provisions of RCRA, 42 U.S.C. §6901 et seq. (1976) Subtitle C during the period of mid-2015 to early 2016 (Solutia, 2017b).

At Cell 3E, water from a pre-existing seep was observed emanating from beneath the cap following construction in 2016. A seep collection and conveyance system were installed in 2018 to collect water from beneath the cap.

A series of interceptor wells (IWs) located north of the unit (including well IW-14A to the west of Clydesdale Blvd.) addresses a release to groundwater in the area of SWMU 1 (see Figure 4).

CERCLA Remedial Action Corrective Action Areas

Under the provisions of the IROD, a Performance Verification Sampling Program (PSVP) is being conducted to support the Remedial Action for OU-3. The groundwater remedy for OU-3 includes interceptor wells in the vicinity of the two groundwater impact areas identified near wells OW-21A and OW-10 (see Figure 4). An additional component of the groundwater remedy for the Site includes monitored natural attenuation (MNA) for addressing parathion and PNP. Previous data indicate that this is only applicable in the OW-21A area, as parathion and PNP concentrations were less than CERCLA Remediation Goals in other portions of the Site.

2.3 Shallow Stratigraphy and Groundwater Occurrence

2.3.1 Shallow Stratigraphy

Previous investigations conducted at the facility have described the shallow stratigraphy beneath the site (particularly Solutia Inc. and Pharmacia Corporation, 2008). Cross-sections prepared for the RCRA Permit Renewal Application (Solutia, 2018) are provided on Figures 5 and 6. General descriptions of the shallow stratigraphic units beneath the facility are provided below.

- ***Residuum:*** Beneath most of the OU-3 area, the near-surface geology consists of low-permeability residuum composed of silts and clays. In general, boring logs indicate the residuum becomes denser with depth, as expected in a typical weathering profile. For this reason, the residuum has been loosely divided into two units. The residuum extends to a depth of more than 100 feet below ground surface (bgs) and acts as a semi-confining unit to the underlying Shady Dolomite.

  - *Shallow Residuum:* The upper part of the residuum consists of fine-to-coarse-grained sandy to silty clays and extends laterally across most of the facility. The material from the surface to a depth of about 45 feet bgs is referred to as the shallow residuum. The Shallow Residuum represents the uppermost aquifer beneath the site.

  - *Deep Residuum:* The material from about 45 feet bgs to the top of weathered bedrock is referred to as the deep residuum.

- ***Bedrock:*** The Deep Residuum is underlain beneath most of the facility by dolostone or dolomitic limestone bedrock of the Shady Dolomite Formation, which is encountered at an average approximate depth of 100 feet bgs. At the northernmost area of OU-3, several borings have encountered the highly weathered shale of the Rome Formation underlying the residuum at an approximate depth of 50 feet bgs. To the south, one boring penetrated both the residuum and dolostone, encountering quartzite bedrock of the Weisner Formation (Figure 5).

2.3.2 Hydrology

Historical groundwater measurements have indicated that groundwater generally flows to the north in the Shallow Residuum, the Deep Residuum, and the shallow bedrock units (Solutia, 2018). This general flow direction reflects the surface topography, especially within the shallow residuum which occurs under unconfined conditions. This includes the northern face of Coldwater Mountain to the south of the site, which trends to a flat gradient across the production area of the facility.

Locally, the shallow groundwater gradient is influenced by anthropogenic features such as backfilled excavations, caps, etc., which produce variable hydraulic conductivities and groundwater recharge rates. Also, the groundwater extraction systems influence the groundwater flow patterns in localized areas of the facility. Additional detail on current groundwater flow patterns is provided in Section 5.1.

Monthly rainfall totals at the site are presented in Table 7 for the last five years. The annual site rainfall for 2020 was 72.94 inches, which is 40% greater than the average annual rainfall for the Anniston, Alabama area of approximately 52 inches.

2.3.3 Selection of Monitoring Parameters

Previous groundwater sampling and testing programs conducted at the Solutia Anniston facility have identified potential COCs to be analyzed during groundwater monitoring programs. For corrective actions currently being implemented in accordance with the requirements of the RCRA Permit, remediation standards have been defined as the RCRA Concentration Limits. For remedial action being conducted in accordance with the IROD, remediation standards have been defined as CERCLA Remediation Goals. Remediation standards are provided on Table 5 along with the 2020 groundwater monitoring results.

3.0 GROUNDWATER SAMPLING PROCEDURES

3.1 Basis for Groundwater Monitoring

Groundwater sampling and analysis were conducted semi-annually in accordance with the Quality Assurance Project Plan (Solutia, 2018) from the RCRA Permit Renewal Application, along with the OU-3 Performance Standards Verification Program Sampling and Analysis/Quality Assurance Project Plan (PSVP SA QAPP; Solutia, 2015a).

3.2 Sampling Procedures

Groundwater samples and field measurements were collected from the specified wells during May and October 2020 (see Table 2). Well construction specifications are provided in Appendix A.

3.2.1 Groundwater Elevation Measurements

Prior to groundwater sampling, groundwater levels were measured in wells from which samples were to be collected and from other monitoring wells and piezometers located throughout OU-3. Measurements were completed on 11-13 May and 19-21 October 2020, using electronic water level indicators having an accuracy of 0.01 feet. Groundwater elevations were tabulated (see Table 4) and employed to construct potentiometric surface contour maps for the Shallow Residuum, Deep Residuum, and Shallow Bedrock strata as discussed in Section 4.1.

3.2.2 Groundwater Sample Collection

Well Purging and Sampling

Monitoring wells were purged, and samples collected using low-flow procedures as specified in the applicable sampling and analysis plans (Solutia, 2015a; 2018). Wells sampled as part of the RCRA Groundwater Detection Monitoring and RCRA Groundwater Corrective Action Monitoring programs are equipped with dedicated bladder pumps used for both purging and sampling. In wells sampled as part of the CERCLA Remedial Action, portable bladder pumps are used for both purging and sampling. The portable bladder pumps are decontaminated, and new, unused bladders are installed before use at each well. Wells were purged at a rate of 0.1 to 0.4 L/min to produce minimal drawdown, and field indicator parameters were measured until measurements stabilized to within specified ranges. Purge water was treated using granular activated carbon prior to being managed on site. Temperature, pH, specific conductance, turbidity, dissolved oxygen, and redox potential were measured in the field during purging, and the values measured after stabilization and immediately prior to collecting the samples are summarized on Table 3.

Laboratory Analyses

Groundwater samples were collected in method specified containers and shipped under chain-of-custody control to Eurofins TestAmerica Laboratories, Inc. in Savannah, Georgia. Samples were analyzed for the COCs listed on Table 2. Trip blanks, field blanks, field duplicates, and matrix spike/matrix spike duplicate pairs were collected as described in the Data Validation Summary included as Appendix F. Complete laboratory reports are provided in Appendix H.

Sample Filtration

Sampling procedures for groundwater monitoring conducted under RCRA specify filtration of PCB and metals samples using a 0.1-micron filter (Solutia, 2018), while CERCLA procedures specify a 2-micron filter (Solutia, 2015). Because 2-micron filters are not readily available commercially and because some CERCLA wells are also part of the RCRA monitoring program, all sample filtration for the 2020 monitoring program was conducted using 0.1-micron filters. For CERCLA-related performance assessment, including comparison of sample results to CERCLA Remediation Goals and concentration

trend analyses for CERCLA wells, only the results for unfiltered samples are utilized. Results for both unfiltered and filtered samples are provided in tables and figures.

4.0 EVALUATION OF GROUNDWATER MONITORING RESULTS

4.1 Groundwater Flow Rate and Direction

Potentiometric surface maps have been prepared for the Shallow Residuum, Deep Residuum, and Shallow Bedrock units using groundwater measurements collected in May and October 2020 (see Figures 7a, 7b, 8a, 8b, 9a and 9b). Consistent with historical trends, most groundwater elevations were approximately 2 to 15 feet higher in May than in October 2020. Both May and October 2020 groundwater elevations are consistent with those presented in previous annual groundwater monitoring reports and indicate similar groundwater flow directions, gradients, and seepage velocities. Note that an estimate of effective porosity is not available for the Shallow Bedrock unit; therefore, a groundwater seepage velocity has not been estimated for the unit.

4.1.1 Shallow Residuum

Groundwater within the Shallow Residuum flows in a general north to northeasterly direction under a hydraulic gradient of 0.04, as measured from well OW-16A to well OW-09 (see Figures 7a and 7b). Based on previous aquifer testing, the geometric mean hydraulic conductivity of the Shallow Residuum is 1.53E-02 feet per day (5.4E-06 cm/sec; Solutia, 2007). The effective porosity of the residuum is estimated at 20% (Solutia, 2007). The groundwater seepage velocity within the Shallow Residuum can be calculated using Darcy's Law (Freeze and Cherry, 1979):

$$V_s = \frac{Ki}{N_e}$$

Where: V_S = seepage velocity, K = hydraulic conductivity i = hydraulic gradient, and N_e = effective porosity. This yields a seepage velocity for the Shallow Residuum of approximately 1.1 feet per year. Note that transport of organic compounds would be slower than this velocity as a result of sorption to soil particles.

4.1.2 Deep Residuum

Groundwater within the Deep Residuum flows in a general north to northwesterly direction under a hydraulic gradient of 0.04, as measured from well OWR-15D to well OWR-04D (see Figures 8a and 8b). Based on previous aquifer testing, the geometric mean hydraulic conductivity of the Deep Residuum is 6.4E-03 feet per day (2.3E-06 cm/sec; Solutia, 2007). Calculating the seepage velocity within the Deep Residuum in a similar manner to that described above for the Shallow Residuum yields an approximate seepage velocity of 0.5 feet per year.

4.2 Groundwater Quality

The overall results of the groundwater monitoring conducted in 2020 indicate that detected COCs and respective concentrations are generally consistent with previous results. A summary of COCs detected during the May and October 2020 groundwater monitoring events is presented in this section and on Table 5. The table indicates those wells which were sampled in accordance with the RCRA Groundwater Detection Monitoring Program, the RCRA Corrective Action Monitoring Program, and the CERCLA Remedial Action Program. Note that samples are collected and analyzed from the following three wells to satisfy the requirements of the latter two programs.

- ***Well OW-08A:*** Sampled for PCB Aroclors, manganese, cobalt, mercury, chlorobenzene, O,O,O-triethylphosphorothioate, 4-nitrophenol, 1,2-dichlorobenzene, 1,4-dichlorobenzene, parathion, and tetraethyldithiopyrophosphate per the RCRA Corrective Action Monitoring Program and indeno(1,2,3-cd)pyrene per the CERCLA Remedial Action Program.

- ***Well OW-16A:*** Sampled for PCB Aroclors, manganese, cobalt, mercury, chlorobenzene, O,O,O-triethylphosphorothioate, 4-nitrophenol, 1,2-dichlorobenzene, 1,4-dichlorobenzene, parathion, and tetraethyldithiopyrophosphate per the RCRA Corrective Action Monitoring Program and 1,2,4-trichlorobenzene per the CERCLA Remedial Action Program.

- ***Well OW-21A:*** Sampled for PCB Aroclors, manganese, cobalt, mercury, chlorobenzene, O,O,O-triethylphosphorothioate, 4-nitrophenol, 1,2-dichlorobenzene, 1,4-dichlorobenzene, parathion, and tetraethyldithiopyrophosphate per the RCRA Corrective Action Monitoring Program. Based on concentrations of these COCs in OW-21A, the area in the vicinity of well OW-21A was designated as a Corrective Action area addressed by the CERCLA Remedial Action Program.

Groundwater monitoring data have been compared to applicable RCRA Concentration Limits or the CERCLA Remediation Goals, and concentrations exceeding applicable limits are highlighted on Table 5.

4.2.1 WMA I Groundwater Detection Monitoring

No COCs were detected in the background well (MW-01B) or any point of compliance well (i.e., MW-11A, MW-12A, and MW13A) above the RCRA Concentration Limits, indicating that no release has occurred from the unit (see Figure 10).

4.2.2 WMA II and SWMU 1 Groundwater Corrective Action Monitoring

Of the 13 wells monitored at WMA II and SWMU 1, including the background well (MW-01B), seven wells evidenced no detections greater than the RCRA Concentration Limits for any analyte. Concentrations in groundwater samples were less than RCRA Concentration Limits for all volatile organic compounds and metals analyzed (see Figures 11 and 15). The monitoring locations and COCs that exceeded their respective RCRA Concentration Limits in the WMA II and SWMU 1 wells are summarized in Exhibit 1 below.

Exhibit 1. Summary of RCRA Concentration Limit Exceedances

Well	Unit	COC Exceeding RCRA Concentration Limit
OW-08A	SWMU 1	Total PCBs (unfiltered)
OW-15	SWMU 1	Total PCBs (unfiltered)
OW-16A	SWMU 1	Total PCBs (unfiltered)
OW-21A	WMA II	Total PCBs (unfiltered) 4-Nitrophenol O,O,O-Triethylphosphorothioate Parathion
OW-22	WMA II	Total PCBs (unfiltered)
MW-20A	WMA II	Pentachlorophenol

- ***Sampling at Well OW-16A:*** As noted above, samples collected from OW-16A are analyzed for 1,2,4-trichlorobenzene, which has been assigned a Remediation Goal under CERCLA but not a Concentration Limit under RCRA. The concentration of 1,2,4-trichlorobenzene at well OW-16A exceeded the CERCLA Remediation Goal as discussed below in section 4.2.3.3. Mann-Kendall statistical analysis indicates a "stable" trend for this COC at this well over the entire monitoring record.

- ***Results for Filtered Samples:*** Total PCB Aroclors in filtered samples were less than the applicable RCRA Concentration Limit of 0.5 ug/L in all samples (see Figure 13). These results demonstrate that PCB detections in groundwater are primarily associated with entrained sediments that can be effectively removed through filtration.

- ***Notable Differences from Prior Monitoring Events:*** At well MW-20A, pentachlorophenol (PCP) was detected at a concentration of 8.5 ug/L (with a duplicate sample concentration of 11 ug/L), exceeding the RCRA Concentration Limit of 1 ug/L. In 2019, PCP was not detected at MW-20A, which appears to have been an anomalous result compared to the historical monitoring record (see Figure 12 and Appendix G, Figure G.2). Reported PCP concentrations have ranged from approximately 4 to 14 ug/L over the 15 years, with one other instance of a non-detect result in 2006. Mann-Kendall statistical analysis indicates a "decreasing" trend for PCP at this well over the entire monitoring record.

  At well OW-21A, PCBs were detected above the RCRA Concentration Limit in the unfiltered sample after an apparently anomalous non-detect result in April 2019 (see Figure 13 and Appendix G, Figure G.4). The filtered sample was non-detect for PCBs, consistent with prior monitoring events. Mann-Kendall statistical analysis indicates a "decreasing" trend for PCBs at this well over the entire monitoring record.

4.2.3 CERCLA Performance Verification Sampling

Results from the May 2020 groundwater sampling as conducted in accordance with the PSVP SA QAPP (Solutia, 2015a) are summarized below and on Figures 16 through 19.

The monitoring locations and COCs that exceeded their respective CERCLA Remediation Goals at OU-3 are summarized in Exhibit 2 below.

Exhibit 2. Summary of CERCLA Remediation Goal Exceedances

Well	Area	COC Exceeding CERCLA Remediation Goal
OW-21A	OW-21A	Total PCBs 4-Nitrophenol O,O,O-Triethylphosphorothioate Parathion
T-04	OW-21A	Total PCBs
T-09	OW-21A	Total PCBs
OW-10	OW-10	Manganese Mercury
T-20	OW-10	Total PCBs Manganese
OWR-11	Other Areas Within OU-3	Total PCBs Cobalt Manganese
OWR-13	Other Areas Within OU-3	Total PCBs
OW-14D	Other Areas Within OU-3	Total PCBs
OW-15D	Other Areas Within OU-3	Total PCBs
OW-16A	Other Areas Within OU-3	1,2,4-Trichlorobenzene
T-06	Other Areas Within OU-3	Total PCBs
T-18	Other Areas Within OU-3	Total PCBs
WEL-01	Other Areas Within OU-3	Total PCBs

Specific results and notable differences from previous monitoring events are discussed in more detail in the following sections.

4.2.3.1 Well OW-21A Corrective Action Area

- ***Volatile Organic Compounds and Metals:*** All concentrations of VOCs and metals were less than the CERCLA Remediation Goals for all wells in the well OW-21A Corrective Action Area (see Figures 16 and 19).

- ***Pesticides and Semi-Volatile Organic Compounds:*** At well OW-21A, concentrations of one pesticide (parathion) and one SVOC (4-nitrophenol) exceeded CERCLA Remediation Goals (see Figure 17). The concentration of parathion at well OW-21A is consistent with historical data (see Appendix E) and based on the Mann-Kendall statistical trend analysis is “probably decreasing” over time (see Figure G.6 in Appendix G). The concentration of 4-nitrophenol at well OW-21A increased relative to previous data (see Appendix E), but remains stable based on the Mann-Kendall statistical trend analysis (see Figure G.1 in Appendix G).

- ***PCB Aroclors:*** PCB Aroclors were detected in groundwater samples collected from three of the four wells sampled in the well OW-21A Corrective Action Area (OW-21A, T-04, and T-09; see Figure 18). At well T-04, located hydraulically upgradient of OW-21A, total PCBs were reported at a concentration of 13 ug/L. At well T-09, located hydraulically downgradient of OW-21A, total PCBs were reported at a concentration of 1.65 ug/L (average of duplicate samples). Based on the Mann-Kendall statistical trend analysis, the PCB concentration at well T-04 is stable while no trend in the PCB concentration at well T-09 has been established, likely due to the limited number of sampling events.

  At well OW-21A, PCBs were reported at a total concentration of 35 ug/L, after being non-detect in 2019. As noted in the 2019 report, the non-detect result was the first occurrence of a non-detect result for PCBs at this well. The concentration of 35 ug/L reported in 2020 is consistent with more recent historical results that have varied with an approximate order of magnitude range between 30 ug/L and 300 ug/L. Mann-Kendall trend analysis continues to indicate a “decreasing” concentration trend for PCBs at OW-21A (see Figure G.4 of Appendix G).

4.2.3.2 Well OW-10 Corrective Action Area

- ***Volatile Organic Compounds:*** All concentrations of VOCs were less than the CERCLA Remediation Goals for all wells in the well OW-10 Corrective Action Area (see Figure 16).

- ***PCB Aroclors:*** At well OW-10, PCB Aroclors were not detected, representing the initial occurrence of a non-detect result since the CERCLA monitoring program began in April 2017 (see Figure 18). At well T-20 located downgradient of OW-10, a single PCB Aroclor (1248) was reported at a concentration of 1.1 ug/L, representing the initial occurrence of a PCB detection at this well.

- ***Metals:*** At well OW-10, manganese and mercury concentrations exceeded the respective CERCLA Remediation Goals (see Figure 19). In the downgradient well T-20, manganese concentrations also exceeded the CERCLA Remediation Goal. Concentrations of manganese and mercury in the OW-10 area are consistent with previous data, while beryllium was not detected in any samples collected from OW-10 for the first time since CERCLA sampling began in April 2017.

4.2.3.3 Other Areas Within OU-3

Nine wells are sampled across OU-3 under the CERCLA Remedial Action Program for PCB Aroclors, PCB Homologs, and metals. As discussed in section 4.2, the RCRA Corrective Action Monitoring wells OW-16A and OW-08A are also sampled for one VOC and one SVOC, respectively, under the CERCLA Remedial Action Program. Results for sampling of these eleven wells within OU-3 are summarized below:

- ***Volatile Organic Compounds:*** A concentration of 350 ug/L was reported for 1,2,4-trichlorobenzene at well OW-16A, which exceeded the CERCLA Remediation Goal of 70 ug/L (see Figure 16).

- ***Semi-Volatile Organic Compounds:*** Indeno(1,2,3-cd)pyrene, the only compound analyzed at well OW-08A under the CERCLA Remedial Action program, was not detected (see Figure 17).

- ***PCB Aroclors****:* The concentrations of total PCB Aroclors were less than the reporting limit at two wells (i.e., WEL-04 and OWR-03S). Reported concentrations of total PCB Aroclors in unfiltered samples exceeded the CERCLA Remediation Goal of 0.5 ug/L at the other seven wells (i.e., OWR-11, OWR-13, OWR-14D, OWR-15D, T-6, T-18, and WEL-01; see Figure 18).

- ***PCB Homologs****:* Reported concentrations of total PCB Homologs in unfiltered samples exceeded the CERCLA Remediation Goal of 0.5 ug/L at three wells (OWR-13, OWR-14D, and T-18; see Figure 18 and Table 5).

- ***Metals:*** Concentrations of cobalt and manganese were less than CERCLA Remediation Goals in all but one well, OWR-11 (see Figure 19).

5.0 EVALUATION OF CORRECTIVE ACTION SYSTEMS

5.1 Capture of Affected Groundwater

- ***RCRA Groundwater Corrective Action:*** Operation of IWs has successfully controlled migration of affected groundwater as demonstrated by cones of depression maintained by the interceptor wells at WMA II and SWMU 1 (see Figures 7a and 7b).

- ***CERCLA RA:*** In the Corrective Action Areas near wells OW-21A and OW-10, large drawdowns are maintained in the associated interceptor wells indicating recovery of impacted groundwater (see Figures 7a and 7b).

5.2 Corrective Action Systems Operation and Maintenance

A summary of the operation of the corrective action systems during calendar year 2020 is provided below:

- ***WMA II, New Limestone Bed:*** Groundwater was recovered from a total of 11 interceptor wells located immediately downgradient of WMA II (i.e., wells IW-16 through IW-25 and DW-01; see Figure 2). Volumes of recovered groundwater are measured for the entire well network and totaled more than 0.64 million gallons during 2020 (see Table 6). Water is collected in a tank for subsequent on-site management.

- ***SWMU 1, South Landfill:*** More than 0.80 million gallons was recovered in 2020 from the 11 interceptor wells located along the western and northern sides of SWMU 1 (i.e., wells IW-02, IW-05 through IW-08, and IW-10 through IW-14; see Table 6 and Figure

2). Recovered groundwater is treated by filtration and granular activated carbon (GAC) in Carbon Treatment System (CTS) #3. The treated groundwater from CTS #3 is discharged to the Anniston Water Works and Sewer Board (AWWSB) sewer system in accordance with State Indirect Discharge (SID) Permit Number IU350800048 (effective October 1, 2018).

CTS #3 also treats water collected by the Cell 3E seep collection and conveyance system. Seep flow is intermittent in the summer and fall. In 2020, seep flow was continuous from approximately mid-January through mid-April, which was generally consistent with observations from 2019. Seep flow occurrence and intensity have been observed to strongly correlate to rainfall events and groundwater elevations upgradient of the seep area (i.e., at MW-01B). In 2020, seep water treated at CTS #3 totaled approximately 0.90 million gallons (this volume is in addition to the volume of groundwater recovered by the SWMU 1 IWs).

The SWMU 1 recovery system operated continuously in 2020 with the exception of brief, intermittent periods of downtime during peak seep flow events in late January through mid-February. The volume of groundwater recovered by the system in 2020 is higher than in the previous five-year period when between 0.2 and 0.46 million gallons were recovered each year. Based on the low permeability of the residuum and slow seepage velocity of groundwater, these periods of intermittent downtime are not anticipated to adversely affect plume control.

- ***Well OW-21A Corrective Action Area:*** A total of more than 1.1 million gallons of groundwater was recovered from wells IW-26 and IW-27 located downgradient of well OW-21A (see Table 6 and Figure 2). Water is treated by filtration and GAC in CTS #1 and the treated groundwater is discharged to the AWWSB sewer system per the SID permit (effective October 1, 2018).

- ***Well OW-10 Corrective Action Area:*** Approximately 94,300 gallons of groundwater were recovered from wells IW-28 and IW-29 located downgradient of well OW-10 (see Table 6 and Figure 2). Water is treated by filtration and GAC in CTS #2 and the treated groundwater is discharged to the AWWSB sewer system per the SID permit (effective October 1, 2018).

5.3 Groundwater Monitoring Concentration Trend Analyses

In order to evaluate the effectiveness of the Corrective Action and Remedial Action systems for reducing COC concentrations in groundwater, trends of COC concentrations versus time have been evaluated. The Mann-Kendall statistical analysis was employed for this purpose

Description of the Mann-Kendall Test

The Mann-Kendall test is a non-parametric statistical procedure that is well suited for analyzing trends in data over time (Gilbert, 1987; Aziz et al., 2003; Connor, 2014). The Mann-Kendall test can be viewed as a non-parametric test for zero slope of the first-order regression of time-ordered concentration data versus time. The Mann-Kendall test does

not require any assumptions as to the statistical distribution of the data (e.g. normal, lognormal, etc.) and can be used with data sets which include irregular sampling intervals and missing data. The Mann-Kendall test is designed for analyzing a single groundwater constituent; multiple constituents are analyzed separately.

Interpretation of Results: Mann-Kendall Analysis

The Coefficient of Variation (COV) is a statistical measure of how the individual data points vary about the mean value. Values less than or near 1.00 indicate that the data form a relatively close group about the mean value. Values larger than 1.00 indicate that the data show a greater degree of scatter about the mean.

The Mann-Kendall statistic (S) measures the trend in the data. Positive values indicate an increase in constituent concentrations over time, whereas negative values indicate a decrease in constituent concentrations over time. The strength of the trend is proportional to the magnitude of the Mann-Kendall Statistic (i.e., large magnitudes indicate a strong trend).

The "Confidence in Trend" is the statistical confidence that the constituent concentration is increasing (S>0) or decreasing (S<0).

The "Concentration Trend" for each well is determined according to the decision matrix shown in Exhibit 3 below.

Exhibit 3. Mann-Kendall Analysis Decision Matrix

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	95%	Decreasing

Mann-Kendall Analysis of OU-3 Groundwater Monitoring Data

The majority of the COCs monitored at OU-3 are either not detected above laboratory detection limits or are present at concentrations below applicable remedial limits; therefore, for most COCs, corrective action or remediation goals have already been achieved. For those COCs and monitoring locations where concentrations exceed remedial criteria, the Mann-Kendall trend analysis has been applied to evaluate overall plume stability and corrective action effectiveness for groundwater. The Mann-Kendall trend analysis has been applied to all COCs with concentrations that exceeded remedial criteria in 2020 as summarized in Exhibit 4 below. As previously noted, four sampling events, the minimum required for Mann-Kendall trend analysis, have now been completed for all CERCLA monitoring wells and trends are presented below for many of these wells

and COCs for the first time. While a trend can be calculated using four events, more than four events are often necessary to establish a trend due to natural variability.

Exhibit 4. Results of Mann-Kendall Statistical Analysis

Unit or Corrective Action Area/Well	Constituent of Concern	Mann-Kendall Statistic (S)	Confidence Factor	Concentration Trend
WMA II				
MW-20A	Pentachlorophenol	-309	>99.9%	***Decreasing***
OW-22	Total PCBs	42	87.5%	***No Trend***
	Total PCBs (Filtered)	17	68.4%	***No Trend***
SWMU 1				
OW-08A	Total PCBs	-75	87.3%	***No Trend***
	Total PCBs (Filtered)	-97	94.0%	***Prob. Dec.***
OW-15	Total PCBs	160	99.4%	Increasing
	Total PCBs (Filtered)	-81	90.2%	***Prob. Dec.***
OW-16A	Total PCBs	5	52.5%	***No Trend***
	Total PCBs (Filtered)	-107	95.8%	***Decreasing***
	1,2,4-TCB	0	37.5%	***Stable***
OW-21A Area				
OW-21A	4-Nitrophenol	-1	50.0%	***Stable***
	O,O,O-TEPP	-31	87.0%	***Stable***
	Total PCBs	-61	98.9%	***Decreasing***
	Parathion	-42	92.3%	***Prob. Dec.***
T-04	Total PCBs	0	37.5%	***Stable***
T-09	Total PCBs	4	83.3%	***No Trend***
OW-10 Area				
OW-10	Total PCBs	-4	83.3%	***No Trend***
	Manganese	-2	62.5%	***Stable***
	Mercury	0	37.5%	***Stable***
T-20	Total PCBs	3	72.9%	***No Trend***
	Manganese	-4	83.3%	***Stable***
Other Areas Within OU-3				
OWR-11	Total PCBs	-2	62.5%	***Stable***
	Cobalt	-3	72.9%	***Stable***
	Manganese	-3	72.9%	***Stable***
OWR-13	Total PCBs	6	95.8%	Increasing
OW-14D	Total PCBs	0	37.5%	***Stable***
OW-15D	Total PCBs	2	62.5%	***No Trend***
T-06	Total PCBs	2	62.5%	***No Trend***
T-18	Total PCBs	4	83.3%	***No Trend***
WEL-01	Total PCBs	1	50.0%	***No Trend***

Notes:
1. See Appendix G for complete Mann-Kendall results.
2. Prob. Dec. = Probably Decreasing
3. O,O,O-TEPP = O,O,O-Triethylphosphorothioate
4. 1,2,4-TCB = 1,2,4-Trichlorobenzene; only analyzed in OW-16A per CERCLA

As summarized in Exhibit 4, a total of nine COCs at 17 monitoring locations had concentrations exceeding remedial criteria in 2020, resulting in trend calculation for 30 COC/well combinations. Where a trend has been established using the Mann-Kendall statistical analysis, 17 of the 30 trend results were Stable, Probably Decreasing, or Decreasing, while only 2 of the 30 trend results were Probably Increasing or Increasing. For the remaining 11 of the 30 trend results, no trend has been established due to low statistical confidence in the trend and/or high variability in the monitoring data. As expected, many of the "no trend" results are associated with CERCLA monitoring wells, which for many have only the four minimum monitoring events required to calculate a trend.

At WMA II and SWMU 1, concentrations of all COCs exceeding the respective RCRA Remedial Goals evidence a decreasing, stable, or no trend, with exception of OW-15, which is discussed further below. These trends are generally consistent with the trends previously presented. One minor exception is noted at well OW-21A, where the trend result for parathion changed from "Decreasing" to "Probably Decreasing" based on the 2020 monitoring data. At OW-15, associated with SWMU 1, total PCBs (unfiltered) exhibit an increasing trend. This result appears to primarily be a function of high variability in reported PCB concentrations, ranging from non-detect (generally at a detection limit of 0.5 ug/L) to 14.5 ug/L, between 1998 and 2008. Since 2009, PCB concentrations measured in OW-15 have been consistent between approximately 1 ug/L and 6 ug/L (see Figure G.3 in Appendix G). Furthermore, the filtered samples in this well have been all non-detect demonstrating the effectiveness of the groundwater remediation efforts for SWMU 1.

Trends for monitoring wells in the CERCLA Corrective Action Areas also evidence predominantly decreasing, stable, or no trend, with exception of OWR-13 located within the plant operating area. At OWR-13, total PCBs exhibit an increasing trend. A review of sampling data for this well indicates a minor increase in turbidity over the monitoring period, which could explain the increasing trend for total PCBs. The filtered sample for this well was non-detect for PCBs, as it was in 2019. Turbidity and PCB results will continue to be examined in future events to determine whether this well may benefit from redevelopment. Notably, well OWR-14D, which is located adjacent to OWR-13 and is screened in the deeper residuum, exhibits a stable trend for total PCBs.

In summary, the trend data indicate that the Corrective Action Systems and the Remedial Action are both progressing toward applicable cleanup limits by achieving predominantly declining or stable concentrations of COCs in groundwater.

GSI Job No. 5739

2020 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia, Inc., Anniston, Alabama
RCRA Post-Closure Permit ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

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TABLE 1
WELL DESIGNATIONS FOR GROUNDWATER MONITORING PROGRAMS

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

WELL NUMBER	WELL TYPE	UNIT(S) BEING MONITORED
RCRA Permit Designated Wells		
DW-01	Recovery	WMA II, SWMU 8
IW-02	Recovery	SWMU 1
IW-05	Recovery	SWMU 1
IW-06	Recovery	SWMU 1
IW-07	Recovery	SWMU 1
IW-08	Recovery	SWMU 1
IW-10	Recovery	SWMU 1
IW-11	Recovery	SWMU 1
IW-12	Recovery	SWMU 1
IW-13	Recovery	SWMU 1
IW-14A	Recovery	SWMU 1
IW-16	Recovery	WMA II, SWMU 8
IW-17	Recovery	WMA II, SWMU 8
IW-18	Recovery	WMA II, SWMU 8
IW-19	Recovery	WMA II, SWMU 8
IW-20	Recovery	WMA II, SWMU 8
IW-21	Recovery	WMA II, SWMU 8
IW-22	Recovery	WMA II, SWMU 8
IW-23	Recovery	WMA II, SWMU 8
IW-24	Recovery	WMA II, SWMU 8
IW-25	Recovery	WMA II, SWMU 8
MW-01B	Background	WMA I, WMA II, SWMU 1
MW-08	Boundary & Effectiveness	WMA II
MW-09A	Boundary & Effectiveness	WMA II
MW-11A	Point of Compliance	WMA I
MW-12A	Point of Compliance	WMA I
MW-13A	Point of Compliance	WMA I
MW-14	Boundary & Effectiveness	WMA II
MW-15	Point of Compliance	WMA II, SWMU 8
MW-16	Point of Compliance	WMA II, SWMU 8
MW-20A	Point of Compliance	WMA II, SWMU 8
OW-06A	Boundary & Effectiveness	SWMU 1
OW-08A	Boundary & Effectiveness	SWMU 1
OW-15	Boundary & Effectiveness	SWMU 1
OW-16A	Boundary & Effectiveness	SWMU 1
OW-21A	Boundary & Effectiveness	WMA II
OW-22	Boundary & Effectiveness	WMA II

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TABLE 1
WELL DESIGNATIONS FOR GROUNDWATER MONITORING PROGRAMS

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

WELL NUMBER	WELL TYPE	UNIT(S) BEING MONITORED
CERCLA Remedial Action Wells		
IW-26	Recovery Well	OW-10 Corrective Action Area
IW-27	Recovery Well	OW-10 Corrective Action Area
IW-28	Recovery Well	OW-10 Corrective Action Area
IW-29	Recovery Well	OW-10 Corrective Action Area
OW-10	Cap & Cover Effectiveness, Expanded Extraction System Performance	OW-10 Corrective Action Area, Area A
OWR-03S	Isolated Detection	OU-3
OWR-11	Cap & Cover Effectiveness	Area A
OWR-13	Cap & Cover Effectiveness	Area B and E
OWR-14D	Isolated Detection	OU-3
OWR-15D	Isolated Detection	OU-3
T-04	Isolated Detection	OU-3
T-06	Isolated Detection	OU-3
T-09	Expanded Extraction System Performance	OW-10 Corrective Action Area
T-10	Expanded Extraction System Performance	OW-21A Corrective Action Area
T-18	Cap & Cover Effectiveness	Area G
T-20	Expanded Extraction System Performance	OW-10 Corrective Action Area
WEL-01	Isolated Detection	OU-3
WEL-04	Isolated Detection	OU-3

Notes:
1. Well locations are shown on Figure 2.
2. Wells OW-6, OW-8, and OW-16 were replaced with wells OW-6A, OW-8A, and OW-16A in March 1998.
   Wells MW-9, IW-14, and OW-21 were replaced with wells MW-9A, IW-14A, and OW-21A in February 2003.
3. Well types and units are specified in the RCRA Post-Closure Permit No. ALD 004 019 048 issued 21 July 2020 and the OU-3 Performance Standards Verification Sampling and Analysis/Quality Assurance Project Plan issued January 2015.
4. CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   OU = Operable Unit
   OW = Observation Well
   RCRA = Resource Conservation and Recovery Act
   SWMU = Solid Waste Management Unit
   WMA = Waste Management Area

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TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
RCRA Permit Designated Wells - May Sampling Event		
MW-01B	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
MW-11A	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
MW-12A	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
MW-13A	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
MW-08	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
MW-09A	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury

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TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
RCRA Permit Designated Wells - May Sampling Event (Continued)		
MW-14	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
		Manganese
	Mercury	Mercury
MW-15	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
MW-15 (Filtered)	PCBs	Aroclors
	Metals	Cobalt
	Mercury	Mercury
MW-16	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
MW-16 (Filtered)	PCBs	Aroclors
	Metals	Cobalt
	Mercury	Mercury

GSI ENVIRONMENTAL

TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
RCRA Permit Designated Wells - May Sampling Event (Continued)		
MW-20A	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		Pentachlorophenol
		2,4,6-Trichlorophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
MW-20A (Filtered)	PCBs	Aroclors
OW-06A	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
OW-08A	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		Indeno(1,2,3-cd)pyrene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
		Manganese
	Mercury	Mercury
OW-08A (Filtered)	PCBs	Aroclors
	Metals	Cobalt
		Manganese
	Mercury	Mercury

GSI ENVIRONMENTAL

TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
RCRA Permit Designated Wells - May Sampling Event (Continued)		
OW-15	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
OW-15 (Filtered)	PCBs	Aroclors
	Metals	Cobalt
	Mercury	Mercury
OW-16A	VOCs	Chlorobenzene
		1,2,4-Trichlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
		Manganese
	Mercury	Mercury
OW-16A (Filtered)	PCBs	Aroclors
	Metals	Cobalt
		Manganese
	Mercury	Mercury
OW-21A	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
		Manganese
	Mercury	Mercury

GSI ENVIRONMENTAL

TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
RCRA Permit Designated Wells - May Sampling Event (Continued)		
OW-21A (Filtered)	PCBs	Aroclors
	Metals	Cobalt
		Manganese
	Mercury	Mercury
OW-22	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
OW-22 (Filtered)	PCBs	Aroclors
	Metals	Cobalt
	Mercury	Mercury
Trip Blank (2 samples)	VOCs	Chlorobenzene
		1,2,4-Trichlorobenzene
Field Duplicate 1	VOCs	Chlorobenzene
(1 sample)	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		Pentachlorophenol
		2,4,6-Trichlorophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
MS/MSD	VOCs	Chlorobenzene
(1 set)	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		Pentachlorophenol
		2,4,6-Trichlorophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury

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TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
CERCLA Remedial Action Wells - May Sampling Event		
OW-10	VOCs	Trichloroethene
	PCBs	Aroclors
	Metals	Beryllium
		Manganese
	Mercury	Mercury
OW-10 (Filtered)	PCBs	Aroclors
	Metals	Beryllium
		Manganese
	Mercury	Mercury
OWR-03S	PCBs	Aroclors
OWR-11	PCBs	Aroclors
	Metals	Cobalt
		Manganese
OWR-11 (Filtered)	PCBs	Aroclors
	Metals	Cobalt
		Manganese
OWR-13	PCBs	Aroclors
	PCB Homologs	PCB Homologs
OWR-13 (Filtered)	PCBs	Aroclors
	PCB Homologs	PCB Homologs
OWR-14D	PCBs	Aroclors
	PCB Homologs	PCB Homologs
	Metals	Manganese
OWR-14D (Filtered)	PCBs	Aroclors
	PCB Homologs	PCB Homologs
	Metals	Manganese
OWR-15D	PCBs	Aroclors
OWR-15D (Filtered)	PCBs	Aroclors
T-04	PCBs	Aroclors
	Metals	Manganese
T-04 (Filtered)	PCBs	Aroclors
	Metals	Manganese
T-06	PCBs	Aroclors
T-06 (Filtered)	PCBs	Aroclors
T-09	SVOCs	4-Nitrophenol
	PCBs	Aroclors
	Pesticides	Parathion
T-09 (Filtered)	PCBs	Aroclors
T-10	SVOCs	4-Nitrophenol
	PCBs	Aroclors
	Pesticides	Parathion

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TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
CERCLA Remedial Action Wells - May Sampling Event (Continued)		
T-18	PCBs	Aroclors
	PCB Homologs	PCB Homologs
T-18 (Filtered)	PCBs	Aroclors
	PCB Homologs	PCB Homologs
T-20	PCBs	Aroclors
	Metals	Manganese
	Mercury	Mercury
T-20 (Filtered)	Metals	Manganese
WEL-01	PCBs	Aroclors
	Metals	Manganese
WEL-01 (Filtered)	PCBs	Aroclors
	Metals	Manganese
WEL-04	PCBs	Aroclors
	Metals	Manganese
WEL-04 (Filtered)	PCBs	Aroclors
	Metals	Manganese
Trip Blank (2 samples)	VOCs	Trichloroethene
Field Duplicate 2	PCBs	Aroclors
	PCB Homologs	PCB Homologs
	Metals	Manganese
Field Duplicate 2 (Filtered)	PCBs	Aroclors
	PCB Homologs	PCB Homologs
	Metals	Manganese
Field Duplicate 3	SVOCs	4-Nitrophenol
	PCBs	Aroclors
	Pesticides	Parathion
Field Duplicate 4	VOCs	Trichloroethene
	PCBs	Aroclors
	Metals	Beryllium
		Manganese
	Mercury	Mercury
Field Duplicate 4 (Filtered)	PCBs	Aroclors
	Metals	Beryllium
		Manganese
	Mercury	Mercury
MS/MSD (1 set)	VOCs	Trichloroethene
	PCBs	Aroclors
	Metals	Beryllium
		Manganese
	Mercury	Mercury

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TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
RCRA Permit Designated Wells - October Sampling Event		
MW-01B	VOCs	Chlorobenzene
	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
MW-11A	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
MW-12A	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
MW-13A	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
MW-15	VOCs	Chlorobenzene
	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
MW-16	VOCs	Chlorobenzene
	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
MW-20A	VOCs	Chlorobenzene
	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
Trip Blank (1 sample)	VOCs	Chlorobenzene

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TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
RCRA Permit Designated Wells - October Sampling Event (Continued)		
Field Duplicate (1 sample)	VOCs	Chlorobenzene
	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
MS/MSD (1 set)	VOCs	Chlorobenzene
	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt

Notes:

1. Methods:
   VOCs = 8260 PCB Homologs = 680 Mercury = 7470
   SVOCs = 8270 Pesticides = 8141
   PCBs = 8082 Metals (Be, Mn, Co) = 6010
2. CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   MS/MSD = Matrix Spike/Matrix Duplicate
   PCBs = Polychlorinated biphenyls
   RCRA = Resource Conservation and Recovery Act
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound

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TABLE 3
GROUNDWATER FIELD PARAMETERS

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

WELL ID	SAMPLE DATE	SAMPLE TIME	TEMPERATURE (°C)	pH	SPECIFIC CONDUCTANCE (µmhoS/cm)	TURBIDITY (NTU)	DISSOLVED OXYGEN (mg/L)	ORP (mV)
May 2020								
MW-01B	5/16/2020	9:47	17.5	4.61	22.7	83.2	6.48	148.8
MW-08	5/18/2020	10:08	17	6.30	361.4	5.01	1.42	59.4
MW-09A	5/18/2020	9:52	19.3	4.82	142.4	0.95	6.44	193.5
MW-11A	5/16/2020	16:47	16.5	7.18	258.0	140	4.26	141.0
MW-12A	5/16/2020	10:41	16.9	6.96	219.9	1.16	4.56	135.3
MW-13A	5/16/2020	10:29	17.3	7.18	447.1	0.36	4.61	115.2
MW-14	5/18/2020	10:30	18	5.84	245.0	59.2	0.46	135.5
MW-15	5/13/2020	10:34	18.9	5.53	517	7.56	1.10	120.8
MW-16	5/13/2020	13:28	21.9	4.11	66	11.7	1.32	149.1
MW-20A	5/13/2020	10:21	18.9	6.81	1510	19.9	0.55	-55.1
OW-06A	5/18/2020	12:07	18	4.36	39.7	2.03	7.37	213.7
OW-08A	5/15/2020	18:26	18.3	5.51	247.3	1.97	1.95	245.9
OW-10	5/15/2020	11:41	20.3	6.59	1028	10.4	4.01	97.5
OW-15	5/13/2020	16:21	17.4	5.03	139.2	0.44	5.65	117.1
OW-16A	5/13/2020	16:29	18.2	4.39	201	3.25	3.96	156.6
OW-21A	5/16/2020	19:07	19	3.64	116.0	7.91	0.68	161.0
OW-22	5/16/2020	19:04	19.5	4.16	93.1	3.78	1.65	220.8
OWR-11	5/15/2020	12:04	18.8	3.92	417.5	23.5	0.14	265.0
OWR-13	5/14/2020	17:26	19.1	5.32	210.3	32.5	4.74	117.1
OWR-14D	5/15/2020	9:25	19.6	7.00	576	37.3	1.63	78.9
OWR-15D	5/15/2020	9:22	17.8	5.20	180.7	6.45	5.30	236.3
OWR-3S	5/14/2020	11:56	21	4.72	134.7	17.3	0.42	121.1
T-04	5/16/2020	16:35	18.9	6.43	263.5	9.49	1.51	72.4
T-06	5/14/2020	17:38	20.7	6.85	692	19.8	3.02	122.5
T-09	5/16/2020	16:15	18.5	5.72	257.5	21.0	2.22	82.6
T-10	5/16/2020	18:55	17.7	4.28	215.0	13.7	3.60	137.2
T-18	5/14/2020	14:04	21.9	5.20	282.7	23.8	0.22	92.6
T-20	5/15/2020	18:24	18	3.62	303.1	4.31	4.37	158.5
WEL-01	5/15/2020	15:13	16.2	4.55	85.0	2.52	3.95	127.1
WEL-04	5/14/2020	11:17	18.5	4.76	72.3	6.26	2.91	133.3
October 2020								
MW-01B	10/21/2020	11:45	18.1	4.56	15	5.17	6.28	349.1
MW-11A	10/22/2020	13:34	17.6	7.77	252	4.83	5.34	224.5
MW-12A	10/22/2020	10:06	17	7.49	258	2.72	5.7	229.5
MW-13A	10/22/2020	7:42	17.4	7.2	324	0.23	5.2	193
MW-15	10/22/2020	15:49	22.9	5.32	580	0.51	0.39	271.3
MW-16	10/21/2020	17:11	21	4.57	46	4.29	0.85	261.8
MW-20A	10/21/2020	14:41	23.9	6.84	1330	15.1	0.53	-77.1

Notes:

1. Well locations are shown on Figure 2.
2. Samples collected in May and October 2019 analyzed by GSI Environmental Inc., Houston, Texas using a YSI ProPlus, Hanna HI 98703, and Geotech Turbidmeter instruments.
3. > = Greater than. NTU = Nephelometric Turbidity Unit
   °C = Degrees Celsius ORP = Oxidation reducation potential
   mg/L = Milligrams/liter µmhoS/cm = Micromhos/centimeter
   mV = Millivolts

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TABLE 4
GROUNDWATER ELEVATION MEASUREMENTS
May and October 2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Total Boring Depth (ft bgs)	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)		Water Level Elevation (ft msl)		Measured Total Depth (ft btoc)
			May 2020 (Note 2)	October 2020 (Note 3)	May 2020	October 2020	October 2020 (Note 3)
Observation Wells							
OW-01	26	812.71	12.74	17.10	799.97	795.61	NM
OW-02	24	807.69	9.63	15.38	798.06	792.31	25.32
OW-03	24	805.25	13.29	17.06	791.96	788.19	27.94
OW-04	27	798.57	13.92	20.44	784.65	778.13	29.76
OW-05	65	773.02	15.87	17.80	757.15	755.22	NM
OW-06A	43	791.62	34.84	42.94	756.78	748.68	52.16
OW-07	43	785.82	35.02	40.05	750.80	745.77	NM
OW-08A	22	749.16	10.41	15.73	738.75	733.43	25.30
OW-09	40	738.36	9.01	20.34	729.35	718.02	NM
OW-10	40	736.87	11.91	14.18	724.96	722.69	39.72
OW-11	14	825.36	0.42	0.37	824.94	824.99	NM
OW-12	34.5	835.34	Obstruction	Obstruction	Obstruction	Obstruction	Obstruction
OW-13	43	805.16	Dry	Dry	Dry	Dry	45.70
OW-14	46	806.98	44.39	Dry	762.59	Dry	46.82
OW-15	40	766.90	8.60	13.45	758.30	753.45	44.99
OW-16	30	781.51	12.87	16.48	768.64	765.03	NM
OW-16A	30	779.74	11.82	15.31	767.92	764.43	35.23
OW-17	47	812.29	Dry	Dry	Dry	Dry	46.02
OW-18	28	750.47	10.42	10.48	740.05	739.99	NM
OW-19	33	748.72	9.17	7.49	739.55	741.23	27.09
OW-20	23	747.62	7.03	7.20	740.59	740.42	NM
OW-21A	35	744.46	13.47	14.68	730.99	729.78	37.96
OW-22	35	745.57	13.66	14.49	731.91	731.08	38.12
OW-23	23	747.53	7.91	8.09	739.62	739.44	NM
OW-24	29	738.67	8.70	8.72	729.97	729.95	NM
OW-25	37	800.21	14.66	18.75	785.55	781.46	37.32

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TABLE 4
GROUNDWATER ELEVATION MEASUREMENTS
May and October 2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Total Boring Depth (ft bgs)	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)		Water Level Elevation (ft msl)		Measured Total Depth (ft btoc)
			May 2020 (Note 2)	October 2020 (Note 3)	May 2020	October 2020	October 2020 (Note 3)
Bedrock Wells							
BR-01	311	897.46	267.98	275.64	629.48	621.82	NM
BR-02	181	865.22	Dry	Dry	Dry	Dry	177.01
BR-03	258	827.58	158.11	163.81	669.47	663.77	NM
BR-04	220	790.74	111.14	118.98	679.60	671.76	NM
BR-05	224	764.10	66.57	78.44	697.53	685.66	NM
Site Assessment Wells							
SA-06	50	815.56	25.15	39.55	790.41	776.01	NM
SA-22	24	792.84	8.64	22.54	784.20	770.30	NM
SA-64	24	748.65	13.15	25.92	735.50	722.73	NM
SA-85 (CB-85)	30	736.37	8.56	9.68	727.81	726.69	NM
Shallow Bedrock Wells							
SBP-01	157	758.17	68.78	81.66	689.39	676.51	NM
SBP-02	140	749.40	65.42	74.18	683.98	675.22	NM
SBP-03	102	744.41	57.15	69.14	687.26	675.27	NM
SBP-04	148	761.30	71.76	82.03	689.54	679.27	NM
SBP-05	140	755.88	67.70	80.39	688.18	675.49	NM
West End Landfill Wells							
WEL-01	33	778.80	12.89	22.72	765.91	756.08	34.64
WEL-02	35	775.35	10.98	24.11	764.37	751.24	NM
WEL-03	35	771.73	11.60	25.56	760.13	746.17	NM
WEL-04	51	765.94	28.95	31.19	736.99	734.75	51.10
Monitoring Wells							
MW-01A	56	884.49	Dry	Dry	Dry	Dry	43.29
MW-01B	63	881.59	30.26	40.96	851.33	840.63	63.75
MW-07	24	744.18	12.53	14.47	731.65	729.71	NM
MW-08	27	746.80	10.58	13.03	736.22	733.77	30.62
MW-09A	33	751.02	17.49	25.11	733.53	725.91	36.19

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TABLE 4
GROUNDWATER ELEVATION MEASUREMENTS
May and October 2020

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Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Total Boring Depth (ft bgs)	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)		Water Level Elevation (ft msl)		Measured Total Depth (ft btoc)
			May 2020 (Note 2)	October 2020 (Note 3)	May 2020	October 2020	October 2020 (Note 3)
Monitoring Wells (continued)							
MW-11	29	783.74	16.11	26.90	767.63	756.84	NM
MW-11A	114	784.13	87.24	96.02	696.89	688.11	112.34
MW-12	50	785.77	6.56	21.26	779.21	764.51	NM
MW-12A	112	785.69	89.78	98.16	695.91	687.53	115.29
MW-13	50	782.24	20.69	Dry	761.55	Dry	28.83
MW-13A	110	782.01	86.27	95.56	695.74	686.45	115.21
MW-14	28	751.30	10.83	14.85	740.47	736.45	26.69
MW-15	25	756.19	11.78	12.39	744.41	743.80	NM - pump stuck
MW-16	68	755.70	25.18	27.84	730.52	727.86	70.59
MW-20A	24	752.90	8.74	9.51	744.16	743.39	25.57
Piezometers							
PZ-08	49.9	750.51	25.10	27.04	725.41	723.47	NM
PZ-09	55	749.71	7.28	7.16	742.43	742.55	NM
PZ-10	55	756.06	19.82	22.84	736.24	733.22	NM
PZ-11	50	750.71	13.37	24.72	737.34	725.99	NM
RFI Piezometers							
PZR-01	60	806.91	54.02	56.10	752.89	750.81	NM
PZR-02	60	805.86	49.98	53.90	755.88	751.96	NM
PZR-03	61	805.05	51.14	54.15	753.91	750.90	NM
PZR-04	60	803.94	52.56	54.49	751.38	749.45	NM
PZR-05	46	755.73	11.38	14.11	744.35	741.62	NM
PZR-06	46	757.09	11.14	12.59	745.95	744.50	NM
SSSMA Wells							
NW-1	54	827.40	27.55	28.30	799.85	799.10	43.28
SW-1	52	902.95	15.97	23.90	886.98	879.05	54.71
Other Wells							
DOP-1	300	747.49	55.57	67.99	691.92	679.50	NM
DW-01	96	753.88	NM	NM	NM	NM	NM

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TABLE 4
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Well ID	Total Boring Depth (ft bgs)	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)		Water Level Elevation (ft msl)		Measured Total Depth (ft btoc)
			May 2020 (Note 2)	October 2020 (Note 3)	May 2020	October 2020	October 2020 (Note 3)
Other Wells (continued)							
CMW-1	28.5	720.40	8.08	9.07	712.32	711.33	31.09
CMW-2	22.5	716.69	10.67	11.57	706.02	705.12	25.24
CMW-3	27.0	710.22	11.88	16.21	698.34	694.01	30.31
East SSSMA	15.0	829.70	10.49	14.54	819.21	815.16	17.96
West SSSMA	15.3	827.90	13.38	17.69	814.52	810.21	18.16
T Wells							
T-01	45	732.72	29.14	35.04	703.58	697.68	41.13
T-02	44	751.13	18.43	19.17	732.70	731.96	46.22
T-03	25	747.09	10.84	17.75	736.25	729.34	26.14
T-04	25	743.28	10.45	11.20	732.83	732.08	26.28
T-05	145	767.16	85.92	91.97	681.24	675.19	NM
T-06	150	761.96	76.85	82.96	685.11	679.00	127.63
T-09	37	745.46	14.74	19.82	730.72	725.64	38.78
T-10	35	740.20	16.15	20.92	724.05	719.28	39.17
T-18	28	762.78	4.68	4.61	758.10	758.17	26.60
T-19	39	758.51	17.00	20.26	741.51	738.25	41.98
T-20	40	731.61	10.27	8.19	721.34	723.42	37.41
RFI Observation Wells							
OWR-01D	65	739.59	43.34	51.39	696.25	688.20	NM
OWR-01S	35	738.89	13.14	14.66	725.75	724.23	37.11
OWR-02D	110	756.99	68.51	81.40	688.48	675.59	NM
OWR-02S	35	757.46	7.54	9.69	749.92	747.77	38.13
OWR-03D	65	759.76	Dry	Dry	Dry	Dry	62.05
OWR-03S	35	760.48	10.70	9.85	749.78	750.63	37.23
OWR-04D	80	746.03	57.94	70.01	688.09	676.02	NM
OWR-05D	68	804.93	49.33	53.05	755.60	751.88	NM
OWR-07D	65	774.49	41.27	58.01	733.22	716.48	NM

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TABLE 4
GROUNDWATER ELEVATION MEASUREMENTS
May and October 2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Total Boring Depth (ft bgs)	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)		Water Level Elevation (ft msl)		Measured Total Depth (ft btoc)
			May 2020 (Note 2)	October 2020 (Note 3)	May 2020	October 2020	October 2020 (Note 3)
RFI Observation Wells (continued)							
OWR-08S	35	755.17	14.15	13.43	741.02	741.74	NM
OWR-09S	50	753.09	30.51	43.90	722.58	709.19	52.49
OWR-10	49	769.95	16.70	22.96	753.25	746.99	55.54
OWR-11	35	744.26	9.12	9.82	735.14	734.44	37.45
OWR-12	37	763.20	16.54	16.29	746.66	746.91	39.86
OWR-13	36	769.45	16.44	22.46	753.01	746.99	38.87
OWR-14D	81	782.11	66.25	73.06	715.86	709.05	82.15
OWR-15D	64	781.44	14.18	17.91	767.26	763.53	66.89
Interceptor Wells							
IW-01	26	821.18	9.57	3.78	811.61	817.40	26.99
IW-02	25	815.27	22.01	22.29	793.26	792.98	26.35
IW-03	25	810.59	12.68	16.05	797.91	794.54	31.23
IW-04	25	799.88	6.06	9.92	793.82	789.96	26.35
IW-05	68	805.46	56.35	57.54	749.11	747.92	64.22
IW-06	68	803.84	48.03	51.93	755.81	751.91	54.75
IW-07	40	794.63	27.63	Dry	767.00	Dry	35.57
IW-08	39.5	798.02	32.17	32.68	765.85	765.34	39.58
IW-09	50	801.03	46.79	Dry	754.24	Dry	49.05
IW-10	68	801.93	56.90	55.51	745.03	746.42	64.29
IW-11	68	804.62	59.72	59.56	744.90	745.06	66.96
IW-12	50	797.86	43.34	44.79	754.52	753.07	51.78
IW-13	50	795.74	36.42	36.24	759.32	759.50	44.59
IW-14A	49.4	746.70	43.14	47.67	703.56	699.03	48.54
IW-15	45	756.73	8.71	9.81	748.02	746.92	38.35
IW-16	50	746.82	37.13	37.02	709.69	709.80	45.24
IW-17	50	746.65	43.42	42.95	703.23	703.70	47.90
IW-18	50	748.63	26.12	26.36	722.51	722.27	47.97

GSI ENVIRONMENTAL

TABLE 4
GROUNDWATER ELEVATION MEASUREMENTS
May and October 2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Total Boring Depth (ft bgs)	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)		Water Level Elevation (ft msl)		Measured Total Depth (ft btoc)
			May 2020 (Note 2)	October 2020 (Note 3)	May 2020	October 2020	October 2020 (Note 3)
Interceptor Wells (Continued)							
IW-19	50	749.31	31.23	30.16	718.08	719.15	48.49
IW-20	50	750.70	29.00	18.35	721.70	732.35	48.69
IW-21	50	752.45	35.23	36.10	717.22	716.35	49.98
IW-22	39.9	743.23	29.75	30.05	713.48	713.18	36.38
IW-23	50	745.20	39.22	39.23	705.98	705.97	46.29
IW-24	40	745.86	9.40	9.75	736.46	736.11	36.26
IW-25	40	751.96	32.36	31.96	719.60	720.00	35.92
IW-26	35	731.90	25.87	24.99	706.03	706.91	28.47
IW-27	35	731.90	27.20	28.30	704.70	703.60	29.20
IW-28	38	726.70	33.71	33.47	692.99	693.23	40.31
IW-29	38	726.70	31.31	33.00	695.39	693.70	40.36

Notes:
1. Well locations are shown on Figure 2.
2. May 2020 depths to water measured on 11-13 May 2020.
3. October 2020 depths to water and total depths measured on 19-21 October 2020.
4. ft bgs = Feet below ground surface
   ft btoc = Feet below top of casing
   ft msl = Feet above mean sea level
   NM = Not measured
   P&A = Well has been plugged and abandoned
   RFI = Resource Conservation Recovery Act (RCRA) Facility Investigation
   SSSMA = South Staging and Soil Management Area

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TABLE 5
RESULTS OF GROUNDWATER TESTING: DETECTED ANALYTES
May and October 2020 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

					RCRA Background Well		*RCRA Groundwater Detection Monitoring*					
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				EFFLUENT	MW-01B	MW-01B	MW-11A	MW-11A	MW-12A	MW-12A	MW-13A	MW-13A
Sample Date:		**RCRA**	**CERCLA**	5/18/2020	5/16/2020	10/21/2020	5/16/2020	10/22/2020	5/16/2020	10/22/2020	5/15/2020	10/22/2020
Filtered:		**Concentration**	**Remediation**	No	No	No	No	No	No	No	No	No
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N	N	N	N
Sample ID:				Purge Water	MW-01B	MW-01 B	MW-11A	MW-11A	MW-12A	MW-12A	MW-13A	MW-13A
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B												
1,2,4-Trichlorobenzene	120-82-1	*--*	***70***	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	*--*	-	<1	<1	-	-	-	-	-	-
Trichloroethylene	79-01-6	*--*	***5***	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D and 8270D SIM												
1,2-Dichlorobenzene	95-50-1	***612***	*--*	-	<1 J	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	***77***	*--*	-	<1 J	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	-	<25 J	<25 J	<25	<25 J	<25	<25	<25	<25
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	-	<10 J	<10 J	<10	<10 J	10	<10	<10	<10
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A												
Aroclor 1221	11104-28-2	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Method 680												
Dichlorobiphenyl	25512-42-9	*--*	*--*	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	*--*	*--*	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	*--*	*--*	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	*--*	*--*	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	*--*	*--*	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	*--*	*--*	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	*--*	*--*	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	*--*	*--*	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	*--*	*--*	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B												
Parathion	56-38-2	***75***	***85***	-	<1 R	<1	<1	<1	<1	<1	<1	<1
Metals by Methods 6010C and 7470A												
Cobalt	7440-48-4	***694***	***73***	-	<10	<10	-	-	-	-	-	-
Manganese	7439-96-5	*--*	***880***	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	***2***	***2***	-	<0.2	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A is required for CERCLA. Concentrations of 1,2,4-Trichlorobenzene compared to CERCLA Remediation Goals.
3. J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.

Dup = Duplicate sample
N = Original sample
PCBs = Polychlorinated biphenyls
SIM = Selected ion monitoring

SVOCs = Semi-volatile organic compound
VOCs = Volatile organic compound
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
RCRA = Resource Conservation and Recovery Act

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TABLE 5
RESULTS OF GROUNDWATER TESTING: DETECTED ANALYTES
May and October 2020 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring								
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-08	MW-09A	MW-14	MW-15	MW-15	MW-15	MW-16	MW-16	MW-16
Sample Date:		**RCRA**	**CERCLA**	5/18/2020	5/18/2020	5/18/2020	5/13/2020	5/13/2020	10/22/2020	5/13/2020	5/13/2020	10/21/2020
Filtered:		**Concentration**	**Remediation**	No	No	No	No	Yes	No	No	Yes	No
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N	N	N	N
Sample ID:				MW-08	MW-09A	MW-14	MW-15	MW-15 F	MW-15	MW-16	MW-16 F	MW-16
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B												
1,2,4-Trichlorobenzene	120-82-1	*--*	***70***	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	*--*	<1	<1	<1	<1	-	<1	<1	-	<1
Trichloroethylene	79-01-6	*--*	***5***	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D and 8270D SIM												
1,2-Dichlorobenzene	95-50-1	***612***	*--*	<1	<1 J	<1	<1	-	-	<1	-	-
1,4-Dichlorobenzene	106-46-7	***77***	*--*	<1	<1 J	<1	<1	-	-	<1	-	-
4-Nitrophenol	100-02-7	***128***	***125***	<25	<25 J	<25	<25	-	<25	65	-	44 J
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	<10	<10 J	<10	<10	-	<10	47	-	32 J
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A												
Aroclor 1221	11104-28-2	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.92
Aroclor 1248	12672-29-6	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Aroclor 1254	11097-69-1	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.53
Aroclor 1260	11096-82-5	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.58
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.2
PCBs, Homolog Specific by Method 680												
Dichlorobiphenyl	25512-42-9	*--*	*--*	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	*--*	*--*	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	*--*	*--*	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	*--*	*--*	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	*--*	*--*	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	*--*	*--*	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	*--*	*--*	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	*--*	*--*	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	*--*	*--*	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B												
Parathion	56-38-2	***75***	***85***	<1	<1 J	1.8 J	<1	-	<1	<1	-	<1 J
Metals by Methods 6010C and 7470A												
Cobalt	7440-48-4	***694***	***73***	<10	<10	<10	<10	<10	<10	<10	<10	<10
Manganese	7439-96-5	*--*	***880***	-	-	<10	-	-	-	-	-	-
Mercury	7439-97-6	***2***	***2***	<0.2	<0.2	<0.2	<0.2	<0.2	-	0.26	<0.2	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A is required for CERCLA. Concentrations of 1,2,4-Trichlorobenzene compared to CERCLA Remediation Goals.
3. J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE 5
RESULTS OF GROUNDWATER TESTING: DETECTED ANALYTES
May and October 2020 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring							
Matrix:		**RCRA Concentration Limits**	**CERCLA Remediation Goals**	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	OW-06A	OW-08A	OW-08A
Sample Date:				5/13/2020	5/13/2020	5/13/2020	10/21/2020	10/21/2020	5/18/2020	5/15/2020	5/15/2020
Filtered:				No	No	Yes	No	No	No	No	Yes
Sample Type:				N	Dup	N	N	Dup	N	N	N
Sample ID:				MW-20A	FIELD DUPLICATE 1	MW-20A F	MW-20 A	Duplicate	OW-06A	OW-08A	OW-08A F
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B											
1,2,4-Trichlorobenzene	120-82-1	*--*	***70***	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	*--*	2.3	2	-	3.9	4	<1	<1	-
Trichloroethylene	79-01-6	*--*	***5***	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D and 8270D SIM											
1,2-Dichlorobenzene	95-50-1	***612***	*--*	2 J	2.9 J	-	-	-	<1	<1	-
1,4-Dichlorobenzene	106-46-7	***77***	*--*	1.2 J	1.4 J	-	-	-	<1	<1	-
4-Nitrophenol	100-02-7	***128***	***125***	<25	<25	-	<25 J	<25 J	<25	<25	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	37	52	-	34 J	33 J	<10	<10	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	8.5	11	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A											
Aroclor 1221	11104-28-2	*--*	*--*	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	*--*	*--*	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	5.7 J	<0.5
Aroclor 1254	11097-69-1	*--*	*--*	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	*--*	*--*	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	5.7 J	<0.5
PCBs, Homolog Specific by Method 680											
Dichlorobiphenyl	25512-42-9	*--*	*--*	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	*--*	*--*	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	*--*	*--*	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	*--*	*--*	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	*--*	*--*	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	*--*	*--*	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	*--*	*--*	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	*--*	*--*	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	*--*	*--*	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B											
Parathion	56-38-2	***75***	***85***	<1	<1	-	<1	<1	<1	<1	-
Metals by Methods 6010C and 7470A											
Cobalt	7440-48-4	***694***	***73***	<10	<10	-	<10	<10	<10	<10	<10
Manganese	7439-96-5	*--*	***880***	-	-	-	-	-	-	<10	<10
Mercury	7439-97-6	***2***	***2***	<0.2 J	<0.2 J	-	-	-	<0.2	<0.2	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A is required for CERCLA. Concentrations of 1,2,4-Trichlorobenzene compared to CERCLA Remediation Goals.
3. J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
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   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
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TABLE 5
RESULTS OF GROUNDWATER TESTING: DETECTED ANALYTES
May and October 2020 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring							
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OW-15	OW-15	OW-16A	OW-16A	OW-21A	OW-21A	OW-22	OW-22
Sample Date:		**RCRA**	**CERCLA**	5/13/2020	5/13/2020	5/13/2020	5/13/2020	5/16/2020	5/16/2020	5/16/2020	5/16/2020
Filtered:		**Concentration**	**Remediation**	No	Yes	No	Yes	No	Yes	No	Yes
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N	N	N
Sample ID:				OW-15	OW-15 F	OW-16A	OW-16A F	OW-21A	OW-21A F	OW-22	OW-22 F
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B											
1,2,4-Trichlorobenzene	120-82-1	*--*	***70***	-	-	350	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	*--*	<1	-	<1.3	-	14	-	<1	-
Trichloroethylene	79-01-6	*--*	***5***	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D and 8270D SIM											
1,2-Dichlorobenzene	95-50-1	***612***	*--*	<1	-	1.7 J	-	13	-	<1	-
1,4-Dichlorobenzene	106-46-7	***77***	*--*	<1	-	1.1 J	-	4 J	-	<1	-
4-Nitrophenol	100-02-7	***128***	***125***	<25	-	<25	-	35000	-	<25	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	<10	-	<10	-	310	-	<10	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A											
Aroclor 1221	11104-28-2	*--*	*--*	2.3	<0.5	3.7	<0.5 J	<0.92	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	*--*	*--*	<0.5	<0.5	13	<0.5 J	35	<0.5	1.1 J	<0.5
Aroclor 1254	11097-69-1	*--*	*--*	<0.5	<0.5	8.3	<0.5 J	<0.53	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	*--*	*--*	<0.5	<0.5	<0.5	<0.5 J	<0.58	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	2.3	<0.5	25	<0.5 J	35	<0.5	1.1 J	<0.5
PCBs, Homolog Specific by Method 680											
Dichlorobiphenyl	25512-42-9	*--*	*--*	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	*--*	*--*	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	*--*	*--*	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	*--*	*--*	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	*--*	*--*	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	*--*	*--*	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	*--*	*--*	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	*--*	*--*	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	*--*	*--*	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B											
Parathion	56-38-2	***75***	***85***	<1	-	23	-	4900 J	-	<1	-
Metals by Methods 6010C and 7470A											
Cobalt	7440-48-4	***694***	***73***	<10	<10	41	41	28	30	<10	<10
Manganese	7439-96-5	*--*	***880***	-	-	850	850	700	760	-	-
Mercury	7439-97-6	***2***	***2***	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A is required for CERCLA. Concentrations of 1,2,4-Trichlorobenzene compared to CERCLA Remediation Goals.
3. J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.

Dup = Duplicate sample
N = Original sample
PCBs = Polychlorinated biphenyls
SIM = Selected ion monitoring

SVOCs = Semi-volatile organic compound
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TABLE 5
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May and October 2020 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action								
Matrix:		**RCRA Concentration Limits**	**CERCLA Remediation Goals**	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OW-10	OW-10	OW-10	OW-10	OWR-03S	OWR-11	OWR-11	OWR-13	OWR-13
Sample Date:				5/15/2020	5/15/2020	5/15/2020	5/15/2020	5/14/2020	5/15/2020	5/15/2020	5/14/2020	5/14/2020
Filtered:				No	No	Yes	Yes	No	No	Yes	No	Yes
Sample Type:				N	Dup	N	Dup	N	N	N	N	N
Sample ID:				OW-10	Field Duplicate 4	OW-10 F	Field Duplicate 4 F	OWR-03S	OWR-11	OWR-11 F	OWR-13	OWR-13 F
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B												
1,2,4-Trichlorobenzene	120-82-1	*--*	*70*	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	*102*	*--*	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	*--*	*5*	3.5 J	4.8 J	-	-	-	-	-	-	-
SVOCs by Methods 8270D and 8270D SIM												
1,2-Dichlorobenzene	95-50-1	*612*	*--*	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	*77*	*--*	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	*128*	*125*	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	*102*	*310*	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	*1*	*1*	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A												
Aroclor 1221	11104-28-2	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	180	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	43	<0.5
Aroclor 1260	11096-82-5	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.4	<0.5
Total PCBs	1336-36-3	*0.5*	*0.5*	<0.5	<0.5	<0.5	<0.5	<0.5	180	<0.5	48.4	<0.5
PCBs, Homolog Specific by Method 680												
Dichlorobiphenyl	25512-42-9	*--*	*--*	-	-	-	-	-	-	-	<0.095	<0.095
Heptachlorobiphenyl	28655-71-2	*--*	*--*	-	-	-	-	-	-	-	2.6	<0.29
Hexachlorobiphenyl	26601-64-9	*--*	*--*	-	-	-	-	-	-	-	5.3	<0.19
Monochlorobiphenyl	27323-18-8	*--*	*--*	-	-	-	-	-	-	-	<0.095	<0.095
Nonachlorobiphenyl	53742-07-7	*--*	*--*	-	-	-	-	-	-	-	0.51	<0.48
Octachlorobiphenyls	31472-83-0	*--*	*--*	-	-	-	-	-	-	-	1.3	<0.29
Pentachlorobiphenyl	25429-29-2	*--*	*--*	-	-	-	-	-	-	-	21	<0.19
Tetrachlorobiphenyl	26914-33-0	*--*	*--*	-	-	-	-	-	-	-	27	<0.19
Trichlorobiphenyl	25323-68-6	*--*	*--*	-	-	-	-	-	-	-	0.81	<0.095
Total PCBs	1336-36-3	*0.5*	*0.5*	-	-	-	-	-	-	-	58.52	<0.48
Pesticides by Methods 8141B												
Parathion	56-38-2	*75*	*85*	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C and 7470A												
Cobalt	7440-48-4	*694*	*73*	-	-	-	-	-	160	160	-	-
Manganese	7439-96-5	*--*	*880*	1300	1300	1300	1200	-	3200	3300	-	-
Mercury	7439-97-6	*2*	*2*	5.1	4.7	4.4	3.8	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A is required for CERCLA. Concentrations of 1,2,4-Trichlorobenzene compared to CERCLA Remediation Goals.
3. J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.

Dup = Duplicate sample
N = Original sample
PCBs = Polychlorinated biphenyls
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TABLE 5
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May and October 2020 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action							
Matrix:		**RCRA**	**CERCLA**	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:		**Concentration**	**Remediation**	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-15D	OWR-15D	T-04	T-04
Sample Date:		**Limits**	**Goals**	5/15/2020	5/15/2020	5/15/2020	5/15/2020	5/15/2020	5/15/2020	5/16/2020	5/16/2020
Filtered:				No	No	Yes	Yes	No	Yes	No	Yes
Sample Type:				N	Dup	N	Dup	N	N	N	N
Sample ID:				OWR-14D	FIELD DUPLICATE 2	OWR-14D F	Field Duplicate 2 F	OWR-15D	OWR-15D F	T-04	T-04F
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B											
1,2,4-Trichlorobenzene	120-82-1	*--*	***70***	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	*--*	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	*--*	***5***	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D and 8270D SIM											
1,2-Dichlorobenzene	95-50-1	***612***	*--*	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	***77***	*--*	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A											
Aroclor 1221	11104-28-2	*--*	*--*	<0.5	<0.5	<0.5	<0.5	38	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	*--*	*--*	<0.5 J	4 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	13	<0.5
Aroclor 1260	11096-82-5	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	4 J	<0.5	<0.5	38	<0.5	13	<0.5
PCBs, Homolog Specific by Method 680											
Dichlorobiphenyl	25512-42-9	*--*	*--*	<0.096	<0.097	<0.095	<0.095	-	-	-	-
Heptachlorobiphenyl	28655-71-2	*--*	*--*	<0.29	<0.29	<0.29	<0.29	-	-	-	-
Hexachlorobiphenyl	26601-64-9	*--*	*--*	<0.19	<0.19	<0.19	<0.19	-	-	-	-
Monochlorobiphenyl	27323-18-8	*--*	*--*	<0.096	<0.097	<0.095	<0.095	-	-	-	-
Nonachlorobiphenyl	53742-07-7	*--*	*--*	<0.48	<0.49	<0.48	<0.48	-	-	-	-
Octachlorobiphenyls	31472-83-0	*--*	*--*	<0.29	<0.29	<0.29	<0.29	-	-	-	-
Pentachlorobiphenyl	25429-29-2	*--*	*--*	0.29	0.29	<0.19	<0.19	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	*--*	*--*	0.68	0.81	<0.19	<0.19	-	-	-	-
Trichlorobiphenyl	25323-68-6	*--*	*--*	0.73	0.87	<0.095	<0.095	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	1.7	1.97	<0.48	<0.48	-	-	-	-
Pesticides by Methods 8141B											
Parathion	56-38-2	***75***	***85***	-	-	-	-	-	-	-	-
Metals by Methods 6010C and 7470A											
Cobalt	7440-48-4	***694***	***73***	-	-	-	-	-	-	-	-
Manganese	7439-96-5	*--*	***880***	25	28	<10	<10	-	-	160	92
Mercury	7439-97-6	***2***	***2***	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A is required for CERCLA. Concentrations of 1,2,4-Trichlorobenzene compared to CERCLA Remediation Goals.
3. J = Estimated concentration;
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   - = not analyzed.

Dup = Duplicate sample
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PCBs = Polychlorinated biphenyls
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Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action							
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				T-06	T-06	T-09	T-09	T-09	T-10	T-18	T-18
Sample Date:		**RCRA**	**CERCLA**	5/14/2020	5/14/2020	5/16/2020	5/16/2020	5/16/2020	5/16/2020	5/14/2020	5/14/2020
Filtered:		**Concentration**	**Remediation**	No	Yes	No	No	Yes	No	No	Yes
Sample Type:		**Limits**	**Goals**	N	N	N	Dup	N	N	N	N
Sample ID:				T-06	T-06 F	T-09	FIELD DUPLICATE 3	T-09F	T-10	T-18	T-18 F
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B											
1,2,4-Trichlorobenzene	120-82-1	*--*	*70*	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	*102*	*--*	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	*--*	*5*	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D and 8270D SIM											
1,2-Dichlorobenzene	95-50-1	*612*	*--*	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	*77*	*--*	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	*128*	*125*	-	-	<25	<25	-	<25	-	-
O,O,O-Triethylphosphorothioate	126-68-1	*102*	*310*	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	*1*	*1*	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A											
Aroclor 1221	11104-28-2	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31	<0.5
Aroclor 1248	12672-29-6	*--*	*--*	3.1	<0.5	2.7 J	<0.5 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	*--*	*--*	<0.5	<0.5	<0.5 J	0.59 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	*--*	*--*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	*0.5*	*0.5*	3.1	<0.5	2.7 J	0.59 J	<0.5	<0.5	31	<0.5
PCBs, Homolog Specific by Method 680											
Dichlorobiphenyl	25512-42-9	*--*	*--*	-	-	-	-	-	-	23	<0.097
Heptachlorobiphenyl	28655-71-2	*--*	*--*	-	-	-	-	-	-	<0.29	<0.29
Hexachlorobiphenyl	26601-64-9	*--*	*--*	-	-	-	-	-	-	<0.19	<0.19
Monochlorobiphenyl	27323-18-8	*--*	*--*	-	-	-	-	-	-	67	<0.097
Nonachlorobiphenyl	53742-07-7	*--*	*--*	-	-	-	-	-	-	<0.48	<0.49
Octachlorobiphenyls	31472-83-0	*--*	*--*	-	-	-	-	-	-	<0.29	<0.29
Pentachlorobiphenyl	25429-29-2	*--*	*--*	-	-	-	-	-	-	<0.19	<0.19
Tetrachlorobiphenyl	26914-33-0	*--*	*--*	-	-	-	-	-	-	<0.19	<0.19
Trichlorobiphenyl	25323-68-6	*--*	*--*	-	-	-	-	-	-	1.4	<0.097
Total PCBs	1336-36-3	*0.5*	*0.5*	-	-	-	-	-	-	91.4	<0.49
Pesticides by Methods 8141B											
Parathion	56-38-2	*75*	*85*	-	-	<1	<1	-	<1	-	-
Metals by Methods 6010C and 7470A											
Cobalt	7440-48-4	*694*	*73*	-	-	-	-	-	-	-	-
Manganese	7439-96-5	*--*	*880*	-	-	-	-	-	-	-	-
Mercury	7439-97-6	*2*	*2*	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A is required for CERCLA. Concentrations of 1,2,4-Trichlorobenzene compared to CERCLA Remediation Goals.
3. J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
   Dup = Duplicate sample
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   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
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May and October 2020 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
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				CERCLA Remedial Action					
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				T-20	T-20	WEL-01	WEL-01	WEL-04	WEL-04
Sample Date:		**RCRA**	**CERCLA**	5/15/2020	5/15/2020	5/15/2020	5/15/2020	5/14/2020	5/14/2020
Filtered:		**Concentration**	**Remediation**	No	Yes	No	Yes	No	Yes
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N
Sample ID:				T-20	T-20F	WEL-01	WEL-01 F	WEL-04	WEL-04 F
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B									
1,2,4-Trichlorobenzene	120-82-1	*--*	***70***	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	*--*	-	-	-	-	-	-
Trichloroethylene	79-01-6	*--*	***5***	-	-	-	-	-	-
SVOCs by Methods 8270D and 8270D SIM									
1,2-Dichlorobenzene	95-50-1	***612***	*--*	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	***77***	*--*	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A									
Aroclor 1221	11104-28-2	*--*	*--*	<0.5	-	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	*--*	*--*	1.1	-	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	*--*	*--*	<0.5	-	0.62	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	*--*	*--*	<0.5	-	<0.5	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	1.1	-	0.62	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Method 680									
Dichlorobiphenyl	25512-42-9	*--*	*--*	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	*--*	*--*	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	*--*	*--*	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	*--*	*--*	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	*--*	*--*	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	*--*	*--*	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	*--*	*--*	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	*--*	*--*	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	*--*	*--*	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-
Pesticides by Methods 8141B									
Parathion	56-38-2	***75***	***85***	-	-	-	-	-	-
Metals by Methods 6010C and 7470A									
Cobalt	7440-48-4	***694***	***73***	-	-	-	-	-	-
Manganese	7439-96-5	*--*	***880***	2900	2700	21	14	88	57
Mercury	7439-97-6	***2***	***2***	<0.2	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A is required for CERCLA. Concentrations of 1,2,4-Trichlorobenzene compared to CERCLA Remediation Goals.
3. J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

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TABLE 6
VOLUMES OF GROUNDWATER RECOVERED DURING 2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Month	WMA II Corrective Action System (note 1; gallons)	Well OW-21A Corrective Action Area (note 2; gallons)	Well OW-10 Corrective Action Area (note 3; gallons)	SWMU 1 Wells (note 4; gallons)
January	65,100	191,118	11,800	123,783
February	63,100	173,524	11,400	105,210
March	77,100	205,314	16,200	206,076
April	67,300	136,476	10,500	121,150
May	60,200	88,869	7,400	66,839
June	59,300	74,883	9,500	42,004
July	43,230	30,618	3,400	26,412
August	45,290	32,370	2,300	19,129
September	35,880	34,725	3,400	9,587
October	40,500	48,246	4,200	24,315
November	39,700	35,975	6,400	15,545
December	43,700	48,447	7,800	45,781
Total (2020)	**640,400**	**1,100,565**	**94,300**	**805,831**

Notes:
1. WMA II (New Limestone Bed) recovered groundwater volume represents flow from wells IW-16 through IW-25 and DW-01.
2. Well OW-21A Corrective Action Area recovered groundwater volume represents flow from wells IW-26 and IW-27.
3. Well OW-10 Corrective Action Area recovered groundwater volume represents flow from wells IW-14A, IW-28, and IW-29. Inspections during January/February 2021 indicated the flow meter in CTS #2 is not working properly and that IW-28 and IW-29 pump at approximately 4 gpm. These recovered volumes at OW-10, rounded to the nearest 100 gallons, are based on well run-time meter readings and a pumping rate of 4 gpm.
4. SWMU 1 recovered groundwater volume represents flow from wells IW-02, IW-05 through IW-08, and IW-10 through IW-13.
5. CTS = Carbon Treatment System
   SWMU = Solid Waste Management Unit
   WMA = Waste Management Area

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TABLE 7
MONTHLY RAINFALL 2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Month	2016	2017	2018	2019	2020
January	3.00	7.55	2.01	6.91	10.08
February	6.00	2.97	7.71	10.13	12.53
March	3.00	4.25	5.99	2.45	10.54
April	3.00	5.99	4.26	4.42	7.90
May	4.00	5.27	3.91	2.50	5.63
June	2.00	8.11	4.13	6.35	4.88
July	3.00	4.94	5.76	4.01	3.04
August	2.00	5.66	5.07	1.96	4.33
September	1.00	4.03	4.77	0.44	2.84
October	0.00	6.85	2.04	8.92	5.64
November	3.00	1.32	8.13	4.22	2.13
December	3.00	3.44	11.66	4.48	3.40
Total (inches)	**33.00**	**60.38**	**65.44**	**56.79**	**72.94**

Notes:

1. Rainfall data obtained from on-site rain gauge.
2. Monthly rainfall measured in inches.
3. For 2015 and 2016, monthly rainfall data, rounded to the nearest inch, have been taken from a previous report (Solutia, 2017a). Currently, data are recorded to the nearest 0.01 inch.

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TABLE 8
REFERENCES

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

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GSI Job No. 5739

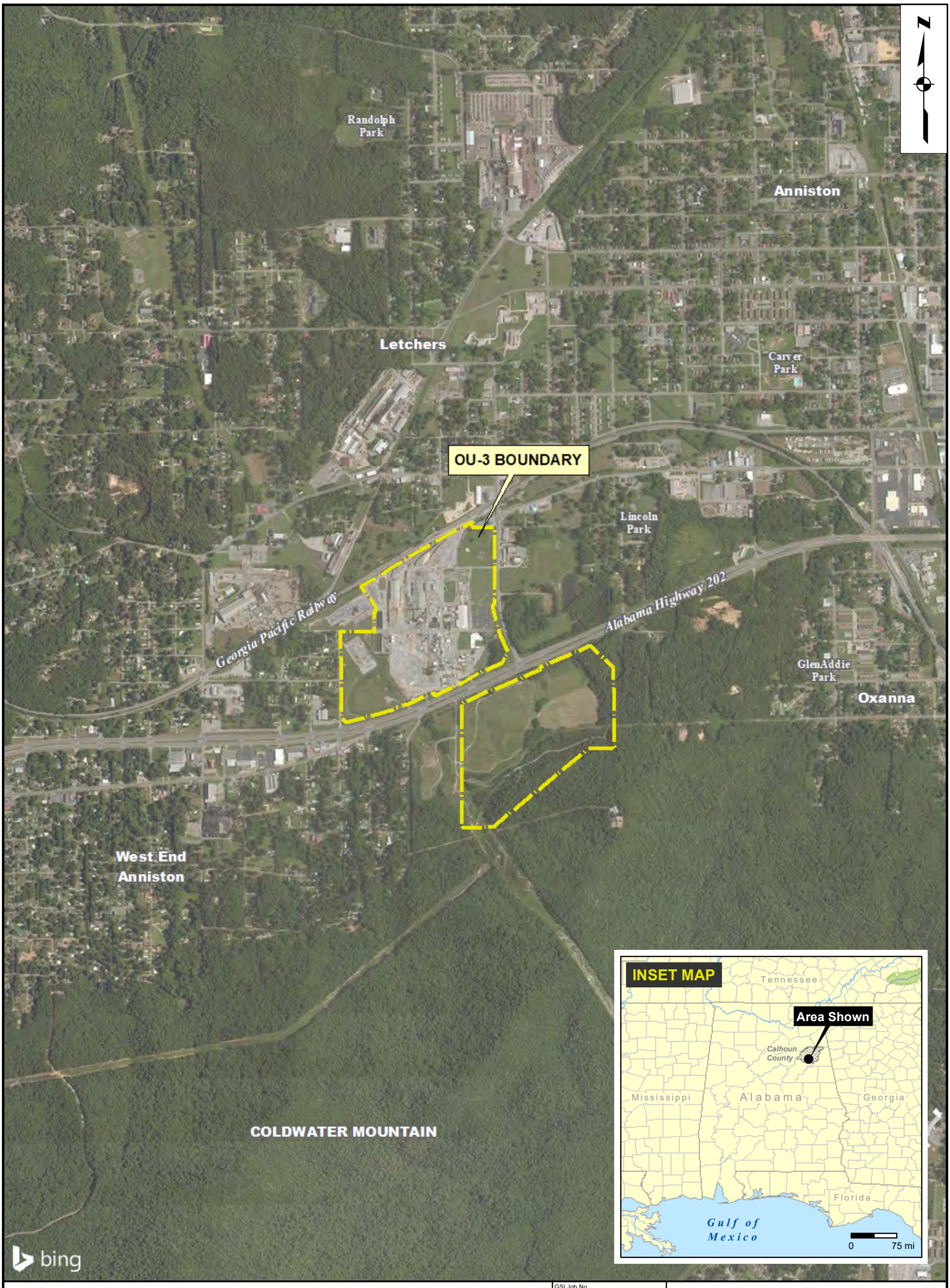
GSI ENVIRONMENTAL

2020 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia, Inc., Anniston, Alabama
RCRA Post-Closure Permit ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

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Figure 19	Results of 2020 CERCLA Performance Verification Sampling at OU-3: Metals



LEGEND

Operable Unit 3 (OU-3) boundary

Notes

1. Projected Coordinate System: NAD 1983, UTM Zone 16N (meters).
2. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 600 1,200

GSI Job No.	5739
Issued:	28-Apr-2021
Revised:	
Map ID:	001_01
Drawn By:	CDM
Reviewed By:	WBS/JA
Approved By:	TMM

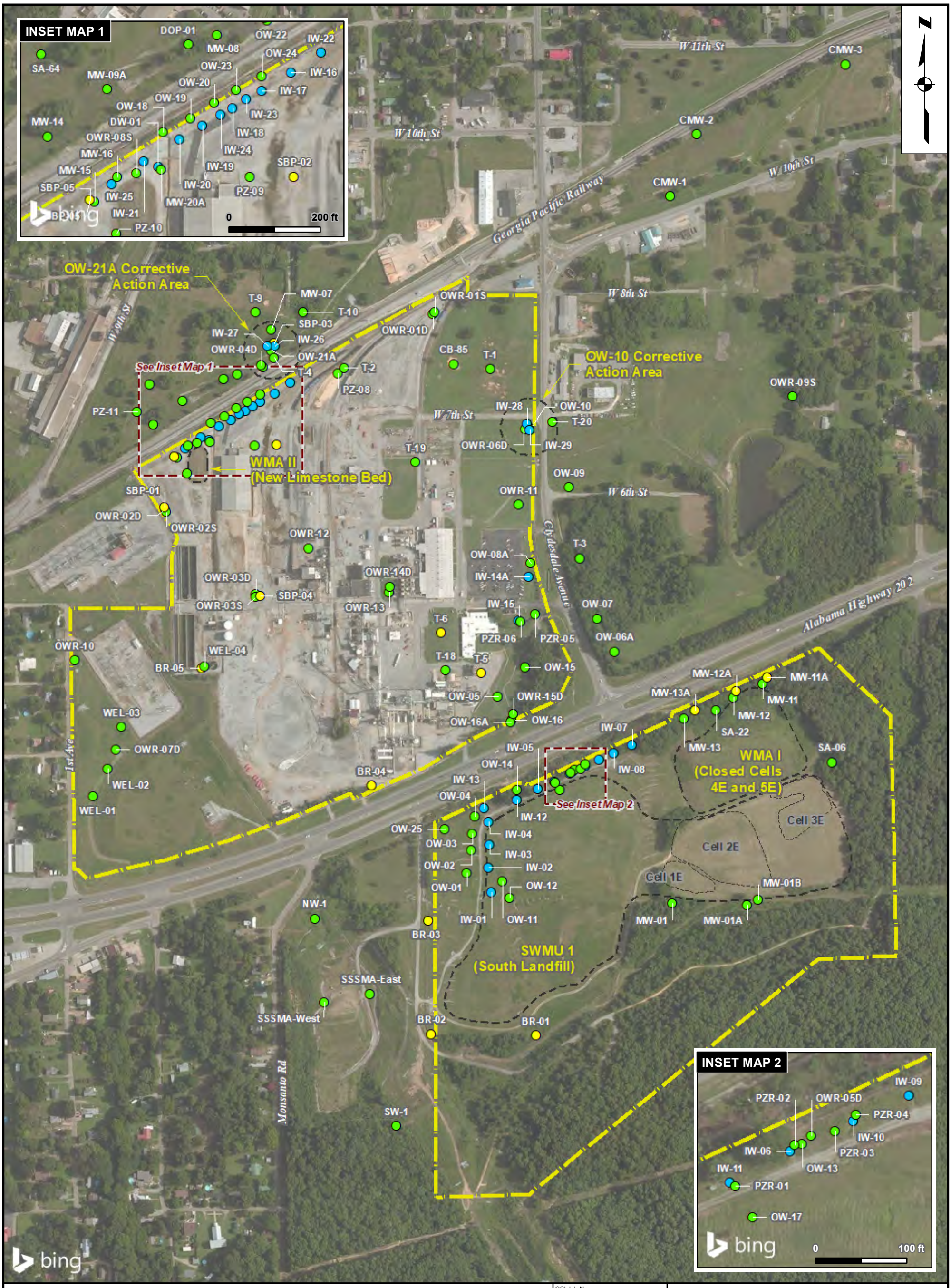
FIGURE 1

GSI ENVIRONMENTAL

SITE LOCATION MAP

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama



LEGEND

- Residuum
- Bedrock
- Interceptor
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/ CERCLA Remedial Action

Feet: 0 – 200 – 400

Notes

1. Approximate screened intervals: Residuum: 450 – 870 ft msl; Bedrock: 570 – 700 ft msl; Interceptor: 660 – 810 ft msl.
2. All wells shown are gauged for groundwater elevation on a semi-annual basis. Groundwater samples are collected and analyzed from wells specified in the RCRA Permit and the Remedial Action Performance Verification Plan.
3. Projected Coordinate System: NAD 1983, UTM Zone 16N (meters).
4. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

GSI Job No.	5739
Issued:	28-Apr-2021
Revised:	
Map ID:	001_02
Drawn By:	CDM
Reviewed By:	WBS/JA
Approved By:	TMM

FIGURE 2

GSI ENVIRONMENTAL

MONITORING WELL NETWORK

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama



LEGEND

- Residuum well
- Operable Unit 3 (OU-3) boundary
- Unit addressed by RCRA Permit (approximate boundary)
- Area addressed by CERCLA Remedial Action

Notes

1. Approximate locations of site features shown.
2. Note that Table IV.4 of RCRA permit issued 19 July 2019 indicates that SWMU 1 has been referred to EPA.
3. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

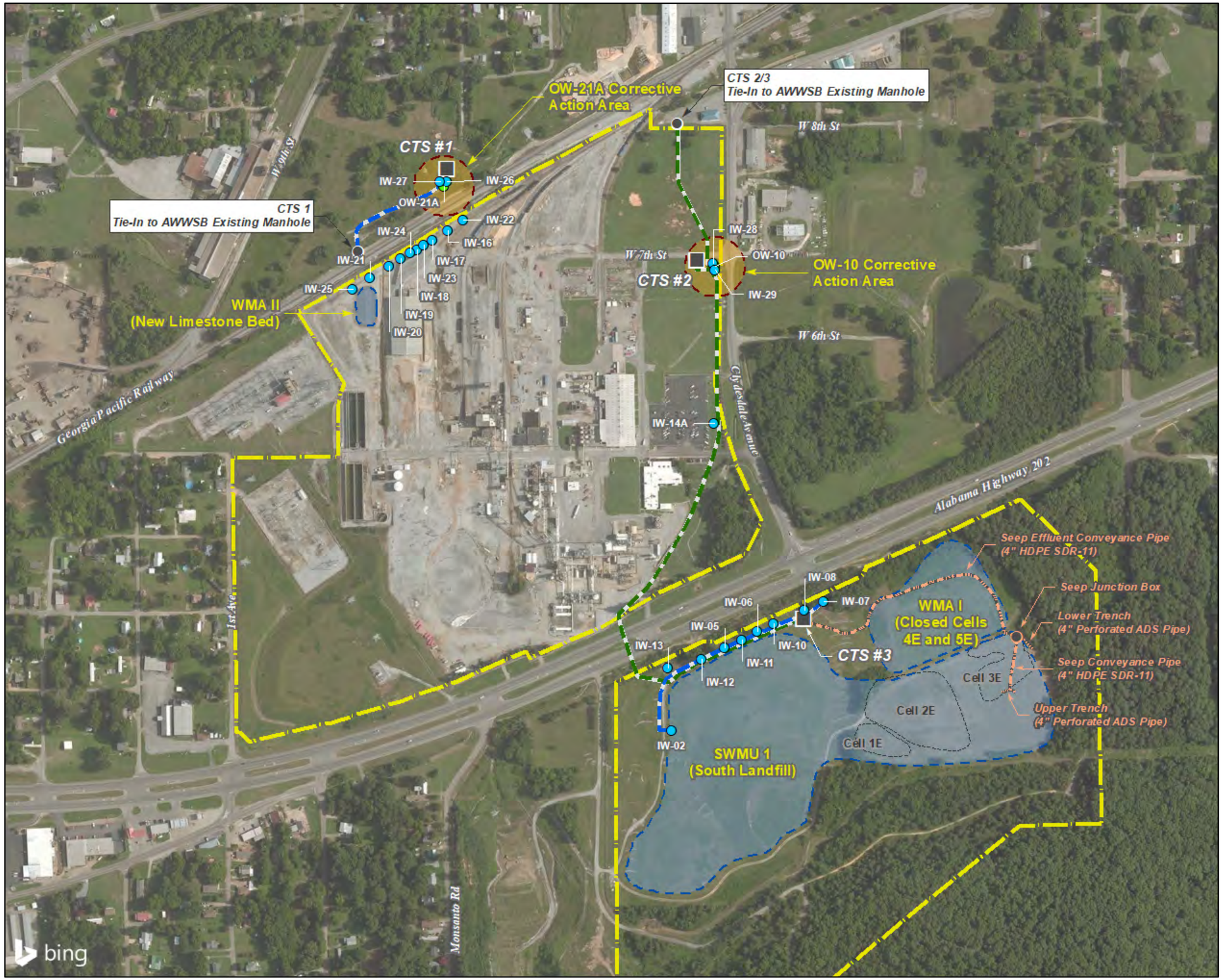
GROUNDWATER MONITORING AND CORRECTIVE ACTION AREAS

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No. 5739	Drawn By: CDM
Issued: 28-Apr-2021	Chk'd By: WBS/JA
Map ID: **001_03**	Appv'd By: TMM

FIGURE 3



N

LEGEND

- Residuum well
- Interceptor well
- 3-inch HDPE SDR-11 Pipe
- 2-inch HDPE SDR-11 Pipe
- Above Grade Piping
- Operable Unit 3 (OU-3) boundary
- Unit addressed by RCRA Permit (approximate boundary)
- Area addressed by CERCLA Remedial Action

Notes

1. Approximate locations of site features shown.
2. Note that Table IV.4 of RCRA permit issued 19 July 2019 indicates that SWMU 1 has been referred to EPA.
3. AWWSB = Anniston Water Works & Sewer Board.
4. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

CORRECTIVE ACTION SYSTEMS

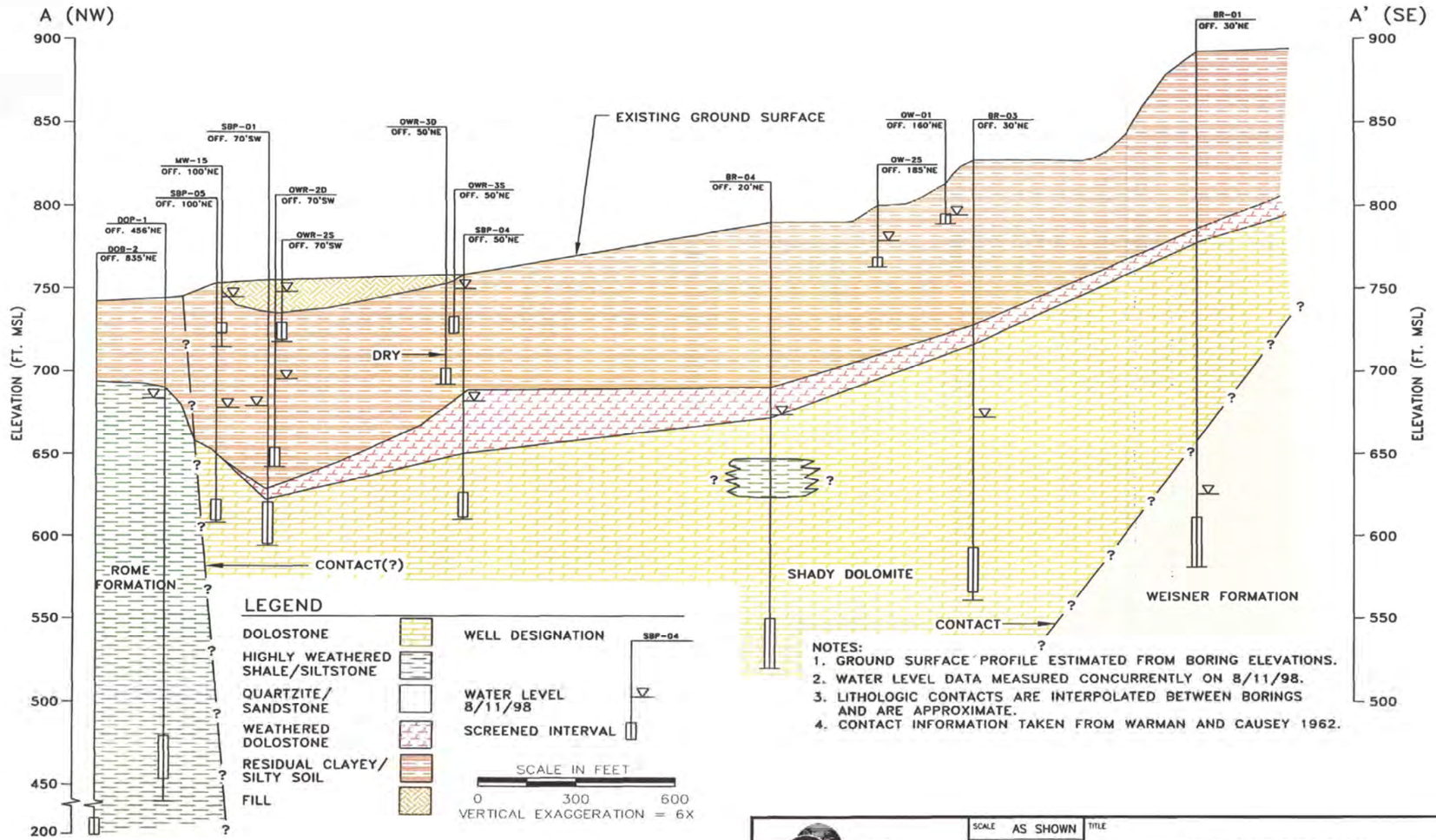
2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	5739	Drawn By:	CDM
Issued:	28-Apr-2021	Chk'd By:	WBS/JA
Map ID:	**001_04**	Appv'd By:	TMM

FIGURE 4





NOTES:
1. GROUND SURFACE PROFILE ESTIMATED FROM BORING ELEVATIONS.
2. WATER LEVEL DATA MEASURED CONCURRENTLY ON 8/11/98.
3. LITHOLOGIC CONTACTS ARE INTERPOLATED BETWEEN BORINGS AND ARE APPROXIMATE.
4. CONTACT INFORMATION TAKEN FROM WARMAN AND CAUSEY 1962.

Golder Associates, Jacksonville, Florida	SCALE: AS SHOWN	TITLE: HYDROGEOLOGIC CROSS SECTION A-A'	
	DATE: 07/06/06		
	DESIGN: DJM		
	CADD: MRM		
FILE No. 9433680C011	CHECK: 3/13/07		
PROJECT No. 943-3680 REV. 0	REVIEW: 3/13/07	SOLUTIA INC.	FIGURE C-4

Source: Solutia, Inc., 2007. "RCRA Part B Post-Closure Permit Application," ALD 004 019 048, Revision 1, Anniston Facility, Alabama, March 2007.

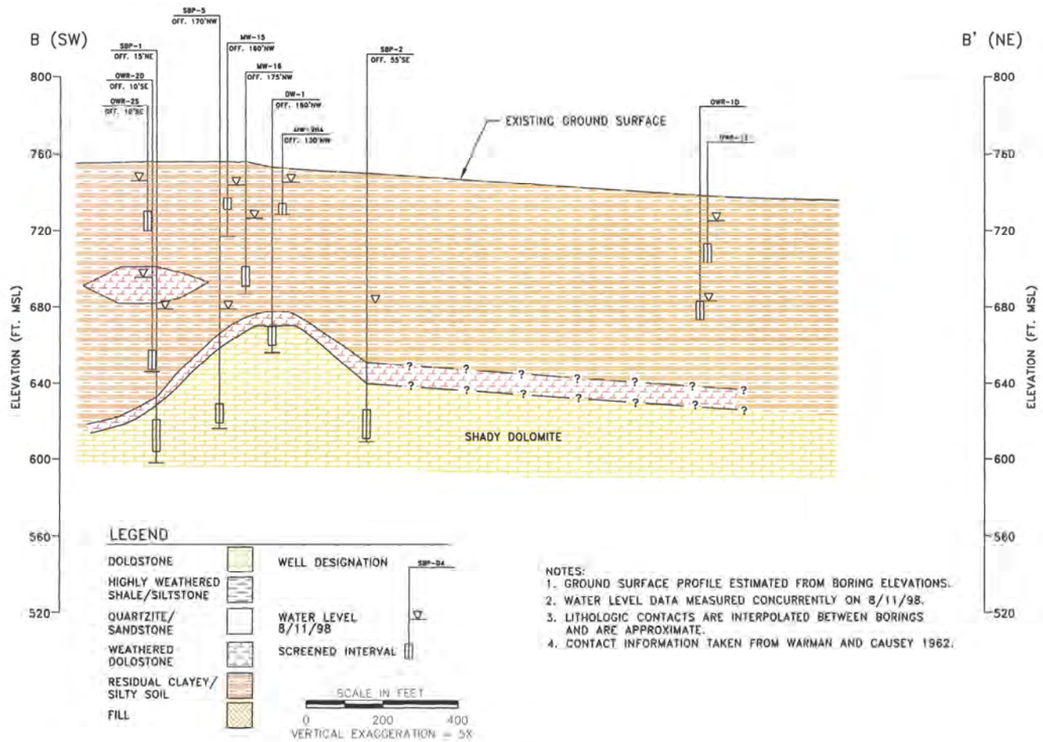
GSI ENVIRONMENTAL	GSI Job No. 5739	Drawn By: CDM	**NORTH-SOUTH CROSS-SECTION**
	Issued: 28-Apr-2021	Chk'd By: WBS	**2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report**
	Scale: As Shown	Aprv'd By: TMM	Solutia Inc.
	Map ID: **002_05**	**FIGURE 5**	Anniston, Alabama

INSET MAP



Inset Scale (ft.)

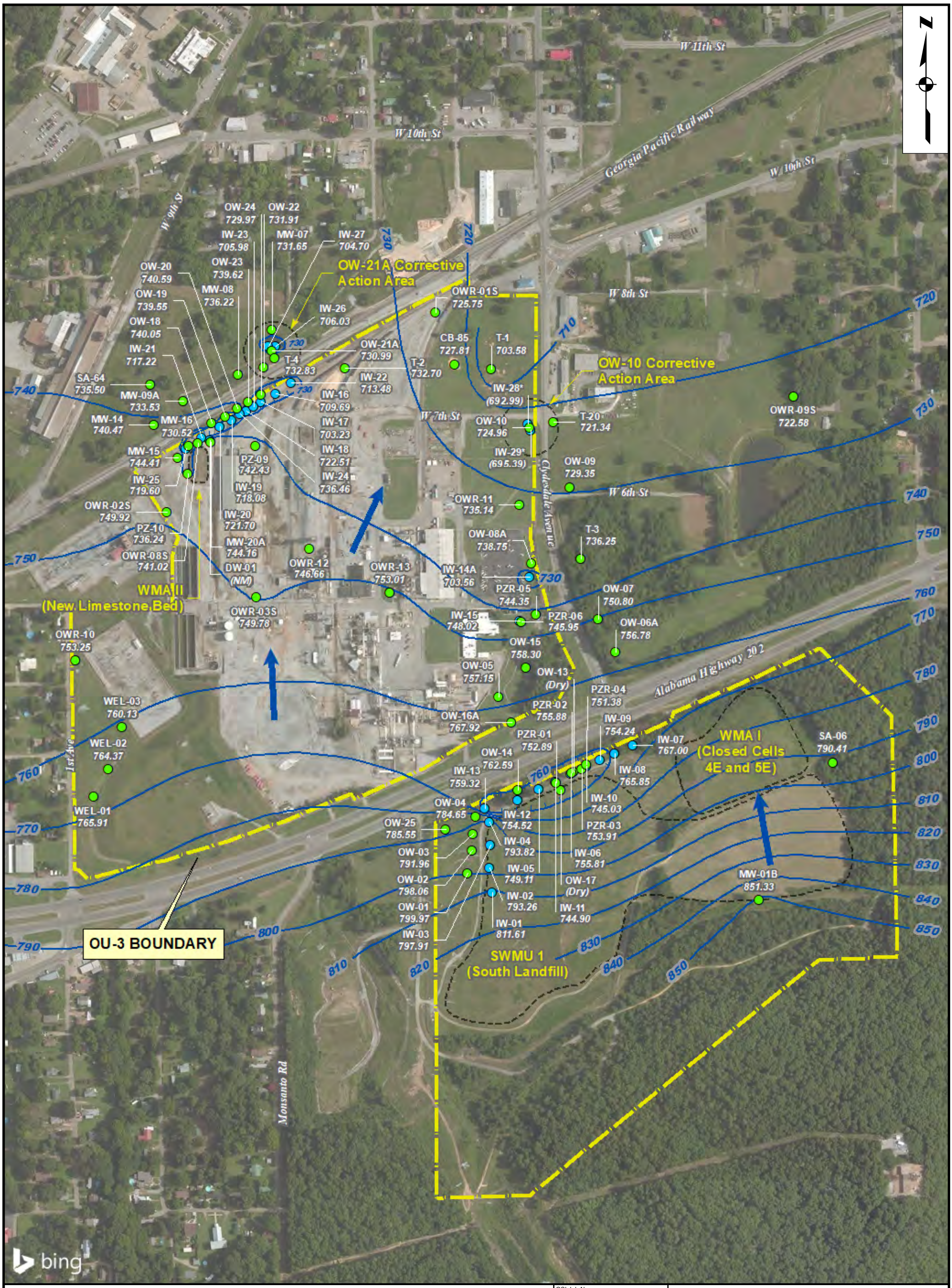
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Golder Associates Jacksonville, Florida		SCALE AS SHOWN	TITLE HYDROGEOLOGIC CROSS SECTION B-B'
		DATE 07/06/06	
		DESIGN DJM	
		CADD MRM	
FILE No. 9433680C012		CHECK LP 3/13/07	
PROJECT No. 943-3680	REV. 0	REVIEW DJM 3/13/07	SOLUTIA INC. FIGURE C-5

Source: Solutia, Inc., 2007. "RCRA Part B Post-Closure Permit Application," ALD 004 019 048, Revision 1, Anniston Facility, Alabama, March 2007.

GSI ENVIRONMENTAL	GSI Job No. 5739	Drawn By: CDM	**WEST-EAST CROSS-SECTION**
	Issued: 28-Apr-2021	Chk'd By: WBS	**2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report**
	Scale: As Shown	Aprv'd By: TMM	Solutia Inc.
	Map ID: **002_06**	**FIGURE 6**	Anniston, Alabama



LEGEND

- Shallow Residuum
- Interceptor
- (692.99) Value not used for contouring
- Operable Unit 3 (OU-3) boundary
- –760– Potentiometric surface contour (ft msl), dashed where inferred
- General groundwater flow direction

Notes

1. * = The contours depicted have been drawn to illustrate the overall flow field. Therefore, high-density contours associated with cones of depression around interceptor wells are not shown.
2. Projected Coordinate System: NAD 1983, UTM Zone 16N (meters).
3. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

GSI Job No.	5739
Issued:	28-Apr-2021
Revised:	
Map ID:	001_07
Drawn By:	CDM
Reviewed By:	WBS/JA
Approved By:	TMM

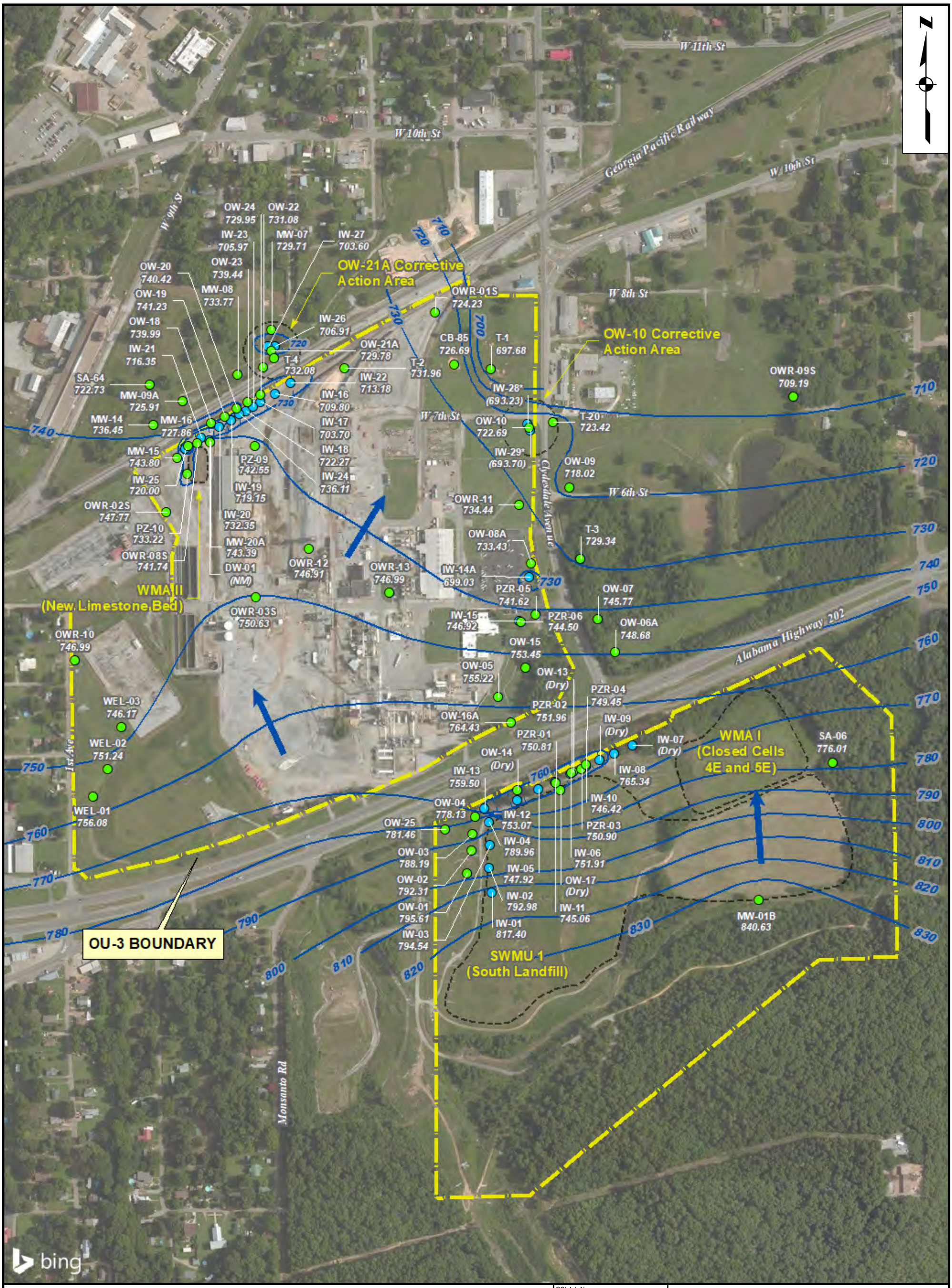
FIGURE 7a

GSI ENVIRONMENTAL

POTENTIOMETRIC SURFACE MAP: SHALLOW RESIDUUM, MAY 2020

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama



LEGEND

- Shallow Residuum
- Interceptor
- (693.23) Value not used for contouring
- Operable Unit 3 (OU-3) boundary
- –760– Potentiometric surface contour (ft msl), dashed where inferred
- General groundwater flow direction

Notes

1. * = The contours depicted have been drawn to illustrate the overall flow field. Therefore, high-density contours associated with cones of depression around interceptor wells are not shown.
2. Projected Coordinate System: NAD 1983, UTM Zone 16N (meters).
3. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

GSI Job No.	5739
Issued:	28-Apr-2021
Revised:	
Map ID:	001_07
Drawn By:	CDM
Reviewed By:	WBS/JA
Approved By:	TMM

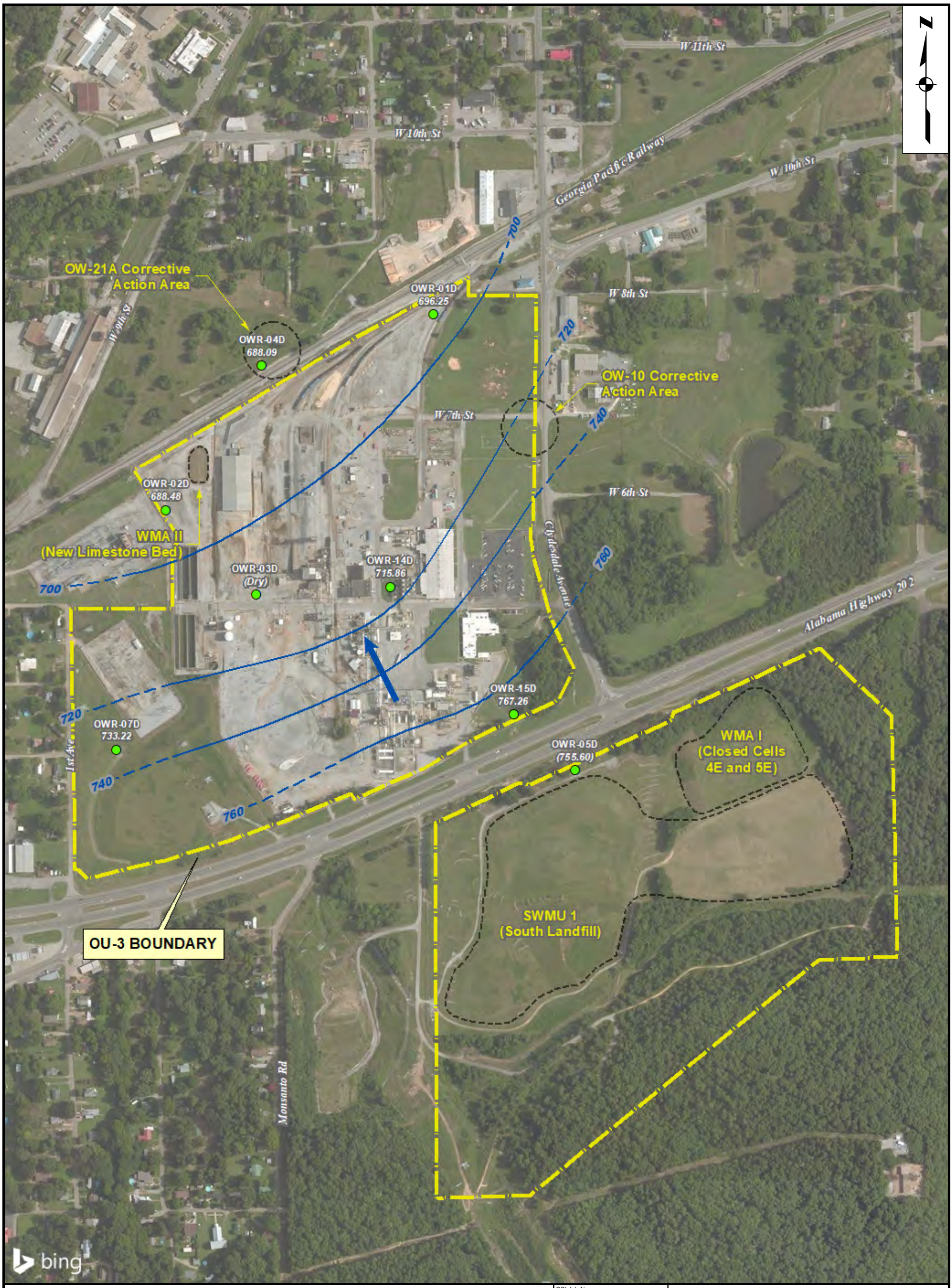
FIGURE 7b

GSI ENVIRONMENTAL

POTENTIOMETRIC SURFACE MAP: SHALLOW RESIDUUM, OCTOBER 2020

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama



LEGEND

- Deep Residuum
- (755.60) Value not used for contouring
- Operable Unit 3 (OU-3) boundary
- – 760 – Potentiometric surface contour (ft msl), dashed where inferred
- General groundwater flow direction

Notes

1. Projected Coordinate System: NAD 1983, UTM Zone 16N (meters).
2. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

GSI Job No.	5739
Issued:	28-Apr-2021
Revised:	
Map ID:	001_08
Drawn By:	CDM
Reviewed By:	WBS/JA
Approved By:	TMM

FIGURE 8a

GSI ENVIRONMENTAL

POTENTIOMETRIC SURFACE MAP: DEEP RESIDUUM, MAY 2020

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama



LEGEND

- Deep Residuum
- (751.88) Value not used for contouring
- Operable Unit 3 (OU-3) boundary
- – 760 – Potentiometric surface contour (ft msl), dashed where inferred
- General groundwater flow direction

Notes

1. Projected Coordinate System: NAD 1983, UTM Zone 16N (meters).
2. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

GSI Job No.	5739
Issued:	28-Apr-2021
Revised:	
Map ID:	001_08
Drawn By:	CDM
Reviewed By:	WBS/JA
Approved By:	TMM

FIGURE 8b

GSI ENVIRONMENTAL

POTENTIOMETRIC SURFACE MAP: DEEP RESIDUUM, OCTOBER 2020

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama



LEGEND

- Shallow Bedrock
- (683.98) Value not used for contouring
- Operable Unit 3 (OU-3) boundary
- –790– Potentiometric surface contour (ft msl), dashed where inferred
- General groundwater flow direction

Notes

1. Projected Coordinate System: NAD 1983, UTM Zone 16N (meters).
2. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

GSI Job No.	5739
Issued:	28-Apr-2021
Revised:	
Map ID:	001_09
Drawn By:	CDM
Reviewed By:	WBS/JA
Approved By:	TMM

FIGURE 9a

GSI ENVIRONMENTAL

POTENTIOMETRIC SURFACE MAP: SHALLOW BEDROCK, MAY 2020

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama



LEGEND

- Shallow Bedrock
- Potentiometric surface contour (ft msl), dashed where inferred (– 780 –)
- Operable Unit 3 (OU-3) boundary
- General groundwater flow direction

Notes

1. Projected Coordinate System: NAD 1983, UTM Zone 16N (meters).
2. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

GSI Job No.	5739
Issued:	28-Apr-2021
Revised:	
Map ID:	001_09
Drawn By:	CDM
Reviewed By:	WBS/JA
Approved By:	TMM

FIGURE 9b

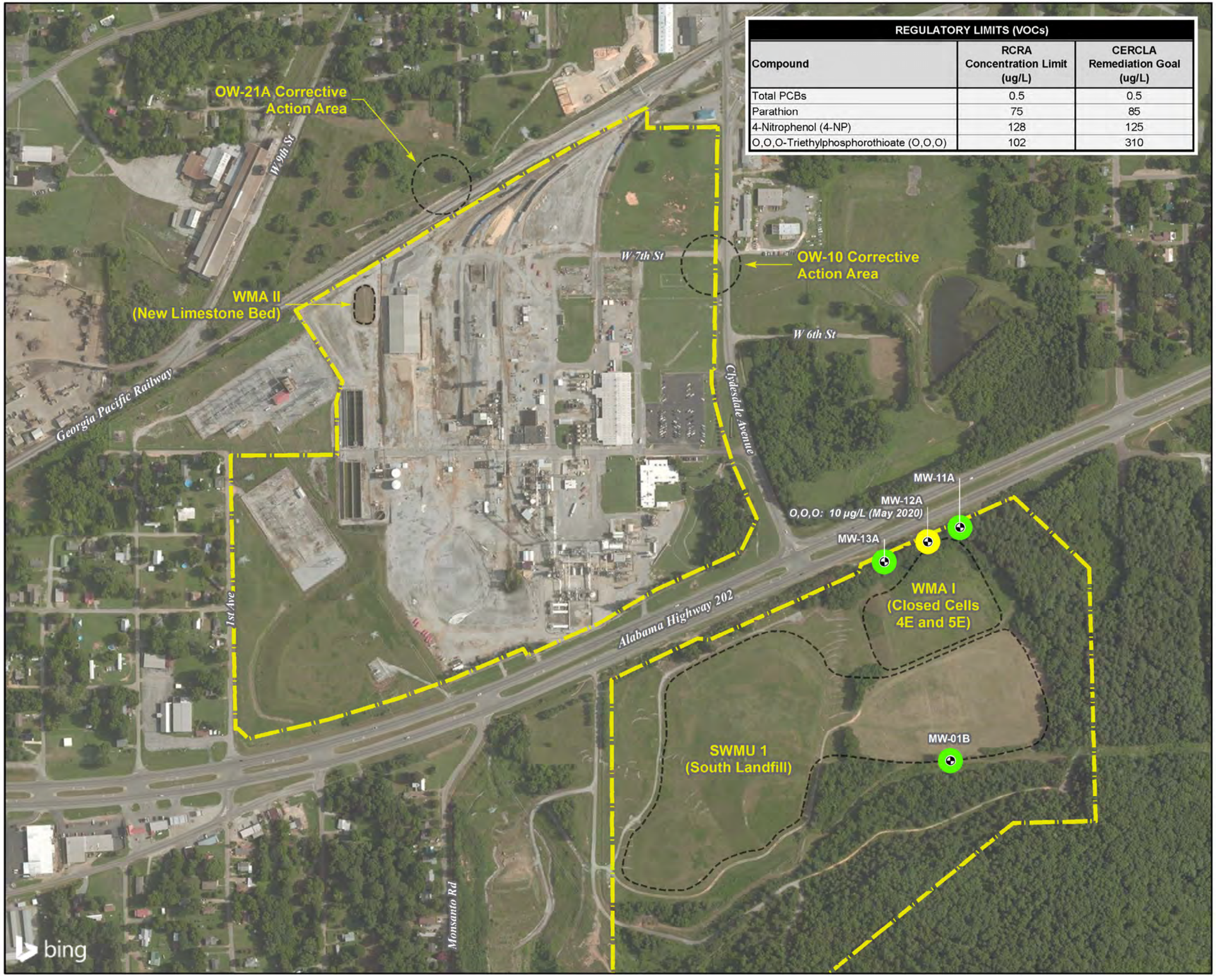
GSI ENVIRONMENTAL

POTENTIOMETRIC SURFACE MAP: SHALLOW BEDROCK, OCTOBER 2020

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

REGULATORY LIMITS (VOCs)		
Compound	**RCRA Concentration Limit (ug/L)**	**CERCLA Remediation Goal (ug/L)**
Total PCBs	0.5	0.5
Parathion	75	85
4-Nitrophenol (4-NP)	128	125
O,O,O-Triethylphosphorothioate (O,O,O)	102	310



LEGEND

- Monitoring well
- No analytes detected
- One or more analytes detected below regulatory limits
- One or more analytes detected above regulatory limits
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. Analytes: PCBs, parathion, 4-nitrophenol, and O,O,O-triethylphosphorothioate, samples from MW-01B also analyzed for cobalt, mercury, sulfotepp, 1,2-dichlorobenzene, 1,4-dichlorobenzene, and chlorobenzene.
2. Approximate locations of site features shown.
3. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

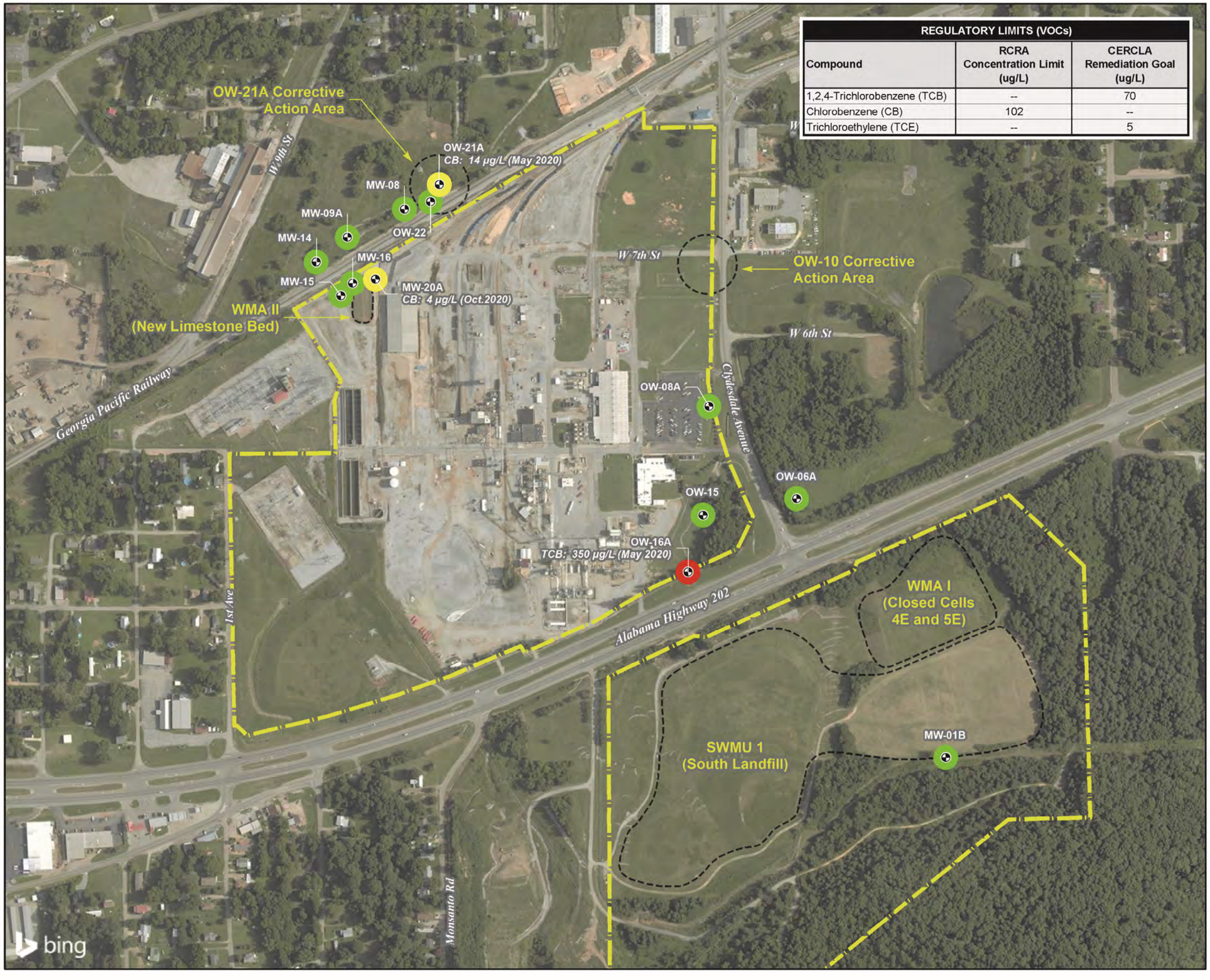
RESULTS OF 2020 RCRA GROUNDWATER DETECTION MONITORING AT WMA I

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No. 5739	Drawn By: CDM
Issued: 28-Apr-2021	Chk'd By: WBS/JA
Map ID: **001_10**	Appv'd By: TMM

FIGURE 10



REGULATORY LIMITS (VOCs)		
Compound	**RCRA Concentration Limit (ug/L)**	**CERCLA Remediation Goal (ug/L)**
1,2,4-Trichlorobenzene (TCB)	--	70
Chlorobenzene (CB)	102	--
Trichloroethylene (TCE)	--	5

N

LEGEND

- Monitoring well
- VOCs not detected
- One or more VOCs detected below regulatory limits; or no RCRA concentration limit established
- One or more VOCs detected above regulatory limits
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. VOCs: Volatile Organic Compounds.
2. Analytes: 1,2,4-Trichlorobenzene (TCB); Chlorobenzene (CB); Trichloroethylene (TCE).
   - Highest reported detections shown.
3. 1,2,4-Trichlorobenzene is analyzed in well OW-16A per CERCLA requirements and is compared to the CERCLA Remediation Goal.
4. Approximate locations of site features shown.
5. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

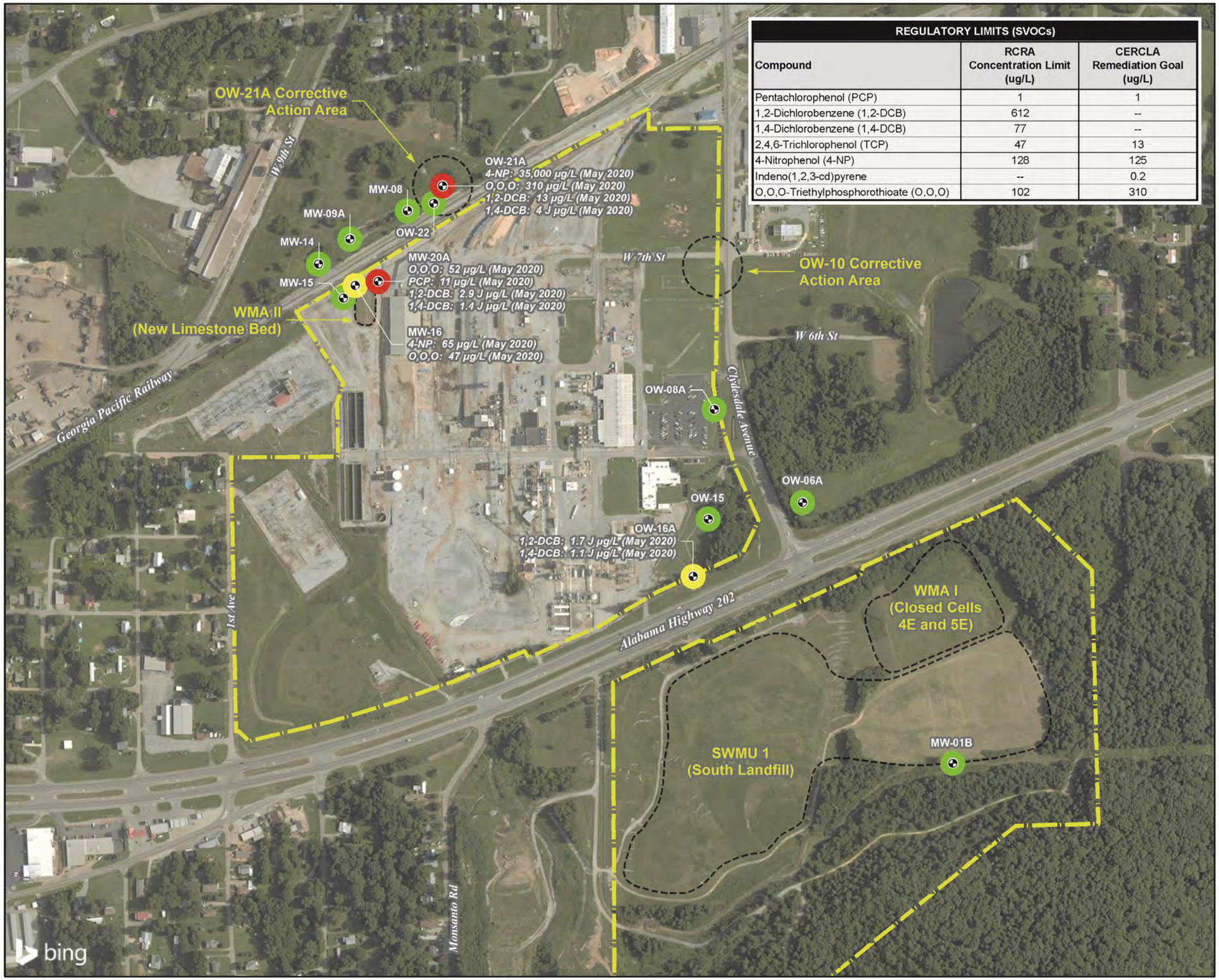
RESULTS OF 2020 RCRA GROUNDWATER CORRECTIVE ACTION MONITORING AT WMA II AND SWMU 1: VOLATILE ORGANIC COMPOUNDS

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	5739	Drawn By:	CDM
Issued:	28-Apr-2021	Chk'd By:	WBS/JA
Map ID:	**001_11**	Appv'd By:	TMM

FIGURE 11



REGULATORY LIMITS (SVOCs)		
Compound	**RCRA Concentration Limit (ug/L)**	**CERCLA Remediation Goal (ug/L)**
Pentachlorophenol (PCP)	1	1
1,2-Dichlorobenzene (1,2-DCB)	612	--
1,4-Dichlorobenzene (1,4-DCB)	77	--
2,4,6-Trichlorophenol (TCP)	47	13
4-Nitrophenol (4-NP)	128	125
Indeno(1,2,3-cd)pyrene	--	0.2
O,O,O-Triethylphosphorothioate (O,O,O)	102	310

N

LEGEND

- Monitoring well
- SVOCs not detected
- One or more SVOCs detected below regulatory limits
- One or more SVOCs detected above regulatory limits
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. SVOCs: Semi-Volatile Organic Compounds.
2. Analytes: Pentachlorophenol (PCP); 1,2-Dichlorobenzene (1,2-DCB); 1,4-Dichlorobenzene (1,4-DCB); 2,4,6-Trichlorophenol (TCP); 4-Nitrophenol (4-NP); Indeno(1,2,3-cd)pyrene; O,O,O-Triethylphosphorothioate (O,O,O);.
3. Approximate locations of site features shown.
4. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

RESULTS OF 2020 RCRA GROUNDWATER CORRECTIVE ACTION MONITORING AT WMA II AND SWMU 1: SEMI-VOLATILE ORGANIC COMPOUNDS

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	5739	Drawn By:	CDM
Issued:	28-Apr-2021	Chk'd By:	WBS/JA
Map ID:	**001_12**	Appv'd By:	TMM

FIGURE 12

REGULATORY LIMITS (PCBs)		
Compound	RCRA Concentration Limit (ug/L)	CERCLA Remediation Goal (ug/L)
Total PCBs	0.5	0.5

OW-21A Corrective Action Area

OW-21A
Aroclor 1248: 35 µg/L (May 2020)

MW-08

MW-09A

OW-22
Aroclor 1248: 1.1 J µg/L (May 2020)

MW-14

MW-16

MW-15

MW-20A

WMA II
(New Limestone Bed)

OW-10 Corrective Action Area

OW-08A
Aroclor 1248: 5.7 J µg/L (May 2020)

OW-15
Aroclor 1221: 2.3 µg/L (May 2020)

OW-16A
Aroclor 1221: 3.7 µg/L (May 2020)
Aroclor 1248: 13 µg/L (May 2020)
Aroclor 1254: 8.3 µg/L (May 2020)

OW-06A

MW-01B

WMA I
(Closed Cells 4E and 5E)

SWMU 1
(South Landfill)

W 9th St
W 8th St
W 7th St
W 6th St
Georgia Pacific Railway
Clydesdale Avenue
1st Ave
Alabama Highway 202
Monsanto Rd
bing

N

LEGEND

- Monitoring well
- PCBs not detected
- One or more PCBs detected below regulatory limits
- One or more PCBs detected above regulatory limits
- Filtered sample
- Non-Filtered sample
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. Analytes: Polychlorinated Biphenyls (PCBs).
2. Approximate locations of site features shown.
3. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

RESULTS OF 2020 RCRA GROUNDWATER CORRECTIVE ACTION MONITORING AT WMA II AND SWMU 1: PCBs

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	5739	Drawn By:	CDM
Issued:	28-Apr-2021	Chk'd By:	WBS/JA
Map ID:	**001_13**	Appv'd By:	TMM

FIGURE 13

REGULATORY LIMITS (Pesticides)		
Compound	RCRA Concentration Limit (ug/L)	CERCLA Remediation Goal (ug/L)
Parathion	75	85
Sulfotepp	6	7

OW-21A Corrective Action Area

OW-21A
Parathion: 4,900 J µg/L (May 2020)

MW-08

MW-09A

MW-14
Parathion: 1.8 J µg/L (May 2020)

OW-22

MW-16

MW-15

MW-20A

WMA II (New Limestone Bed)

OW-10 Corrective Action Area

OW-08A

OW-06A

OW-15

OW-16A
Parathion: 23 µg/L (May 2020)

WMA I (Closed Cells 4E and 5E)

SWMU 1 (South Landfill)

MW-01B

W 9th St

W 8th St

W 7th St

W 6th St

Clydesdale Avenue

1st Ave

Georgia Pacific Railway

Alabama Highway 202

Monsanto Rd

bing

N

LEGEND

- Monitoring well
- Pesticides not detected
- One or more pesticides detected below regulatory limits
- One or more pesticides detected above regulatory limits
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. Analytes: Parathion, Sulfotepp.
2. Approximate locations of site features shown.
3. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

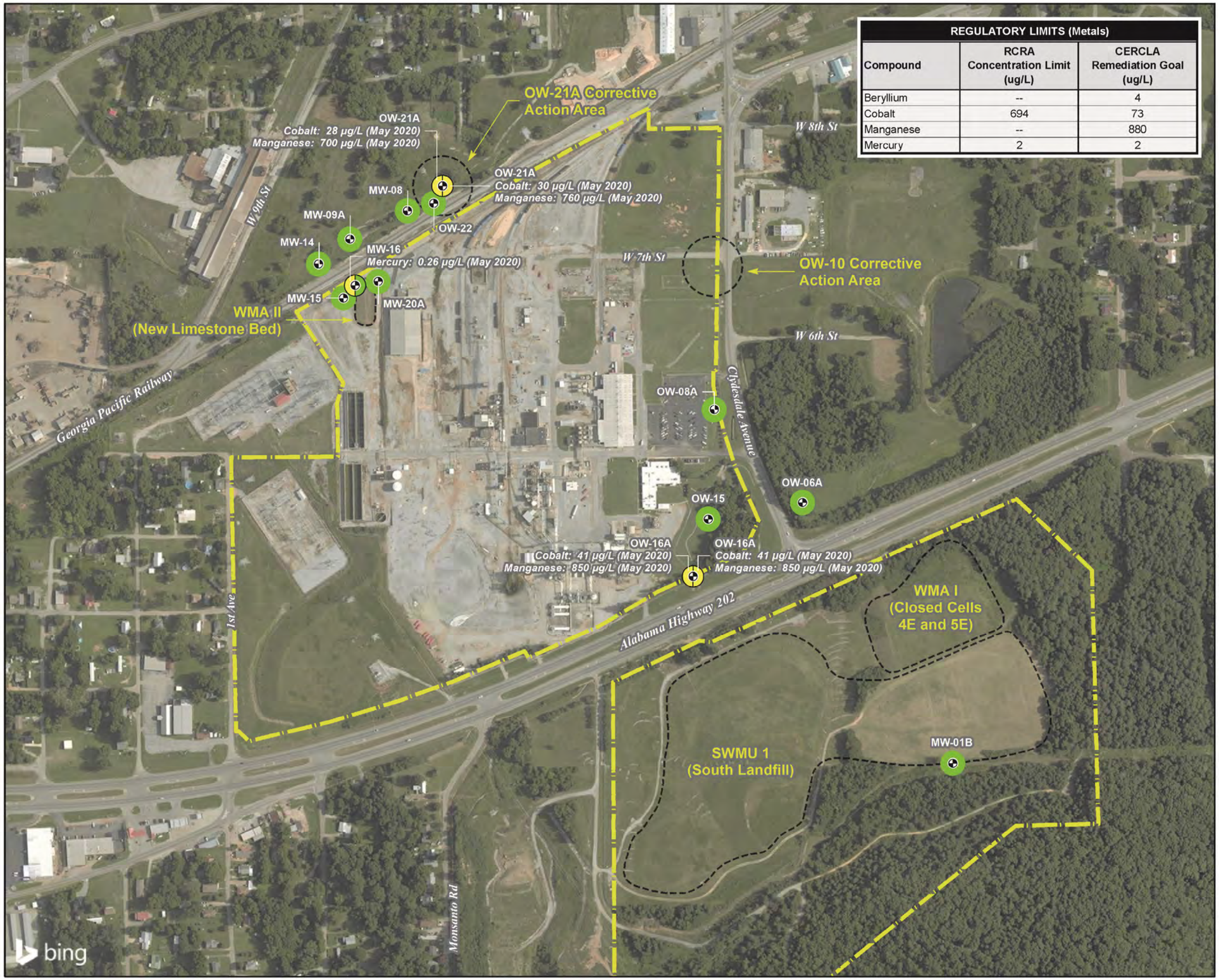
RESULTS OF 2020 RCRA GROUNDWATER CORRECTIVE ACTION MONITORING AT WMA II AND SWMU 1: PESTICIDES

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	5739	Drawn By:	CDM
Issued:	28-Apr-2021	Chk'd By:	WBS/JA
Map ID:	**001_14**	Appv'd By:	TMM

FIGURE 14



REGULATORY LIMITS (Metals)		
Compound	RCRA Concentration Limit (ug/L)	CERCLA Remediation Goal (ug/L)
Beryllium	--	4
Cobalt	694	73
Manganese	--	880
Mercury	2	2

N

LEGEND

- Monitoring well
- Cobalt and mercury not detected
- Cobalt or mercury detected below regulatory limits
- Cobalt or mercury detected above regulatory limits
- Filtered sample
- Non-Filtered sample
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. Analytes: Beryllium, Cobalt, Manganese, Mercury.
2. Approximate locations of site features shown.
3. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

RESULTS OF 2020 RCRA GROUNDWATER CORRECTIVE ACTION MONITORING AT WMA II AND SWMU 1: METALS

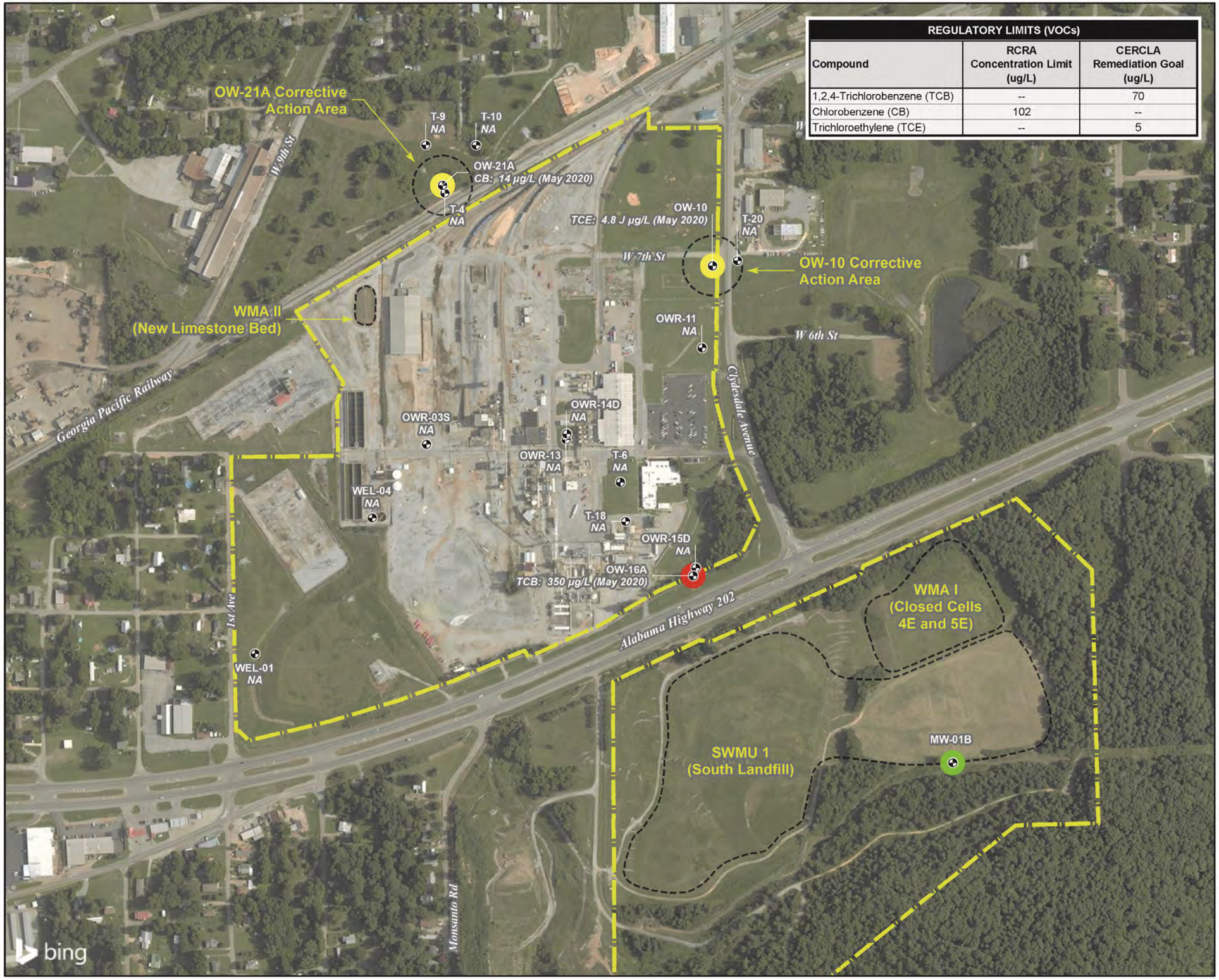
2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	5739	Drawn By:	CDM
Issued:	28-Apr-2021	Chk'd By:	WBS/JA
Map ID:	**001_15**	Appv'd By:	TMM

FIGURE 15

REGULATORY LIMITS (VOCs)		
Compound	RCRA Concentration Limit (ug/L)	CERCLA Remediation Goal (ug/L)
1,2,4-Trichlorobenzene (TCB)	--	70
Chlorobenzene (CB)	102	--
Trichloroethylene (TCE)	--	5



LEGEND

- Monitoring well
- VOCs not detected
- One or more VOCs detected below regulatory limits
- One or more VOCs detected above regulatory limits
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. VOCs: Volatile Organic Compounds.
2. Analytes: 1,2,4-Trichlorobenzene (TCB); Chlorobenzene (CB); Trichloroethylene (TCE).
   - Highest reported detections shown.
3. Samples from well OW-21A analyzed per the RCRA Groundwater Corrective Action Program.
4. NA: Not Analyzed.
5. Approximate locations of site features shown.
6. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

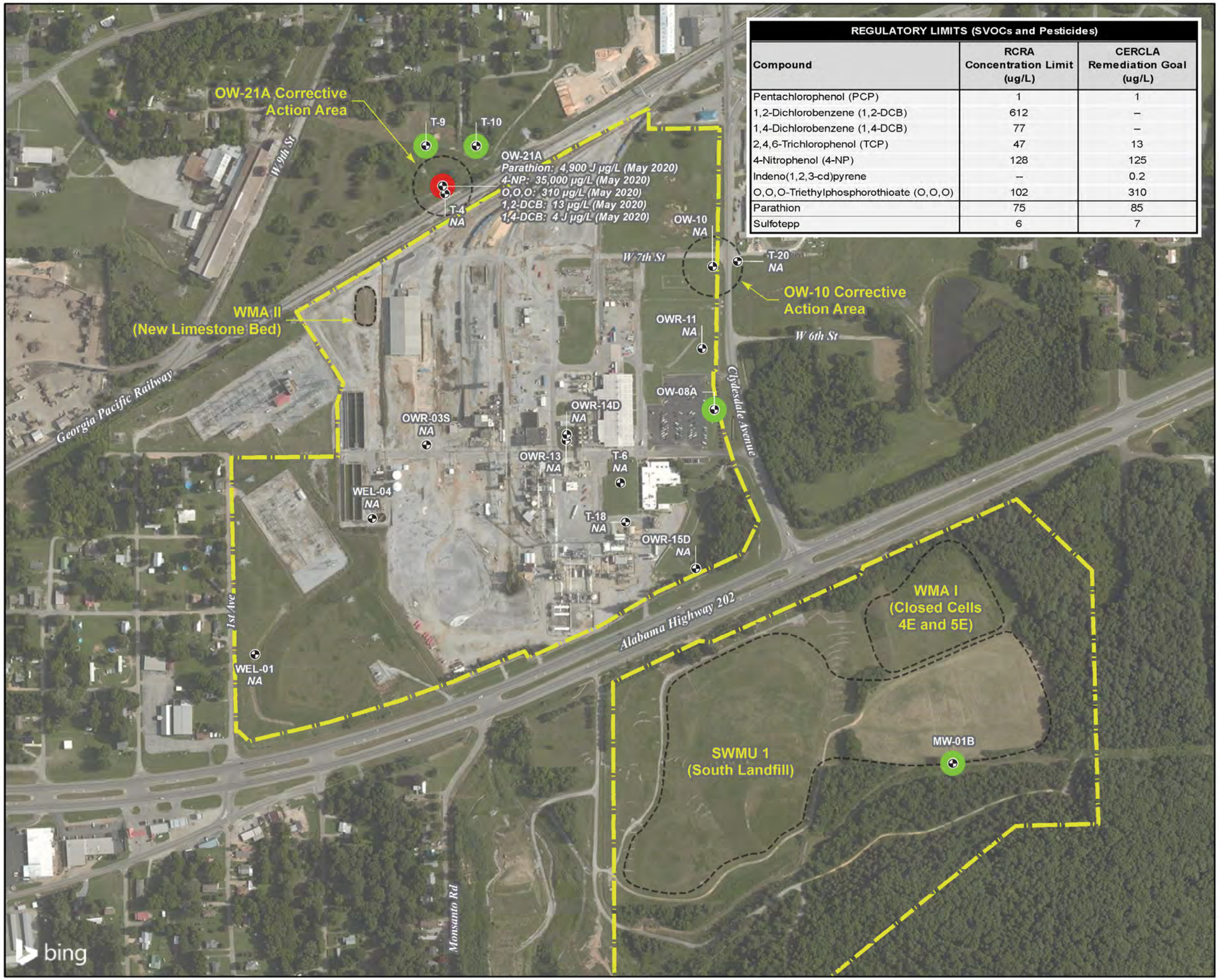
RESULTS OF 2020 CERCLA PERFORMANCE VERIFICATION SAMPLING AT OU-3: VOLATILE ORGANIC COMPOUNDS

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	5739	Drawn By:	CDM
Issued:	28-Apr-2021	Chk'd By:	WBS/JA
Map ID:	**001_16**	Appv'd By:	TMM

FIGURE 16



REGULATORY LIMITS (SVOCs and Pesticides)

Compound	RCRA Concentration Limit (ug/L)	CERCLA Remediation Goal (ug/L)
Pentachlorophenol (PCP)	1	1
1,2-Dichlorobenzene (1,2-DCB)	612	–
1,4-Dichlorobenzene (1,4-DCB)	77	–
2,4,6-Trichlorophenol (TCP)	47	13
4-Nitrophenol (4-NP)	128	125
Indeno(1,2,3-cd)pyrene	--	0.2
O,O,O-Triethylphosphorothioate (O,O,O)	102	310
Parathion	75	85
Sulfotepp	6	7

N

LEGEND

- Monitoring well
- SVOCs not detected
- One or more SVOCs or pesticides detected below regulatory limits
- One or more SVOCs or pesticides detected above regulatory limits
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. SVOCs: Semi-Volatile Organic Compounds.
2. Analytes: Pentachlorophenol (PCP); 1,2-Dichlorobenzene (1,2-DCB); 1,4-Dichlorobenzene (1,4-DCB); 2,4,6-Trichlorophenol (TCP); 4-Nitrophenol (4-NP); Indeno(1,2,3-cd)pyrene; O,O,O-Triethylphosphorothioate (O,O,O); Parathion; Sulfotepp.
3. Samples from well OW-21A analyzed per the RCRA Groundwater Corrective Action Program.
4. NA: Not Analyzed.
5. Approximate locations of site features shown.
6. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

RESULTS OF 2020 CERCLA PERFORMANCE VERIFICATION SAMPLING AT OU-3: PESTICIDES AND SEMI-VOLATILE ORGANIC COMPOUNDS

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	5739	Drawn By:	CDM
Issued:	28-Apr-2021	Chk'd By:	WBS/JA
Map ID:	**001_17**	Appv'd By:	TMM

FIGURE 17

REGULATORY LIMITS (PCBs)		
Compound	RCRA Concentration Limit (ug/L)	CERCLA Remediation Goal (ug/L)
Total PCBs	0.5	0.5

OW-21A Corrective Action Area

T-9
Aroclor 1248: 2.7 J µg/L (May 2020)

T-10

OW-21A
Aroclor 1248: 35 µg/L (May 2020)

T-4
Aroclor 1254: 13 µg/L (May 2020)

W 9th St

Clydesdale Avenue

W 8th St

OW-10

T-20
Aroclor 1248: 1.1 µg/L (May 2020)

W 7th St

OW-10 Corrective Action Area

WMA II
(New Limestone Bed)

OWR-11
Aroclor 1221: 180 µg/L (May 2020)

W 6th St

Georgia Pacific Railway

OWR-14D
Aroclor 1248: 4 J µg/L (May 2020)

OWR-03S

T-6
Aroclor 1254: 3.1 µg/L (May 2020)

WEL-04

OWR-13
Heptachlorobiphenyl: 2.6 µg/L (May 2020)
Hexachlorobiphenyl: 5.3 µg/L (May 2020)
Nonachlorobiphenyl: 0.51 µg/L (May 2020)
Octachlorobiphenyls: 1.3 µg/L (May 2020)
Pentachlorobiphenyl: 21 µg/L (May 2020)
Tetrachlorobiphenyl: 27 µg/L (May 2020)
Trichlorobiphenyl: 0.81 µg/L (May 2020)

OWR-15D
Aroclor 1221: 38 µg/L (May 2020)

Alabama Highway 202

1st Ave

T-18
Dichlorobiphenyl: 23 µg/L (May 2020)
Monochlorobiphenyl: 67 µg/L (May 2020)
Trichlorobiphenyl: 1.4 ug/L (May 2020)

WEL-01
Aroclor 1254: 0.62 µg/L (May 2020)

WMA I
(Closed Cells 4E and 5E)

SWMU 1
(South Landfill)

MW-01B

Monsanto Rd

bing

N

LEGEND

- Monitoring well
- PCBs not detected
- One or more PCBs detected below regulatory limits
- One or more PCBs detected above regulatory limits
- Filtered sample
- Non-Filtered sample
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. Analytes: Polychlorinated Biphenyls (PCBs).
2. Approximate locations of site features shown.
3. Samples from well OW-21A analyzed per the RCRA Groundwater Corrective Action Program.
4. Wells OWR-13, OWR-14D, and T-18 are analyzed by both Method 8081B/8082A (Aroclors) and Method 680 (PCB Homologs). For these wells, the method with the higher total PCBs is shown.
5. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

RESULTS OF 2020 CERCLA PERFORMANCE VERIFICATION SAMPLING AT OU-3: PCBs

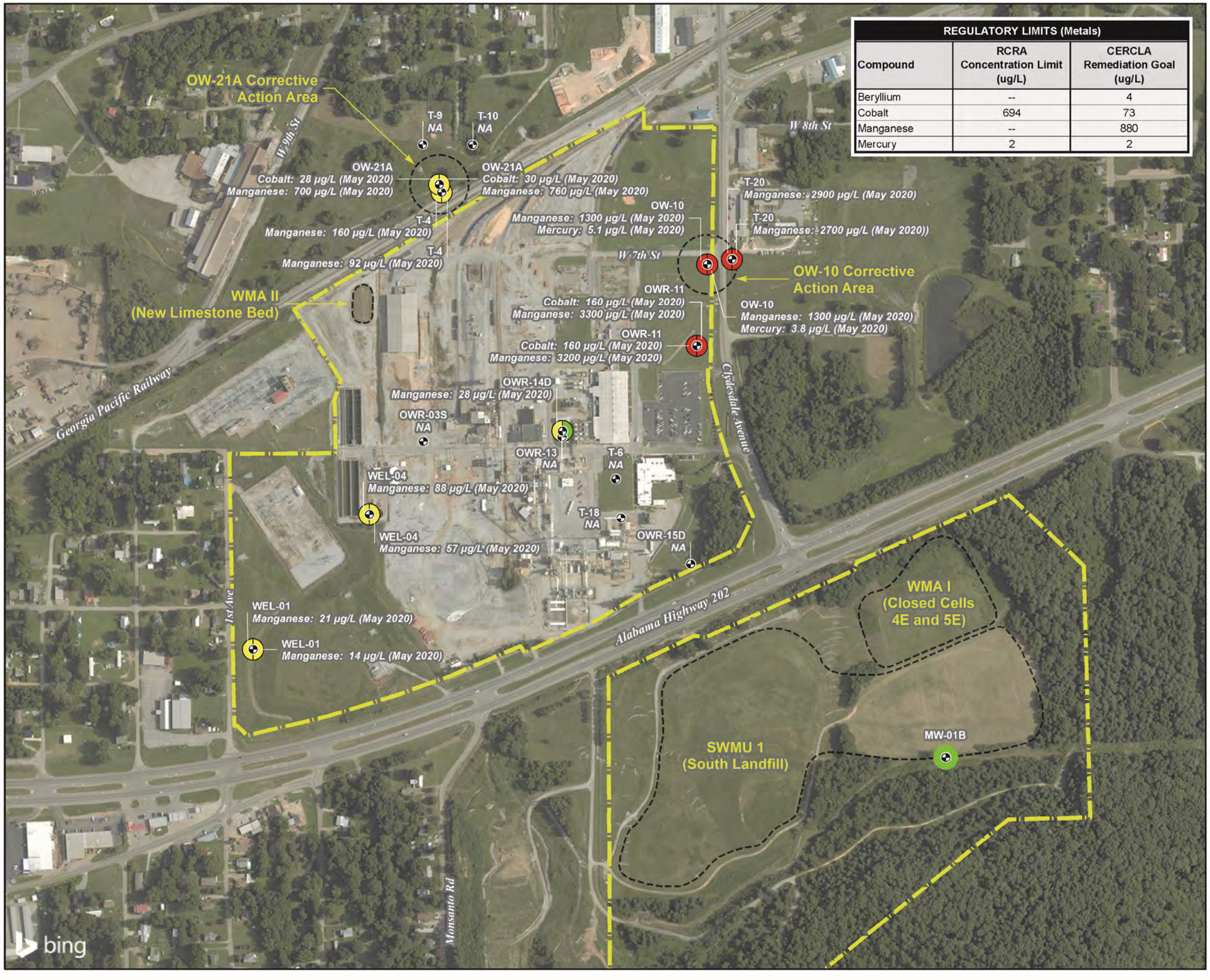
2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	5739	Drawn By:	CDM
Issued:	28-Apr-2021	Chk'd By:	WBS/JA
Map ID:	001_18	Appv'd By:	TMM

FIGURE 18

REGULATORY LIMITS (Metals)		
Compound	RCRA Concentration Limit (ug/L)	CERCLA Remediation Goal (ug/L)
Beryllium	--	4
Cobalt	694	73
Manganese	--	880
Mercury	2	2



LEGEND

- Monitoring well
- Metals not detected
- One or more metals detected below regulatory limits
- One or more metals detected above regulatory limits
- Filtered sample
- Non-Filtered sample
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. Analytes: Beryllium, Cobalt, Manganese, Mercury.
2. Samples from well OW-21A analyzed per the RCRA Groundwater Corrective Action Program.
3. NA: Not Analyzed.
4. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

RESULTS OF 2020 CERCLA PERFORMANCE VERIFICATION SAMPLING AT OU-3: METALS

2020 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	5739	Drawn By:	CDM
Issued:	28-Apr-2021	Chk'd By:	WBS/JA
Map ID:	001_19	Appv'd By:	TMM

FIGURE 19

GSI Job No. 5739

2020 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia, Inc., Anniston, Alabama
RCRA Post-Closure Permit ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDICES

Appendix A	Well Construction Specifications
Appendix B	Purging Logs
Appendix C	Sampling Logs
Appendix D	Calibration Logs
Appendix E	Historic Data Tabulation
Appendix F	Data Validation
Appendix G	Mann-Kendall Statistical Analyses
Appendix H	Laboratory Reports

GSI Job No. 5739

2020 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia, Inc., Anniston, Alabama
RCRA Post-Closure Permit ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX A: WELL CONSTRUCTION SPECIFICATIONS

GSI ENVIRONMENTAL

TABLE A
WELL CONSTRUCTION SPECIFICATIONS

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Northing (Note)	Easting (Note)	Date Installed	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Stick-up (Elevations) (ft) (Note 6)	Stick-up (Measured) (ft) (Note 7)	Stick up Difference (ft)	Approximate Boring Depth (ft bgs)	Approximate Top of Screen (ft bgs)	Approximate Bottom of Screen (ft bgs)	Total Well Depth (to Bottom of Screen) (ft btoc)	Screened Interval Length (ft)	Top of Screen (ft msl)	Bottom of Screen (ft msl)	Well Type
Observation Wells																
OW-01 (Note 5)	1145248.00	650002.00	Pre-1995 (estimated)	811.20	812.71	1.5	1.3	0.3	26	21	26	26.5	5	791.20	786.20	Residuum
OW-02 (Note 5)	1145348.00	650023.00	May 1985	806.10	807.69	1.6	1.3	0.3	35	19	24	25.6	5	787.10	782.10	Residuum
OW-03 (Note 5)	1145419.00	650031.00	May 1985	802.10	805.25	3.1	2.9	0.3	25	19	24	27.2	5	783.10	778.10	Residuum
OW-04 (Note 5)	1145494.00	650041.00	May 1985	796.70	798.57	1.9	1.7	0.2	30	22	27	28.9	5	774.70	769.70	Residuum
OW-05 (Note 5)	1146017.00	650148.00	Pre-1995 (estimated)	770.70	773.02	2.3	2.3	0.1	65	60	65	67.3	5	710.70	705.70	Residuum
OW-06A	1146210.00	650663.00	March 1998	788.87	791.62	2.8	2.8	0.0	49	39	49	51.8	10	749.87	739.87	Residuum
OW-07 (Note 5)	1146355.13	650587.56	May 1985	781.20	785.82	4.6	4.5	0.1	43	38	43	47.6	5	743.20	738.20	Residuum
OW-08A	1146601.00	650298.00	March 1998	746.30	749.16	2.9	2.9	0.0	23	12.5	22.5	25.4	10	733.80	723.80	Residuum
OW-09	1146931.00	650471.00	Pre-1995 (estimated)	736.30	738.36	2.1	2.0	0.1	40	33	38	40.1	5	703.30	698.30	Residuum
OW-10	1147198.92	650297.70	October 1980	736.67	736.67	0.0	0.0	0.1	40	33	38	40.2	5	701.71	696.71	Residuum
OW-11 (Note 5)	1145210.00	650158.00	October 1980	824.70	825.36	0.7	0.8	0.2	14	9	14	14.7	5	815.70	810.70	Residuum
OW-12 (Note 5)	1145139.00	650192.00	October 1980	831.60	835.34	3.7	3.3	0.4	34.5	29.5	34.5	38.2	5	802.10	797.10	Residuum
OW-13 (Note 5)	1145686.00	650472.00	October 1980	802.10	805.16	3.1	1.6	1.5	43	38	43	46.1	5	764.10	759.10	Residuum
OW-14 (Note 5)	1145608.00	650229.00	October 1980	803.30	806.98	3.7	3.5	0.1	46	41	46	49.7	5	762.30	757.30	Residuum
OW-15 (Note 5)	1146146.00	650268.00	December 1987	764.00	766.90	2.9	2.7	0.2	40	35	40	42.9	5	729.00	724.00	Residuum
OW-16 (Note 5)	1145916.00	650209.00	December 1987	777.50	781.51	4.0	3.9	0.1	30	25	30	34.0	5	752.50	747.50	Residuum
OW-16A	1145907.00	650202.00	March 1998	777.60	779.74	2.1	2.0	0.1	33	23	33	35.1	10	754.60	744.60	Residuum
OW-17 (Note 5)	1145606.00	650417.00	December 1987	810.30	812.29	2.0	2.1	0.1	40	35	40	42.0	5	775.30	770.30	Residuum
OW-18	1147233.23	648906.40	October 1985	747.52	750.47	3.0	2.8	0.1	27.5	22	27	30.0	5	725.52	720.52	Residuum
OW-19	1147262.06	648966.21	October 1985	745.80	748.72	2.9	2.5	0.4	25	19	24	26.9	5	726.80	721.80	Residuum
OW-20	1147295.14	649018.61	October 1985	744.80	747.62	2.8	2.5	0.3	23	15	20	22.8	5	729.80	724.80	Residuum
OW-21A	1147546.72	649174.02	January 2003	741.90	744.46	2.6	2.4	0.1	35	25	35	37.6	10	716.90	706.90	Residuum
OW-22	1147474.08	649136.92	June 1986	741.90	745.57	3.7	2.3	1.4	34	24	34	37.7	10	717.90	707.90	Residuum
OW-23	1147323.02	649067.29	June 1986	744.40	747.53	3.1	2.8	0.4	23	18	23	26.1	5	726.40	721.40	Residuum
OW-24	1147353.36	649122.38	June 1986	743.50	746.15	2.6	2.4	0.2	29	24	29	31.7	5	719.50	714.50	Residuum
OW-25	1145442.89	649908.69	Pre-1995 (estimated)	797.71	800.21	2.5	1.8	0.7	35	30	35	37.5	5	767.71	762.71	Residuum
Bedrock Wells																
BR-01 (Note 5)	1144532.00	650300.00	September 1987	892.60	897.46	4.9	5.0	0.1	311	291	311	315.9	20	601.60	581.60	Bedrock
BR-02 (Note 5)	1144543.00	649841.00	September 1987	861.60	865.22	3.6	2.9	0.7	181	161	181	184.6	20	700.60	680.60	Bedrock
BR-03 (Note 5)	1145042.00	649834.00	September 1987	825.70	827.58	1.9	2.5	0.7	258	238	258	259.9	20	587.70	567.70	Bedrock
BR-04	1145636.18	649592.91	December 1987	788.74	790.74	2.5	1.8	0.7	220	200	220	222.5	20	588.74	568.74	Bedrock
BR-05 (Note 4)	1146159.42	648852.23	February 1988	763.30	764.10	0.8	0.8	0.0	224	129	149	149.8	20	634.30	614.30	Bedrock
Site Assessment Wells																
SA-06 (Note 4)	1145716.25	651609.36	October 1980	813.56	815.56	2.0	3.1	1.1	50	45	50	52.0	5	768.56	763.56	Residuum
SA-22 (Note 4)	1145948.64	651103.33	October 1980	790.00	792.84	2.8	3.6	0.8	24	18	23	25.8	5	772.00	767.00	Residuum
SA-64 (Note 4)	1147406.02	648641.11	Pre-1995 (estimated)	746.23	748.65	2.4	2.0	0.4	24	19	24	26.4	5	727.23	722.23	Residuum
SA-85 (CB-85) (Note 5)	1147479.00	649972.00	Pre-1995 (estimated)	733.80	736.37	2.6	2.8	0.2	40	35	40	42.6	5	698.80	693.80	Residuum
Shallow Bedrock Wells																
SBP-01	1146863.48	648695.95	August 1992	755.55	758.17	2.6	2.5	0.1	157	137	152	154.6	15	618.55	603.55	Bedrock
SBP-02	1147132.39	649190.70	July 1992	747.07	749.40	2.3	2.3	0.0	140	123	138	140.3	15	624.07	609.07	Bedrock
SBP-03	1147578.15	649183.78	August 1992	740.60	744.41	3.8	2.3	1.6	102	90	100	103.8	10	650.60	640.60	Bedrock
SBP-04	1146471.57	649111.31	September 1992	758.97	761.30	2.3	2.3	0.0	147.5	130	145	147.3	15	628.97	613.97	Bedrock
SBP-05	1147087.09	648744.38	November 1992	753.55	755.88	2.3	3.0	0.7	140	128	138	140.3	10	625.55	615.55	Bedrock
West End Landfill Wells																
WEL-01	1145603.34	648369.53	April 1994	777.22	778.80	1.6	1.4	0.2	31.5	19	29	30.6	10	758.22	748.22	Residuum
WEL-02	1145721.67	648436.57	April 1994	773.68	775.35	1.7	1.5	0.1	31	18.5	28.5	30.2	10	755.18	745.18	Residuum
WEL-03	1145905.50	648498.69	April 1994	769.40	771.73	2.3	2.4	0.0	32	19.5	29.5	31.8	10	749.90	739.90	Residuum
WEL-04	1146164.41	648864.25	Pre-1995 (estimated)	763.14	765.94	2.8	2.9	0.1	47	34.5	44.5	47.3	10	728.64	718.64	Residuum

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TABLE A
WELL CONSTRUCTION SPECIFICATIONS

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Northing (Note)	Easting (Note)	Date Installed	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Stick-up (Elevations) (ft) (Note 6)	Stick-up (Measured) (ft) (Note 7)	Stick up Difference (ft)	Approximate Boring Depth (ft bgs)	Approximate Top of Screen (ft bgs)	Approximate Bottom of Screen (ft bgs)	Total Well Depth (to Bottom of Screen) (ft btoc)	Screened Interval Length (ft)	Top of Screen (ft msl)	Bottom of Screen (ft msl)	Well Type
Monitoring Wells																
MW-01	1145104.14	650901.37	Pre-1995 (estimated)	NS	868.72	NA	NA	NA	62	47 and 57	52 and 62	NA	5 and 5	NA	NA	Residuum
MW-01A	1145095.00	651231.00	May 1985	NS	884.49	NA	NA	NA	56	51	56	NA	5	NA	NA	Residuum
MW-01B	1145116.72	651277.30	October 1985	880.09	881.59	1.5	1.7	0.2	62.5	57.5	62.5	64.0	5	822.59	817.59	Residuum
MW-07	1147637.00	649173.00	Pre-1995 (estimated)	741.00	744.18	3.2	2.1	1.1	24	19	24	27.2	5	722.00	717.00	Residuum
MW-08	1147444.00	649026.00	Pre-1995 (estimated)	743.20	746.80	3.6	2.3	1.3	27	22	27	30.6	5	721.20	716.20	Residuum
MW-09A	1147328.70	648784.60	February 2003	748.00	751.02	3.0	2.6	0.4	33.2	23	33	36.0	10	725.00	715.00	Residuum
MW-11	1146061.00	651309.00	May 1985	NS	783.74	NA	NA	NA	29	24	29	NA	5	NA	NA	Residuum
MW-11A	1146090.98	651328.20	October 1985	783.13	784.13	1.0	0.8	0.2	117	109	114	115.0	5	674.13	669.13	Bedrock
MW-12	1146004.00	651179.00	May 1985	NS	785.77	NA	NA	NA	28	23	28	NA	5	NA	NA	Residuum
MW-12A	1146032.60	651193.11	October 1985	783.69	785.69	2.0	1.8	0.3	124.5	105	110	112.0	5	678.69	673.69	Bedrock
MW-13	1145913.00	650962.00	May 1985	NS	782.24	NA	NA	NA	29	24	29	NA	5	NA	NA	Residuum
MW-13A	1145950.40	651010.06	October 1985	779.34	782.01	2.7	2.5	0.1	123.5	105	110	112.7	5	674.34	669.34	Bedrock
MW-14 (Note 4)	1147227.00	648653.00	May 1985	749.14	751.3	2.2	1.9	0.3	24	19	24	26.2	5	730.14	725.14	Residuum
MW-15	1147084.00	648755.00	October 1985	752.52	756.19	3.7	2.7	1.0	27	19	24	27.7	5	733.52	728.52	Residuum
MW-16	1147135.97	648804.30	October 1985	752.62	755.70	3.1	3.1	0.0	68.5	58	68	71.1	10	694.62	684.62	Residuum
MW-20A	1147151.04	648900.78	May 1988	751.65	752.90	1.3	1.5	0.3	24	19	24	25.3	5	732.65	727.65	Residuum
Piezometers																
PZ-08 (Note 4)	1147442.42	649465.87	April 1991	747.84	750.51	2.7	2.6	0.1	49.9	44.9	49.9	52.6	5	702.94	697.94	Residuum
PZ-09 (Note 4)	1147132.36	649094.63	April 1991	747.38	749.71	2.3	2.2	0.2	55	35	40	42.3	5	712.38	707.38	Residuum
PZ-10 (Note 4)	1147012.08	648800.95	April 1991	753.98	756.06	2.1	2.3	0.2	55	45	50	52.1	5	708.98	703.98	Residuum
PZ-11 (Note 4)	1147283.97	648581.81	April 1991	749.09	750.71	1.6	1.5	0.1	50	40	45	46.6	5	709.09	704.09	Residuum
RFI Piezometers																
PZR-01	1145640.00	650398.00	June 1998	804.40	806.91	2.5	2.0	0.5	60	40	60	62.5	20	764.40	744.40	Residuum
PZR-02	1145685.00	650464.00	June 1998	803.50	805.86	2.4	2.0	0.4	60	40	60	62.4	20	763.50	743.50	Residuum
PZR-03	1145699.00	650508.00	June 1998	802.40	805.05	2.6	2.0	0.6	61	41	61	63.7	20	761.40	741.40	Residuum
PZR-04	1145717.00	650531.00	June 1998	801.50	803.94	2.4	NA	NA	60	40	60	62.4	20	761.50	741.50	Residuum
PZR-05	1146377.00	650315.00	June 1998	753.30	755.73	2.4	1.9	0.5	46	26	46	48.4	20	727.30	707.30	Residuum
PZR-06	1146344.00	650252.00	June 1998	754.90	757.09	2.2	1.9	0.3	46	26	46	48.2	20	728.90	708.90	Residuum
SSSMA Wells																
NW-1	1145056.92	649336.94	July 2006	825.09	827.40	2.3	2.3	0.0	54	20	40	42.3	20	805.09	785.09	Residuum
SW-1	1144141.89	649682.45	June 2006	900.55	902.95	2.4	2.4	0.0	52	32	52	54.4	20	868.55	848.55	Residuum
Other Wells																
DOP-01	1147424.61	648964.03	October 1992	743.80	747.49	3.7	2.4	1.3	300	265	290	293.7	25	478.80	453.80	Residuum
DW-01	1147158.05	648895.87	September 1991	751.08	753.88	2.8	NA	NA	96	83.25	93.25	96.1	10	667.83	657.83	Interceptor
CMW-1	1148202.46	650928.78	August 2004	717.14	720.40	3.3	3.0	0.3	28.5	18	28.5	31.8	10	699.14	688.64	Residuum
CMW-2	1148473.21	651048.47	August 2004	713.85	716.69	2.8	3.1	0.2	22.5	12	22.5	25.3	10	701.85	691.35	Residuum
CMW-3	1148770.79	651705.61	August 2004	707.09	710.22	3.1	2.7	0.4	27.0	16.5	27	30.1	10	690.59	680.09	Residuum
SSSMA-East	1144721.80	649574.00	August 2010	826.80	829.70	2.9	2.9	0.0	15	10	15	17.9	5	816.80	811.80	Residuum
SSSMA-West	1144687.10	649371.10	August 2010	825.30	827.90	2.6	2.6	0.0	15.3	10.3	15.3	17.9	5	815.00	810.00	Residuum

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TABLE A
WELL CONSTRUCTION SPECIFICATIONS

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Northing (Note)	Easting (Note)	Date Installed	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Stick-up (Elevations) (ft) (Note 6)	Stick-up (Measured) (ft) (Note 7)	Stick up Difference (ft)	Approximate Boring Depth (ft bgs)	Approximate Top of Screen (ft bgs)	Approximate Bottom of Screen (ft bgs)	Total Well Depth (to Bottom of Screen) (ft btoc)	Screened Interval Length (ft)	Top of Screen (ft msl)	Bottom of Screen (ft msl)	Well Type
T Wells																
T-1	1147455.96	650133.79	June 2005	731.47	732.72	1.3	0.3	0.9	45	30	40	41.3	10	701.47	691.47	Residuum
T-2	1147466.94	649491.74	June 2005	749.13	751.13	2.0	1.6	0.4	44	34	44	46.0	10	715.13	705.13	Residuum
T-3	1146620.20	650514.02	June 2005	746.09	747.09	1.0	0.9	0.1	25	15	25	26.0	10	731.09	721.09	Residuum
T-4	1147513.54	649184.18	June 2005	742.18	743.28	1.1	0.8	0.3	25	15	25	25.8	10	727.18	717.18	Residuum
T-5	1146124.36	650076.51	October 2006	765.09	767.16	2.1	2.0	0.0	145	118	128	130.1	10	647.09	637.09	Bedrock
T-6	1146301.15	649902.83	October 2006	761.96	761.96	0.0	0.0	0.0	150	115	125	124.8	10	645.13	635.13	Bedrock
T-9	1147714.22	649106.27	April 2008	742.47	745.46	3.0	3.0	0.0	37	27	37	40.0	10	715.47	705.47	Residuum
T-10	1147711.36	649316.74	April 2008	737.20	740.20	3.0	3.0	0.0	35	25	35	38.0	10	712.20	702.20	Residuum
T-11	1148974.57	652936.85	April 2008	695.32	698.23	2.9	3.0	0.1	21	8.5	13.5	16.4	5	686.82	681.82	Residuum
T-16	1135347.63	657413.14	January 2012	626.62	626.26	-0.4	NA	NA	15	4	14	13.6	10	622.62	612.62	Residuum
T-18	1146137.41	649922.53	December 2013	763.06	762.78	-0.3	NA	NA	28	16	26	25.7	10	747.06	737.06	Residuum
T-19	1147051.28	649800.11	December 2013	755.91	758.51	2.6	2.6	0.0	39	25.7	35.7	38.3	10	730.21	720.21	Residuum
T-20	1147218.69	650402.36	December 2013	731.94	731.61	-0.3	NA	NA	40	27.5	37.5	37.2	10	704.44	694.44	Residuum
RFI Observation Wells																
OWR-01D	1147697.00	649884.00	June 1998	737.50	739.59	2.1	2.0	0.1	65	55	65	67.1	10	682.50	672.50	Residuum
OWR-01S	1147706.00	649892.00	June 1998	736.60	738.89	2.3	2.0	0.3	35	25	35	37.3	10	711.60	701.60	Residuum
OWR-02D	1146850.00	648703.00	June 1998	754.70	756.99	2.3	2.3	0.0	110	98	108	110.3	10	656.70	646.70	Residuum
OWR-02S	1146844.00	648706.00	June 1998	754.90	757.46	2.6	2.6	0.0	35	25	35	37.6	10	729.90	719.90	Residuum
OWR-03D	1146478.00	649093.00	June 1998	757.50	759.76	2.3	2.1	0.2	65	55	65	67.3	10	702.50	692.50	Residuum
OWR-03S	1146468.00	649095.00	June 1998	758.30	760.48	2.2	2.2	0.0	35	25	35	37.2	10	733.30	723.30	Residuum
OWR-04D	1147481.00	649130.00	May 1998	741.90	746.03	4.1	2.1	2.0	80	70	80	84.1	10	671.90	661.90	Residuum
OWR-05D	1145694.00	650482.00	June 1998	802.40	804.93	2.5	2.0	0.5	68	58	68	70.5	10	744.40	734.40	Residuum
OWR-06D	1147190.00	650283.00	June 1998	734.50	736.79	2.3	2.1	0.2	65	55	65	67.3	10	679.50	669.50	Residuum
OWR-07D	1145807.00	648474.00	May 1998	772.10	774.49	2.4	2.0	0.4	65	55	65	67.4	10	717.10	707.10	Residuum
OWR-08S	1147145.00	648846.00	June 1998	752.90	755.17	2.3	2.3	0.0	35	25	35	37.3	10	727.90	717.90	Residuum
OWR-09S	1147319.00	651456.00	June 1998	750.70	753.09	2.4	1.9	0.5	50	40	50	52.4	10	710.70	700.70	Residuum
OWR-10	1146199.67	648296.77	January 2003	767.0	769.95	3.0	2.6	0.4	49.2	39.2	49.2	52.2	10	727.80	717.80	Residuum
OWR-11	1146857.44	650249.85	January 2003	744.3	744.26	0.0	0.0	0.4	35	25	35	37.9	10	717.30	707.30	Residuum
OWR-12	1146677.47	649328.39	January 2003	760.6	763.20	2.6	2.6	0.0	37	27	37	39.6	10	733.60	723.60	Residuum
OWR-13	1146480.77	649678.04	January 2003	766.8	769.45	2.7	2.8	0.1	36	26	36	38.7	10	740.80	730.80	Residuum
OWR-14D	1146505.05	649680.62	June 2005	779.61	782.1	2.5	2.5	0.0	81	69	79	81.5	10	710.61	700.61	Residuum
OWR-15D	1145940.54	650213.52	June 2005	778.94	781.4	2.5	2.2	0.3	64	54	64	66.5	10	724.94	714.94	Residuum
Interceptor Wells																
IW-01 (Note 5)	1145164.00	650109.00	Pre-1995 (estimated)	820.5	821.18	0.7	0.7	0.0	26	11	21	21.7	10	809.5	799.50	Interceptor
IW-02 (Note 5)	1145271.00	650099.00	Pre-1995 (estimated)	813.5	815.27	1.8	1.5	0.2	25	10	20	21.8	10	803.5	793.50	Interceptor
IW-03 (Note 5)	1145371.00	650104.00	Pre-1995 (estimated)	806.6	810.59	4.0	2.5	1.4	25	10	20	24.0	10	796.6	786.60	Interceptor
IW-04 (Note 5)	1145473.00	650104.00	Pre-1995 (estimated)	798.9	799.88	1.0	0.7	0.3	25	10	20	21.0	10	788.9	778.90	Interceptor
IW-05	1145611.76	650319.73	Pre-1995 (estimated)	803.07	805.46	2.4	2.0	0.4	68	53	63	65.4	10	750.07	740.07	Interceptor
IW-06	1145677.55	650459.11	Pre-1995 (estimated)	800.07	803.84	3.8	0.8	3.0	68	25	68	71.8	43	775.07	732.07	Interceptor
IW-07	1145799.00	650734.10	Pre-1995 (estimated)	793.35	794.63	1.3	2.0	0.7	40	1	40	41.3	39	792.35	753.35	Interceptor
IW-08	1145764.36	650653.13	Pre-1995 (estimated)	796.77	798.02	1.3	0.5	0.8	39.5	1	39.5	40.8	38.5	795.77	757.27	Interceptor
IW-09	1145737.25	650589.28	Pre-1995 (estimated)	799.67	801.03	1.4	0.6	0.8	50	1	50	51.4	49	798.67	749.67	Interceptor
IW-10	1145709.99	650528.28	Pre-1995 (estimated)	800.67	801.93	1.3	0.7	0.6	68	1	68	69.3	67	799.67	732.67	Interceptor
IW-11	1145644.22	650392.38	Pre-1995 (estimated)	803.42	804.62	1.2	1.3	0.1	68	1	68	69.2	67	802.42	735.42	Interceptor
IW-12	1145566.11	650225.61	Pre-1995 (estimated)	796.49	797.86	1.4	1.0	0.4	50	1	50	51.4	49	795.49	746.49	Interceptor
IW-13	1145529.73	650083.91	Pre-1995 (estimated)	794.56	795.74	1.2	0.4	0.8	50	1	50	51.2	49	793.56	744.56	Interceptor
IW-14A	1146543.05	650289.77	February 2003	748.00	746.70	-1.3	-0.5	0.8	49.4	29.4	49.4	48.1	20	718.60	698.60	Interceptor
IW-15	1146349.39	650245.49	Pre-1995 (estimated)	755.45	756.73	1.3	1.7	0.4	45	1	45	46.3	44	754.45	710.45	Interceptor
IW-16	1147359.73	649187.53	Pre-1995 (estimated)	746.14	746.82	0.7	1.5	0.8	50	1	50	50.7	49	745.14	696.14	Interceptor
IW-17	1147321.33	649123.03	Pre-1995 (estimated)	745.86	746.65	0.8	1.0	0.2	50	1	50	50.8	49	744.86	695.86	Interceptor

GSI ENVIRONMENTAL

TABLE A
WELL CONSTRUCTION SPECIFICATIONS

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Northing (Note)	Easting (Note)	Date Installed	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Stick-up (Elevations) (ft) (Note 6)	Stick-up (Measured) (ft) (Note 7)	Stick up Difference (ft)	Approximate Boring Depth (ft bgs)	Approximate Top of Screen (ft bgs)	Approximate Bottom of Screen (ft bgs)	Total Well Depth (to Bottom of Screen) (ft btoc)	Screened Interval Length (ft)	Top of Screen (ft msl)	Bottom of Screen (ft msl)	Well Type
Interceptor Wells (Continued)																
IW-18	1147284.01	649058.39	Pre-1995 (estimated)	747.9	748.63	0.7	2.0	1.3	50	1	50	50.7	49	746.9	697.90	Interceptor
IW-19	1147246.11	648991.94	Pre-1995 (estimated)	748.63	749.31	0.7	1.2	0.5	50	1	50	50.7	49	747.63	698.63	Interceptor
IW-20	1147216.86	648942.43	Pre-1995 (estimated)	750.02	750.70	0.7	1.7	1.0	50	1	50	50.7	49	749.02	700.02	Interceptor
IW-21	1147170.58	648862.80	Pre-1995 (estimated)	751.8	752.45	0.7	0.7	0.0	50	1	50	50.7	49	750.8	701.80	Interceptor
IW-22	1147403.35	649253.88	February 2003	744.38	743.23	-1.1	-1.0	0.1	39.9	14.9	39.9	38.8	25	729.48	704.48	Interceptor
IW-23	1147303.90	649089.55	January 2003	746.15	745.20	-0.9	-0.9	0.0	50	25	50	49.1	25	721.15	696.15	Interceptor
IW-24	1147269.88	649031.47	January 2003	747.33	745.86	-1.5	-1.4	0.1	40	15	40	38.5	25	732.33	707.33	Interceptor
IW-25	1147121.03	648792.11	February 2003	753.50	751.96	-1.5	-1.3	0.2	40	15	40	38.5	25	738.50	713.50	Interceptor
IW-26	1147567.00	649189.00	August 2015	NA	731.90	NA	NA	NA	35	10	35	35.0	25	731.90	706.90	Interceptor
IW-27	1147567.00	649159.00	August 2015	NA	731.90	NA	NA	NA	35.3	10	35	35.3	25	731.90	706.90	Interceptor
IW-28	1147213.00	650291.00	August 2015	NA	726.70	NA	NA	NA	37.7	8	38	37.7	30	726.70	696.70	Interceptor
IW-29	1147185.00	650301.00	August 2015	NA	726.70	NA	NA	NA	37.4	8	38	37.4	30	726.70	696.70	Interceptor
Abandoned Wells																
CB-08 (Note 5)	1145411.00	650082.00	October 1980	803.80	804.77	1.0	NA	NA	26	17	22	23.0	5	786.80	781.80	Abandoned
CB-08-C1 (Note 5)	1145406.00	650077.00	October 1980	803.90	805.77	1.9	NA	NA	41	36	41	42.9	5	767.90	762.90	Abandoned
CB-09 (Note 5)	1144961.00	650152.00	October 1980	837.10	839.05	1.9	NA	NA	42	37	42	43.9	5	800.10	795.10	Abandoned
CB-10 (Note 5)	1145336.00	650084.00	October 1980	808.00	809.85	1.9	NA	NA	34	16	21	22.9	5	792.00	787.00	Abandoned
CB-26 (Note 5)	1145250.00	650128.00	October 1980	816.40	818.37	2.0	NA	NA	16	11	16	18.0	5	805.40	800.40	Abandoned
CB-33 (Note 5)	1145385.00	650082.00	October 1980	805.00	807.08	2.1	NA	NA	45	40	45	47.1	5	765.00	760.00	Abandoned
CB-53 (Note 5)	1145545.60	650254.24	May 1985	798.22	800.62	2.4	NA	NA	50	44	49	51.4	5	754.22	749.22	Abandoned
CB-54 (Note 5)	1145558.00	650189.00	May 1985	794.70	796.89	2.2	NA	NA	30	24	29	31.2	5	770.70	765.70	Abandoned
CB-55 (Notes 1 & 2)	1145528.40	650115.21	May 1985	795.15	795.48	0.3	NA	NA	50	40	45	45.3	5	755.15	750.15	Abandoned
CB-55-SH (Note 5)	1145521.00	650114.00	May 1985	794.80	796.75	2.0	NA	NA	24	19	24	26.0	5	775.80	770.80	Abandoned
DMW-PROD	11486979.07	649524.63	Pre-1995 (estimated)	NS	NS	NA	NA	NA	958	100	958	NA	858	NA	NA	Abandoned
IW-14	1146387.68	650322.26	Pre-1995 (estimated)	753.65	754.95	1.3	NA	NA	46	1	46	47.3	45	752.65	707.65	Abandoned
MW-02 (Note 4)	1146152.48	651509.56	Pre-1995 (estimated)	774.63	777.05	2.4	NA	NA	43	38	43	45.4	5	736.63	731.63	Abandoned
MW-03 (Note 4)	1145959.19	651106.36	Pre-1995 (estimated)	789.50	791.00	1.5	NA	NA	73	58 and 68	63 and 73	NA	5 and 5	NA	NA	Abandoned
MW-09 (Note 4)	1147320.00	648809.00	Pre-1995 (estimated)	748.10	750.02	1.9	NA	NA	28	23	28	29.9	5	725.10	720.10	Abandoned
MW-20	1147142.00	648862.00	June 1986	NS	752.43	NA	NA	NA	24	19	24	NA	5	NA	NA	Abandoned
MW-22	NA	NA	Pre-1995 (estimated)	NS	NS	NA	NA	NA	24	19	24	NA	5	NA	NA	Abandoned
OW-06 (Note 5)	1146226.77	650659.00	May 1985	787.00	788.71	1.7	NA	NA	43	38	43	44.7	5	749.00	744.00	Abandoned
OW-08	1146604.44	650304.69	May 1985	NA	NA	NA	NA	NA	24	19	24	NA	5	NA	NA	Abandoned
OW-21	1147523.72	649204.87	June 1986	739.10	742.83	3.7	NA	NA	36	26	36	39.7	10	713.10	703.10	Abandoned
P-11-C	NA	NA	October 1980	NS	854.59	NA	NA	NA	75	70	75	NA	5	NA	NA	Abandoned
P-12-C	NA	NA	October 1980	NS	792.93	NA	NA	NA	40	35	40	NA	5	NS	NS	Abandoned
P-7-C	NA	NA	October 1980	NS	874.64	NA	NA	NA	70	65	70	NA	5	NS	NS	Abandoned
PZ-01 (Note 4)	1147144.16	648840.91	April 1991	753.08	754.92	1.8	NA	NA	52	45	50	51.8	5	708.08	703.08	Abandoned
PZ-02 (Note 4)	1147175.00	648893.30	April 1991	751.28	753.46	2.2	NA	NA	51	45	50	52.2	5	706.28	701.28	Abandoned
PZ-02A (Note 4)	1147170.46	648888.48	September 1991	751.85	753.05	1.2	NA	NA	35	28	33	34.2	5	723.85	718.85	Abandoned
PZ-03 (Note 4)	1147235.16	648965.57	April 1991	748.97	750.97	2.0	NA	NA	50.5	43.6	48.6	50.6	5	705.37	700.37	Abandoned
PZ-03A (Note 4)	1147235.06	648968.94	September 1991	748.69	750.69	2.0	NA	NA	34	28	33	35.0	5	720.69	715.69	Abandoned
PZ-04 (Note 4)	1147266.52	649019.69	April 1991	747.80	750.47	2.7	NA	NA	53.5	45	50	52.7	5	702.80	697.80	Abandoned
PZ-04A (Note 4)	1147267.65	649024.11	September 1991	747.73	749.73	2.0	NA	NA	31	25	30	32.0	5	722.73	717.73	Abandoned
PZ-04B (Note 4)	1147257.90	649007.00	September 1991	748.00	750.00	2.0	NA	NA	34	28	33	35.0	5	720.00	715.00	Abandoned
PZ-04C (Note 4)	1147249.04	648995.02	September 1991	748.53	750.35	1.8	NA	NA	34	28	33	34.8	5	720.53	715.53	Abandoned
PZ-05 (Note 4)	1147305.47	649087.47	April 1991	746.58	749.00	2.4	NA	NA	50.2	45	50	52.4	5	701.58	696.58	Abandoned
PZ-05A (Note 4)	1147306.28	649091.23	September 1991	746.22	748.22	2.0	NA	NA	27	21	26	28.0	5	725.22	720.22	Abandoned

GSI ENVIRONMENTAL

TABLE A
WELL CONSTRUCTION SPECIFICATIONS

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Northing (Note)	Easting (Note)	Date Installed	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Stick-up (Elevations) (ft) (Note 6)	Stick-up (Measured) (ft) (Note 7)	Stick up Difference (ft)	Approximate Boring Depth (ft bgs)	Approximate Top of Screen (ft bgs)	Approximate Bottom of Screen (ft bgs)	Total Well Depth (to Bottom of Screen) (ft btoc)	Screened Interval Length (ft)	Top of Screen (ft msl)	Bottom of Screen (ft msl)	Well Type
Abandoned Wells (Continued)																
PZ-06 (Note 4)	1147350.80	649162.93	April 1991	745.85	747.52	1.7	NA	NA	55	45	50	51.7	5	700.85	695.85	Abandoned
PZ-06A (Note 4)	1147348.68	649165.40	September 1991	745.53	747.20	1.7	NA	NA	30	24	29	30.7	5	721.53	716.53	Abandoned
PZ-07 (Note 4)	1147387.90	649233.41	April 1991	744.85	746.85	2.0	NA	NA	55	45	50	52.0	5	699.85	694.85	Abandoned
PZ-17C	1145032.26	650121.87	October 1980	823.30	825.64	2.3	NA	NA	31	26	31	33.3	5	797.30	792.30	Abandoned
PZ-20B (Note 4)	1147144.21	648896.65	Pre-1995 (estimated)	751.87	754.08	2.2	NA	NA	25	NA	NA	NA	NA	NA	NA	Abandoned
T-8	1148356.55	650241.87	April 2008	724.65	727.59	2.9	2.9	0.0	25	15	25	27.9	10	709.65	699.65	Abandoned
T-12	1148436.92	650149.56	April 2008	724.88	727.88	3.0	3.0	0.0	28	18	28	31.0	10	706.88	696.88	Abandoned
T-13	1148354.67	654352.57	August 2010	711.22	714.25	3.0	3.0	0.0	35	24	34	37.0	10	687.22	677.22	Abandoned
T-14	1146450.19	655874.83	August 2010	678.97	681.69	2.7	2.7	0.0	17	10	17	19.7	7	668.97	661.97	Abandoned
T-15	1144643.05	656977.08	August 2010	667.36	670.32	3.0	3.0	0.0	18	10	18	21.0	8	657.36	649.36	Abandoned
T-17	1130535.33	658846.48	January 2012	605.81	605.46	-0.3	NA	NA	14	3.5	13.5	13.2	10	602.31	592.31	Abandoned

Notes:
1. Well locations are shown on Figure 2.
2. ft = Feet
   ft bgs = Feet Below Ground Surface
   ft btoc = Feet Below Top of Casing
   ft msl = Feet Above Mean Sea Level
   NA = Not Available
   NS = Not Surveyed
   RFI = Resource Conservation Recovery Act (RCRA) Facility Investigation
   SSSMA = South Staging and Soil Management Area
3. Northing and Easting reported for UTM Zone 16N.
4. Stick-up estimated based on ground surface elevation.
5. Ground surface around well may have been modified after well installed. Ground surface elevation reflects most recent measured elevation.
6. Stick-up measurement based on well construction logs or difference between top of casing and ground elevation where indicated.
7. Stick-up measurement taken on October 2007, except for T-7 to T-12 (October 2008) and T-13 to T-15 (August 2010).

GSI Job No. 5739

2020 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia, Inc., Anniston, Alabama
RCRA Post-Closure Permit ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX B: PURGING LOGS

MAY 2020 PURGING LOGS

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GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418 / 5419 Date: 5/13/2020 Personnel: JL, STR

Project: Solutia, Anniston Client: Solutia Page: 1 of 1

Well ID: MW-20A Starting Water Level 8.71 Time: 9:14

Total Depth: 25.67 Ending Water Level 13.69 Time: 10:21

Purging Time: On: 9:27 → 9:30 (shut off pump) → 9:42 Evacuation Method: Dedicated bladder pump w/ teflon-lined poly tubing

Off: 10:30 Volume in Well (gallons): 2.77

Well Depth: ~~25.3'~~ Evacuation Rate (gal/min): 0.077

Screen Depth: 20.3'-25.3' Total Volume Removed (gallons): ~3.00 gal

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
9:42	12.07	100	18.9	6.88	N/A	1510	0.77	51.5	clear / No odor
9:45	13.17	100	18.7	6.82	13.1	1508	0.73	43.0	clear / No odor
9:48	13.20	100	18.8	6.82	13.1	1508	0.69	31.4	" / "
9:51	13.26	100	18.9	6.82	11.4	1510	0.71	21.3	" / "
9:54	13.29	100	18.9	6.83	13.0	1511	0.68	9.6	SL odor / clear
9:57	13.31	100	18.8	6.83	13.0	1511	0.64	-0.2	SL odor / clear
10:00	13.40	100	18.8	6.81	17.1	1512	0.62	-6.5	SL odor / clear
10:03	13.45	100	18.8	6.75	18.5	1513	0.60	-15.1	SL odor / clear
10:06	13.51	100	18.8	6.81	19.3	1512	0.59	-21.6	SL odor / clear
10:09	13.56	100	18.8	6.83	19.5	1511	0.59	-29.5	SL odor / clear
10:12	13.59	100	18.8	6.81	19.1	1511	0.57	-39.8	SL odor / clear
10:15	13.65	100	18.9	6.81	20.2	1511	0.56	-47.7	No odor / clear
10:18	13.69	100	18.9	6.81	19.8	1510	0.55	-51.7	No odor / clear
10:21	13.69	100	18.9	6.81	19.9	1510	0.55	-55.1	SL odor / clear

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	± 3 °C
pH:	+/- ~~0.1~~ Standard Units ± 0.1
Specific Conductivity:	~~± 3%~~ ± 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	10% (or last DO if greater than 0.5 mg/L
Turbidity:	10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:
25.67 - 8.71

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418/5419 WG Date: 5/13/20 Personnel: WRG

Project: Anniston GW sampling Client: Solutia Page: 1 of 1

Well ID: MW-15 Starting Water Level: 12.7 Time: 10:06

Total Depth: 16.70 ft TD Not Measured btoc to pump Ending Water Level: 12.56 Time: 10:36

Purging Time: On: 10:03 Off: 10:36 Evacuation Method: ded. bladder pump, teflon-lined tubing

Well Depth: 27.7 ft. btoc Volume in Well (gallons): 2.43 gal.

Screen Depth: 19-24' bgs Evacuation Rate (gal/min): 300 mL/min = ~~0.079~~ 0.083 gpm WG

Total Volume Removed (gallons): 2.5 gallons

PURGING DATA AND FIELD PARAMETERS

6.45

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Specific Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
10:06	12.71	500 mL/min	18.7	6.48	36.1	0.008	~~0.008~~ WG	152.9	sl. yellow no odor
10:09	12.68	375 mL/min	18.7	6.59	43.8	0.007	6.73	162.5	clear no odor
10:12	12.35	150 mL/min	18.7	6.15	33.3	0.007	6.16	158.7	clear no odor
10:15	12.36	250 mL/min	19.0	6.08	25.9	0.007	6.97	150.1	clear no odor
10:18	12.26	250 mL/min	19.0	6.18	16.9	0.536	1.31	120.4	clear no odor
10:22	12.50	300 mL/min	18.8	5.70	11.9	0.532	1.22	120.3	clear no odor
10:25	12.51	300 mL/min	18.8	5.62	13.5	0.529	1.21	121.0	clear no odor
10:28	12.52	275 mL/min	18.8	5.57	9.01	0.524	1.18	121.2	clear no odor
10:31	12.55	300 mL/min	18.8	5.55	8.46	0.522	1.16	121.1	clear no odor
10:34	12.56	300 mL/min	18.9	5.53	7.56	0.517	1.10	120.8	clear no odor

Stabilization Requirements as per SOP A-10 and EPA 540 for Low-Flow/Minimal Drawdown Groundwater Sample Collection
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Std. Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L: +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTUs: +/- 10% if turbidity is greater than 10 NTUs

YSI flow through connections corrected @ 10:17 (Spec. Cond. conductivity for first 4 readings was not reading correctly due to sensor out of water)

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418 | Date: 5/13/20 | Personnel: WKG

Project: Solutia Anniston GW sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-16 | Starting Water Level: 25.19 | Time: 12:57

Total Depth: 63.57 ft. btoc 70.57 ft. btoc TD to pump | Ending Water Level: 28.98 | Time: 13:28

Purging Time On: 13:00

Off: 13:28

Well Depth: 71.1 btoc

Screen Depth: 58-68 ft. bgs

Evacuation Method: ded. bladder pump & teflon tubing

Volume in Well (gallons): 7.366 gal.

Evacuation Rate (gal/min): ~~0.25~~ gpm 0.032 gpm

Total Volume Removed (gallons): <1 gal.

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (gal/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
13:03	26.61	275 ml/min	19.8	4.32	3.74	0.063	3.33	142.3	clear, no odor
13:06	27.87	200 ml/min	19.8	4.01	5.08	0.063	1.70	145.6	sl. yellow, no odor
13:09	28.07	100 ml/min	21.1	4.00	7.76	0.065	1.42	149.9	~~sl.~~ yellow no odor
13:13	28.17	100 ml/min	21.5	3.99	9.32	0.065	1.58	151.7	yellow
13:16	28.34	100 ml/min	21.5	4.01	10.8	0.066	1.32	150.8	yellow, ~~sl.~~ strong odor
13:19	28.58	100 ml/min	21.4	4.02	11.7	0.065	1.29	150.7	yellow, sl. odor
13:22	28.65	100 ml/min	21.4	4.03	12.4	0.064	1.29	150.0	yellow, sl. odor
13:25	28.82	100 ml/min	21.5	4.05	12.2	0.064	1.30	149.6	yellow, sl. odor
13:28	28.98	100 ml/min	21.9	4.11	11.7	0.066	1.32	149.1	yellow, no odor

Stabilization Requirements as per QAPP and EPA SOP for Low Flow/Minimal Drawdown Groundwater Sampling Procedures.
Three successive readings within 3 intervals to be as follows:

Turbidity:	+/- 5 %
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
[illegible]	[illegible]
[illegible]	[illegible]

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418 | Date: 5/13/20 | Personnel: WRG

Project: Solutia GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: OW-16A | Starting Water Level: 12.05 ft. btoc | Time: 16:07

Total Depth: 35.17 | Ending Water Level: 13.50 ft. btoc | Time: 16:29

Purging Time On: ~~16:09~~ WG 16:11 | Evacuation Method: ded. bladder pump w/ teflon tubing

Off: 16:29 | Volume in Well (gallons): 3.75 gal.

Well Depth: 35.1 | Evacuation Rate (gal/min): ~~0.17 gpm~~ WG 0.068 gpm

Screen Depth: 25.1 | Total Volume Removed (gallons): 1.5 gal.

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (mmhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
16:14	14.50	500 mL/min	17.3	4.74	11.7	0.199	5.22	142.7	clear no odor
16:17	14.05	100 mL/min	18.2	4.33	3.60	0.201	4.34	159.5	clear no odor
16:20	13.84	150 mL/min	18.2	4.32	3.28	0.202	4.17	159.5	clear no odor
16:23	13.71	200 mL/min	18.1	4.33	3.51	0.201	4.02	158.4	clear no odor
16:26	13.58	150 mL/min	18.2	4.36	3.83	0.201	3.71	156.8	clear no odor
16:29	13.50	150 mL/min	18.2	4.39	3.25	0.201	3.96	156.6	clear no odor

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolve Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418/5419 | Date: 5-13-20 | Personnel: STR, JL

Project: Annual April GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: OW-15 | Starting Water Level: 8.79 | Time: 15:56

Total Depth: 44.98 | Ending Water Level: 14.84 | Time: 16:21

Purging Time On: 16:05 | Evacuation Method: Dedicated bladder pump

Off: 16:21 | Volume in Well (gallons): 5.90 gal

Well Depth: 42.9 | Evacuation Rate (gal/min): .04 gal/min

Screen Depth: 37.9 - 42.9 | Total Volume Removed (gallons): ~ 3.5 gal

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1605	9.82	300	17.2	5.81	2.24	145.0	5.78	97.1	clear/no odor
1608	11.43	200	17.4	5.28	0.83	142.4	5.19	108.0	clear/no odor
1612	12.52	250	17.2	5.20	0.51	141.6	5.17	111.7	" / "
1615	13.24	250	17.2	5.09	0.50	140.1	5.16	117.9	" / "
1618	14.08	150	17.2	5.00	0.53	139.6	5.53	119.8	" / "
1621	14.84	150	17.4	5.03	0.44	139.2	5.65	117.1	" / "
~~1624~~									

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418/5419 | Date: 5-14-20 | Personnel: STR, JL

Project: Annual April GW Sampling | Client: Solutia | Page: 1 of 2

Well ID: OWR-13 | Starting Water Level: 17.78 | Time: 15:31

Total Depth: 38.85 | Ending Water Level: 17.82 | Time: 17:26

Purging Time On: 15:49 | Evacuation Method: Portable Bladder Pump

Off: 17:26 | Volume in Well (gallons): 3.44

Well Depth: 38.7 | Evacuation Rate (gal/min): ~~0.09~~ 0.093

Screen Depth: 28.7 - 38.7 | Total Volume Removed (gallons): ~9 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
15:49	17.76	100	20.9	5.72	602	198.3	6.39	100.0	Light brown/No odor
15:52	17.78	125	20.4	5.14	487	189.6	5.64	114.8	
	540p pump								
1556	17.87	150	19.9	4.85	OOR	185.9	5.70	124.6	Light brown/No odor
1559	17.82	250	19.6	4.84	TOR	185.6	5.14	125.6	" / "
1602	17.80	200	19.6	4.86	819	185.4	4.95	125.1	" / "
1605	17.80	200	19.6	4.89	487	185.3	5.32	123.7	" / "
1608	17.82	200	19.5	5.01	377	185.5	5.17	118.9	" / "
1611	17.82	200	19.5	5.06	345	186.6	5.06	117.0	" / "
1614	17.84	200	19.5	5.08	388	187.4	4.98	117.0	" / "
1617	17.85	250	19.5	5.10	370	188.4	4.99	116.0	" / "
1620	17.84	200	19.5	5.11	262	190.4	4.91	117.1	" / "
1623	17.84	200	19.4	5.12	215	192.2	4.87	118.6	" / "
1626	17.84	200	19.4	5.12	250	195.3	4.75	119.6	" / "
1629	17.84	250	19.4	5.16	204	196.7	4.72	118.4	" / "
1632	17.82	250	19.3	5.16	221	198.0	4.60	119.0	" / "
1635	17.82	250	19.3	5.18	241	199.7	4.62	118.3	" / "
1638	17.82	300	19.2	5.19	334	200.8	4.59	118.7	" / "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

38.85 - 17.78 = 21.07

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418/5419 | Date: 5-14-20 | Personnel: STR, JL

Project: Annual April GW Sampling. | Client: Solutia | Page: 2 of 2

Well ID: OWR-13 | Starting Water Level: 17.78 | Time: 15:31

Total Depth: 38.85 | Ending Water Level: 17.82 | Time: 1726

Purging Time: On: 15:49 | Evacuation Method: Portable Bladder Pump

Off: 1726 | Volume in Well (gallons): 3.44

Well Depth: 38.7 | Evacuation Rate (gal/min): ~~0.053 (@ 200 ml/min) | 0.079 (@ 300 ml/min)~~ 0.093

Screen Depth: 28.7 - 38.7 | Total Volume Removed (gallons): ~~12 gallons~~ ~9 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Purging Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Specific Conductance (mS/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1641	17.83	300	19.2	5.19	161	203.5	4.59	119.4	Light brown / mo odor
1644	17.83	300	19.3	5.23	171	204.1	4.90	117.6	" / "
1647	17.80	300	19.3	5.25	113	206.6	7.28	117.3	" / "
1650	17.79	300	19.2	5.27	77.7	207.7	5.14	117.0	" / "
1653	17.83	300	19.2	5.28	88.2	207.9	4.94	117.0	" / "
1656	17.85	300	19.1	5.27	46.2	207.5	4.94	117.4	" / " → more opaque
1659	17.84	300	19.2	5.25	24.9	206.1	4.86	117.4	" / " → less opaque
1702	17.84	300	19.2	5.29	10.4	206.3	4.88	116.9	" / "
1705	17.82	300	19.2	5.27	10.5	206.2	4.88	116.9	" / "
1708	17.81	300	19.2	5.29	12.9	208.3	4.84	116.8	" / "
1711	17.82	300	19.1	5.29	80.9	209.2	4.77	116.8	" / "
1714	17.85	300	19.1	5.29	68.7	208.9	4.73	117.1	" / "
1717	17.82	300	19.2	5.30	38.2	208.9	4.75	117.0	" / "
1720	17.82	310	19.1	5.30	32.4	209.5	4.76	117.3	" / "
1723	17.81	300	19.2	5.31	31.4	210.0	4.78	117.2	partly cloudy / "
1726	17.82	300	19.1	5.32	32.5	210.3	4.74	117.1	" / "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
The two consecutive readings every 3 to 5 minutes to include:

[illegible]	+/- 3%
[illegible]	+/- 0.1 Standard Units
[illegible]	+/- 3%
[illegible]	+/- 10 mV
[illegible]	+/- 0.3 mg/L +/- 10% if DO is greater than 0.5 mg/L
[illegible]	+/- 10 NTUs +/- 10% if turbidity is greater than 10 NTUs

Notes:
Shut off pump 1815

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418/5419 | Date: 5/14/20 | Personnel: JL

Project: Anniston GW | Client: Solutia | Page: 1 of 1

Well ID: Well-04 | Starting Water Level: 29.02 | Time: 10:47

Total Depth: 51.01 | Ending Water Level: 35.26 | Time: 11:17

Purging Time On: 10:40 | Evacuation Method: portable bladder pump

Off: 11:17 | Volume in Well (gallons): 3.58 gal

Well Depth: 47.3 | Evacuation Rate (gal/min): 0.05 gal/min

Screen Depth: 37.3-47.3 | Total Volume Removed (gallons): 2 gal

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
10:40	29.20	200	19.1	6.53	83.7	72.1	4.47	107.3	SL cloudy / NO odor
10:43	29.64	210	18.4	4.98	87.6	66.5	2.06	141.4	SL cloudy / NO odor
10:46	30.57	180	18.5	4.71	81.2	66.7	2.04	146.9	SL cloudy / No odor
10:49	30.78	180	18.5	4.62	73.2	66.7	1.92	148.0	SL cloud, No odor
10:52	31.33	150	18.5	4.57	64.4	65.0	1.89	147.3	SL cloud, NO Odor
10:55	31.88	150	18.5	4.54	53.9	65.4	1.97	146.2	" / "
10:58	32.48	150	18.4	4.60	36.3	66.9	2.16	143.6	" / "
11:02	22.95	150	18.5	4.66	23.6	68.3	2.30	141.2	" / "
11:05	33.50	150	18.5	4.69	14.9	70.2	2.56	139.3	" / "
11:08	34.12	150	18.5	4.73	10.9	71.4	2.68	136.4	" / "
11:11	34.70	"	18.5	4.76	8.36	72.0	2.76	135.6	" / "
11:14	33.74	"	18.5	4.76	8.03	72.0	2.84	134.3	" / "
11:17	35.26	"	18.5	4.76	6.26	72.3	2.91	133.2	" / "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	+/- 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes: Shut pump of @ 12:05

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5419 | Date: 5/14/20 | Personnel: WRG
Project: Anniston GW sampling | Client: Solutia | Page: 1 of 1
Well ID: OWR-035 | Starting Water Level: 10.12 ft. btoc | Time: 10:42
9.15 ft. w/pump in place @ 11:05
Total Depth: 37.23 ft btoc | Ending Water Level: 15.83 | Time: 11:56

Purging Time: On: 11:23 | Evacuation Method: portable bladder pump w/polytubing
Off: 11:56 | Volume in Well (gallons): 4.39 gal
Well Depth: 37.9 | Evacuation Rate (gal/min): ~~0.06 gpm~~ 0.014 gpm
Screen Depth: 27.9 | Total Volume Removed (gallons): ~1 gal.

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
11:26	10.13	300	20.2	537	41.1	143.8	~~5.58~~ 0.99	122.0	clear, no odor
11:29	11.80	150	21.0	4.94	38.3	140.2	0.97	122.4	clear, no odor
11:32	12.13	175	20.8	4.79	31.3	139.3	0.80	122.4	clear, no odor
11:35	12.75	175	20.8	4.76	25.7	139.7	0.73	122.2	clear, no odor
11:38	12.97	<100	20.3	4.75	18.0	137.7	0.72	122.5	clear, no odor
11:41	13.36	150	21.0	4.73	20.8	135.9	0.67	121.8	clear, no odor
11:44	13.78	175	20.8	4.72	20.3	135.3	0.54	121.1	clear, no odor
11:47	14.24	150	20.8	4.71	21.6	134.6	0.50	121.0	clear, no odor
11:50	14.78	150	20.8	4.71	18.7	135.0	0.45	121.1	clear, no odor
11:53	15.21	150	20.9	4.73	17.8	135.7	0.44	121.0	clear, no odor
11:56	15.83	150	21.0	4.72	17.3	134.7	0.42	121.1	clear, no odor

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	+/- 10% (if DO is greater than 0.5 mg/L
Turbidity:	+/- 10% (if turbidity is greater than 10 NTUs

Notes:
pump depth @ 32.9

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5419 | Date: 5/14/20 | Personnel: WRG

Project: Anniston GW sampling | Client: Solutia | Page: 1 of 1

Well ID: T-18 | Starting Water Level: 4.73 ft btoc (3.82 w/pump) | Time: 13:06 @ 13:19

Total Depth: 26.57 | Ending Water Level: 12.30 | Time: 14:04

Purging Time On: 13:22 | Evacuation Method: bladder pump w/polytubing

Off: 14:04 | Volume in Well (gallons): 3.53 gal.

Well Depth: 25.7 | Evacuation Rate (gal/min): ~~0.06 gpm~~ 0.034 gpm

Screen Depth: 15.7 | Total Volume Removed (gallons): ~2.0 gal

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
13:25	4.26	175	22.3	5.42	207	283.7	0.95	94.8	cloudy, light brown
13:28	5.01	175	21.8	5.33	419	283.2	0.60	94.3	cloudy, tan
13:31	5.99	175	21.7	5.25	431	282.6	0.48	96.2	cloudy, tan
13:34	6.44	175	21.7	5.15	424	282.6	0.40	99.7	cloudy, tan
13:37	7.14	200	21.8	5.13	380	282.5	0.34	100.5	cloudy, tan
13:40	7.83	200	21.6	5.09	319	282.3	0.31	100.1	cloudy, tan
13:43	8.49	200	21.7	5.10	196	282.3	0.28	99.0	cloudy, tan
13:46	9.23	200	21.8	5.12	122	282.2	0.27	97.3	cloudy, tan
13:49	9.81	200	21.7	5.15	55.6	283.0	0.24	96.0	cloudy, tan
13:52	10.43	200	21.7	5.17	33.0	282.6	0.23	95.1	cloudy, tan clear
13:55	11.02	150	21.7	5.22	27.3	282.6	0.22	94.4	~~cloudy, tan~~ clear w/
13:58	11.29	150	22.7	5.19	25.0	282.4	0.22	93.5	~~cloudy, tan~~ clear w/
14:01	11.77	150	21.9	5.17	24.8	283.3	0.23	92.9	clear, no odor
14:04	12.30	150	21.9	5.20	23.8	282.7	0.22	92.6	clear, no odor

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	+/- 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

pump set to 20.7 ft.

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 2419 | Date: 5/14/20 | Personnel: WRG

Project: Anniston GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: T-06 | Starting Water Level: 76.69 (w/pump in well) | Time: 16:48

Total Depth: 124.8 | Ending Water Level: 76.75 | Time: 17:38

Purging Time On: 16:50; water to surface @ 17:05 | Evacuation Method: bladder pump w/ polytubing

Off: 17:38 | Volume in Well (gallons): 7.78 gal.

Well Depth: 124.8 | Evacuation Rate (gal/min): ~~0.10~~ gpm 0.02 gpm

Screen Depth: 114.8 | Total Volume Removed (gallons): ~1 gal.

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
17:06	76.71	<100	24.1	6.27	24.8	90.8	8.76	113.6	clear, no odor
17:09	76.70	<100	23.6	6.34	26.4	165.6	5.76	112.9	clear no odor
17:12	76.72	150	21.7	6.19	29.1	397.4	5.17	123.7	clear, no odor
17:16	76.77	150	20.7	6.43	30.0	553	3.36	127.1	clear, no odor
17:20	76.75	150	20.8	6.56	25.8	582	3.18	128.3	clear, no odor
17:23	76.76	150	20.8	6.62	24.7	632	2.83	127.3	clear, no odor
17:26	76.78	150	20.9	6.71	22.0	1068	2.98	125.9	clear, no odor
17:29	76.76	150	20.9	6.76	22.9	683	2.72	124.7	clear, no odor
17:32	76.75	150	20.9	6.79	20.1	690	2.80	123.8	clear, no odor
17:35	76.75	150	20.8	6.82	20.8	695	2.90	123.3	clear, no odor
17:38	76.75	150	20.7	6.85	19.8	692	3.02	122.5	clear, no odor

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

pump set at 119.8

controller set to 5.0 Refill
10.0 Disch.

ID 113

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5419 | Date: 5/15/20 | Personnel: WRG

Project: Anniston GW sampling | Client: WRG | Page: 1 of 1

Well ID: OWR-11 | Starting Water Level: 8.88 | Time: 12:04

w/o pump: 9.38 ft. btoc @ 11:58

Total Depth: ~~ATWD~~ 37.45 | Ending Water Level: 14.93 | Time: 12:35

Purging Time On: 12:04 | Evacuation Method: bladder pump w/polytubing

Off: 12:35 | Volume in Well (gallons): 4.162 gal

Well Depth: 37.9 ft. btoc | Evacuation Rate (gal/min): 0.065 gpm

Screen Depth: 27.9 ft. btoc | Total Volume Removed (gallons): ~2 gal.

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
12:07	9.82	200	19.2	4.06	101	418.8	0.59	251.7	clear, no odor
12:11	10.75	200	18.8	3.93	118	419.6	0.35	259.1	" "
12:15	11.88	200	18.9	3.90	109	419.5	0.27	264.0	" "
12:19	12.45	200	18.8	3.93	71	419.6	0.23	265.9	" "
12:22	12.78	200	18.9	3.88	43.1	420.2	0.18	266.9	" "
12:26	13.15	200	18.8	3.90	34.6	419.2	0.16	266.5	" "
12:29	13.45	200	18.9	3.94	25.4	418.8	0.15	266.1	" "
12:32	14.73	200	18.9	3.95	25.8	418.8	0.14	265.8	" "
12:35	14.93	200	18.8	3.92	23.5	417.5	0.14	265.0	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.3 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

pump depth = 32.9 ft

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418/5419 Date: 5/15/20 Personnel: JL

Project: Anniston GW Client: Solutia Page: 1 of 1

Well ID: OW-10 Starting Water Level 11.55 Time: 11:41

Total Depth: 39.70 Ending Water Level 15:16 Time: 12:06

Purging Time: On: 11:45 Evacuation Method: portable bladder pump

Off: 12:06 Volume in Well (gallons): 4.59 gal

Well Depth: 40.2 Evacuation Rate (gal/min): 0.05 gal / min

Screen Depth: 35.0 - 40.0 Total Volume Removed (gallons): 1.5 gal

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
11:45	12.16	100	21.2	7.15	29.8	1044	6.88	143.5	clear/no odor
11:48	12.62	200	20.4	6.56	20.5	1047	5.16	133.7	" / "
11:51	13.14	150	19.5	6.49	16.6	1035	4.71	125.0	" / "
11:54	13.44	100	20.2	6.48	14.0	1025	4.34	119.4	" / "
11:57	13.86	100	19.9	6.55	13.1	1032	4.11	111.0	" / "
12:00	14.20	150	20.1	6.59	10.8	1031	4.05	106.8	" / "
12:03	14.58	150	20.1	6.56	10.4	1028	4.02	103.3	" / "
12:06	15.16	150	20.3	6.59	10.4	1028	4.01	97.5	" / "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if readings are greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if readings are greater than 10 NTUs

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5419 | Date: 5/15/20 | Personnel: WRG

Project: Anniston GW sampling | Client: WE ~~[redacted]~~ Solutia | Page: 1 of 1

Well ID: OWE-15D | Starting Water Level: 15.76 w/o pump @ 8:39; 14.84 ft. btoc w/ pump | Time: 8:48

Total Depth: 66.51 ft. btoc | Ending Water Level: 22.32 | Time: 9:22

Purging Time: On: 8:51 | Off: 9:22 | Evacuation Method: bladder pump w/ polytubing

Well Depth: 66.5 ft. | Volume in Well (gallons): 8.20 gal

Screen Depth: 56.5 ft. | Evacuation Rate (gal/min): 0.06 gpm

Total Volume Removed (gallons): ~2 gal.

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
8:55	15.25	400	17.4	5.66	24.0	196.5	6.01	244.5	clear, no odor
8:58	16.98	400	17.4	5.30	19.7	190.7	5.27	243.6	clear, no odor
9:01	17.99	175	17.7	5.28	16.1	190.0	5.12	241.5	clear, no odor
9:04	18.36	150	17.8	5.28	14.4	188.8	5.39	239.6	clear, no odor
9:07	19.20	175	17.5	5.26	13.2	185.8	5.72	238.4	clear, no odor
9:10	20.24	200	17.5	5.24	10.2	183.5	5.75	237.7	clear, no odor
9:13	20.75	175	17.8	5.23	10.7	182.9	5.44	236.8	clear, no odor
9:16	21.26	175	17.7	5.23	7.97	181.8	5.33	237.1	clear, no odor
9:19	21.92	200	17.7	5.23	7.45	181.5	5.47	236.2	clear, no odor
9:22	22.32	200	17.8	5.20	6.45	180.7	5.30	236.3	clear, no odor

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	+/- 10% (DO is greater than 0.5 mg/L
Turbidity:	+/- 10 NTU or +/- 10% (if turbidity is greater than 10 NTUs

Notes:

pump set to 61.5 ft. btoc

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418/5419 Date: 5/15/20 Personnel: STR, JL

Project: Annual GW Sample Client: Solutia Page: 1 of 1

Well ID: OWR 14-D Starting Water Level: 66.30 Time: 8:41

Total Depth: 82.11 Ending Water Level: 68.20 Time: 9:25

Purging Time: On: 9:04 Evacuation Method: Portable bladder pump

Off: 9:25 Volume in Well (gallons): 2.58 gallons

Well Depth: 81.5 Evacuation Rate (gal/min): ~~0.034~~ 0.048

Screen Depth: 71.5 - 81.5 Total Volume Removed (gallons): ~1 gallon

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft BGS)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (mS/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
9:04	66.66	100	20.0	7.14	50.8	579	4.424	94.5	SL cloudy, No odor
9:07	66.89	120	19.8	7.09	47.2	580	2.56	92.0	SL cloudy, No odor
9:10	67.25	120	19.5	7.04	42.7	580	2.24	90.3	Clear, No odor
9:13	67.44	150	19.6	7.00	38.6	578	2.05	89.5	Clear, No odor
9:16	67.66	110	19.6	7.00	36.7	578	1.97	87.4	Clear, No odor
9:19	67.79	130	19.6	6.99	35.8	578	1.78	84.8	Clear, No odor
9:22	68.00	130	19.6	6.99	38.7	576	1.76	82.6	Clear, No odor
9:25	68.20	130	19.6	7.00	37.3	~~5.76~~ 576 µS	1.63	78.9	Clear, No odor

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.

These criteria must be met for 3 consecutive readings to include:

Temperature	+/- 3 °C
pH	+/- 0.1 Standard Units
Specific Conductivity	+/- 3%
ORP	+/- 10 mV
Turbidity	< 10 NTU, if not, then +/- 10% for values greater than 10 NTUs
Dissolved Oxygen	< 10 mg/L, if not, then +/- 10% for values greater than 10 mg/L

Notes:

Stopped sampling @ 12:21

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5419 | Date: 5-15-20 | Personnel: STR

Project: Spring GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: T-20 | Starting Water Level: 7.13 | Time: 1748

Total Depth: 37.39 | Ending Water Level: 8.30 | Time: 1824

Purging Time On: 1812 | Evacuation Method: Portable Bladder

Off: 1824 | Volume in Well (gallons): 4" well → 19.76

Well Depth: 37.2' | Evacuation Rate (gal/min): ~~0.079~~ 0.167

Screen Depth: 27.2' - 37.2' | Total Volume Removed (gallons): ~2

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft bTOC)	Purging Rate (mL/min)	Temperature (°F/°C)	pH	Turbidity (NTU)	Spec. Cond. (mS/cm or uS/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1812	7.12	300	18.3	4.31	3.57	309.0	5.20	141.5	clear / no odor
1815	7.42	300	18.1	3.91	3.50	304.3	4.51	30147.5	" / "
1818	7.70	300	18.0	3.72	3.48	303.4	4.39	153.6	" / slight odor
1821	8.13	300	18.0	3.66	3.05	303.3	4.33	156.4	clear / no odor
1824	8.30	280	18.0	3.62	4.31	303.1	4.37	158.5	" / slight odor

Stabilization Requirements per SOP A-10 and EPA 301 for Low-Flow/Minimal Drawdown Groundwater Sample Collection

Three successive readings obtained within 5 minutes to include:

Temperature	+/- 3 °C
pH	+/- 0.1 Standard Units
Specific Conductance	+/- 3%
ORP	+/- 10 mV
Turbidity	+/- 10% for values greater than 0.5 mg/L
Dissolved Oxygen	+/- 10% for values greater than 0.5 mg/L

Notes:

~~4" well~~ 4" Diameter Well

Pump @ 32'

37.39 - 7.13 = 30.26

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: ~~5418~~ 5419 Date: 5-15-20 Personnel: STR

Project: Spring GW Sampling Client: Solutia Page: 1 of

Well ID: wel-01 Starting Water Level 17.06 Time: 14:20

Total Depth: 34.60 Ending Water Level 17.41 Time: 15:13

Purging Time: On: ~~17~~ STR 1446 Evacuation Method: Portable Bladder Pump

Off: 1513 Volume in Well (gallons): 2.86

Well Depth: 30.6' Evacuation Rate (gal/min): ~~0.079~~ 0.111

Screen Depth: 20.6' - 30.6' BTOC Total Volume Removed (gallons): ~3 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1446	17.49	310	17.7	5.77	57.3	71.9	7.66	96.0	Slightly cloudy / no odor
1449	17.41	300	16.9	4.84	56.1	67.7	5.72	116.9	" / "
1452	17.39	300	16.7	4.72	24.4	67.5	5.70	121.1	clear / no odor
1455	17.38	300	16.5	4.60	9.79	68.7	5.19	126.1	" / "
1458	17.35	300	16.4	4.50	5.34	71.9	4.86	130.9	" / "
1501	17.40	300	16.3	4.47	3.95	75.7	4.50	131.9	" / "
1504	17.39	300	16.3	4.47	3.13	78.7	4.34	131.7	" / "
1507	17.42	300	16.2	4.51	3.00	83.4	4.05	130.2	" / "
1510	17.44	300	16.2	4.53	2.46	84.4	3.98	128.0	" / "
1513	17.41	300	16.2	4.55	2.52	85.0	3.95	127.1	" / "
~~TSHG~~									

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 5%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTUs +/- 10% if turbidity is greater than 10 NTUs

Notes:

Pump @ 25'.

34.60 - 17.06 = 17.54

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: ~~5418~~ /5419 | Date: 5/15/20 | Personnel: JL

Project: Anniston GW | Client: Solutia | Page: 1 of 1

Well ID: OW-9A | Starting Water Level: 11.51 | Time: 18:17

Total Depth: 25.30 | Ending Water Level: 11.67 | Time: 18:26

Purging Time: On: 18:14 | Evacuation Method: Dedicated bladder pump w teflon lined Tubes

Off: 18:26 | Volume in Well (gallons): 2.24 gal

Well Depth: 25.4 | Evacuation Rate (gal/min): 0.16 gal/min

Screen Depth: 15.4 - 25.4 | Total Volume Removed (gallons): ~2.5 gal

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1814	11.76	250	18.9	5.87	5.36	235.9	5.44	233.8	Clear/No odor
1817	11.70	250	18.5	5.57	2.43	246.9	1.93	243.0	Clear/No odor
1820	11.65	300	18.4	5.49	1.60	246.9	1.97	246.0	Clear/No odor
1823	11.65	300	18.3	5.49	1.06	246.7	1.95	246.3	Clear/No odor
1826	11.67	300	18.3	5.51	1.97	247.3	1.95	245.7	Clear/No odor

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes: Finished @ 19:30

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418 / 5419 Date: 5/16/20 Personnel: JL

Project: Solvita Client: Solvita Page: 1 of 1

Well ID: T-02 Starting Water Level 10.58 Time: 14:48

Total Depth: ~~25~~ 26.28 Ending Water Level 10.95 Time: 16:35

Purging Time: On: 15:47 Evacuation Method: portable bladder pump

Off: 16.45 Volume in Well (gallons): 2.56 gal

Well Depth: 26.5 Evacuation Rate (gal/min): 0.05 gal/min

Screen Depth: 16.1 - 26.1 Total Volume Removed (gallons): ~3.0 gal

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
15:47	10.82	100	20.2	6.61	OOR	272.2	4.66	133.4	Light brown
15:50	11.22	400	19.0	6.33	~~325~~ 326	270.5	4.27	125.6	Light brown / No odor
15:53	11.04	200	19.0	6.28	251	263.1	3.80	115.8	SL cloudy
15:56	10.95	200	19.1	6.31	210	268.8	3.77	106.1	Light brown / clear
15:59	10.78	200	19.1	6.35	178	268.9	3.63	95.7	Light brown / No odor
16:02	10.98	200	19.1	6.50	126	269.5	3.35	89.2	" / " Clear
16:05	10.96	200	19.1	6.53	83.1	269.2	2.67	84.5	" / " No odor
16:08	10.96	~~200~~	19.0	6.56	48.8	270.1	2.36	78.6	Cloudy / No odor
16:11	10.97	200	19.0	6.57	38.2	269.6	2.19	75.2	Clear / No odor
16:14	10.95	200	18.9	6.57	28.8	269.1	1.97	72.6	Clear / No odor
16:17	10.96	200	19.0	6.58	24.3	268.7	1.86	70.6	" / "
16:20	10.98	200	19.0	6.57	21.0	267.6	1.64	69.1	" / "
16:23	10.95	200	19.0	6.50	16.3	268.8	1.55	68.6	" / "
16:26	10.95	200	18.9	6.45	13.4	265.3	1.52	69.6	" / "
16:29	10.95	200	18.9	6.45	9.83	263.8	1.50	70.4	" / "
16:32	10.95	200	18.9	6.45	9.76	264.8	1.48	71.4	" / "
16:35	10.95	200	18.9	6.43	9.49	263.5	1.51	72.4	" / "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: ~~5418~~ 5419 | Date: 5-16-20 | Personnel: STR

Project: Spring GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: T-09 | Starting Water Level: 15.23 | Time: 1418

Total Depth: 39.78' | Ending Water Level: 16.39 | Time: 16:15

Purging Time: On: ~~15:21~~ 15:21 | Evacuation Method: Portable Bladder Pump w/ poly tubing

Off: 1615 | Volume in Well (gallons): (39.78 - 15.23) = 4.00 gallons

Well Depth: 40' | Evacuation Rate (gal/min): ~~0.053~~ 0.065

Screen Depth: 30'-40' | Total Volume Removed (gallons): ~3.5

PURGING DATA AND FIELD PARAMETERS

Time	Depth to ~~Water~~ (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1521	15.66	200	19.5	5.63	213	187.6	4.76	95.6	~~Slightly cloudy~~ clear / no odor
1524	16.06	200	18.9	5.55	164	186.0	4.04	~~185.8~~	" / "
1527	16.11	200	18.7	5.49	126	186.8	3.94	~~186.9~~ 95.4	" / "
1530	16.19	200	18.8	5.45	117	189.4	3.78	98.5	" / "
1533	16.25	200	18.6	5.48	103	210.4	3.49	100.9	" / "
1536	16.29	200	18.5	5.53	74.7	236.6	3.04	98.7	" / "
1539	16.32	200	18.6	5.57	65.0	238.7	2.78	95.7	" / "
1542	16.32	200	18.6	5.64	54.0	245.6	2.70	91.9	" / "
1545	16.32	200	18.6	5.66	47.8	249.4	2.49	90.0	" / "
1548	16.36	200	18.5	5.68	39.8	251.1	2.52	88.8	" / "
1551	16.33	200	18.5	5.68	35.2	252.6	2.51	87.4	" / "
1554	16.39	200	18.5	5.72	31.0	254.6	2.50	84.6	clear / none
1557	16.40	200	18.6	5.69	40.0	255.9	2.37	85.0	" / "
1600	16.35	200	18.4	5.71	28.8	256.3	2.37	84.5	" / "
1603	16.38	200	18.4	5.70	22.9	256.8	2.37	84.9	" / "
1606	16.38	200	18.4	5.72	25.2	257.2	2.34	83.6	" / "
1609	16.41	200	18.5	5.75	21.2	257.5	2.23	81.4	" / "
1612	16.41	200	18.4	5.75	20.4	257.5	2.28	81.3	" / "
1615	16.39	200	18.5	5.72	21.0	257.5	2.22	82.6	" / "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418/5419 Date: 5/16/20 Personnel: JL

Project: Annual GWI Event Client: SDUtica Page: 1 of 1

Well ID: MW-13A Starting Water Level 85.94 Time: 9:33

Total Depth: ~~MW-13A~~ 117.94 Ending Water Level 86.28 Time: ~~10:26~~ 10:29

Purging Time: On: 9:36 Evacuation Method: bladder pump w/teflon-lined tubing

Off: 10:29 Volume in Well (gallons): 5.23

Well Depth: 112.7 Evacuation Rate (gal/min): 0.093 gal/min

Screen Depth: 107.7 Total Volume Removed (gallons): ~1.5 gal

PURGING DATA AND FIELD PARAMETERS

8.74

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
9:40	86.21	150	18.6	7.16	4.50	310.1	~~17.0~~	119.0	clear/no odor
9:43	86.25	150	17.3	6.92	3.34	305.3	8.38	137.0	" / "
9:46	86.18	150	17.4	6.79	3.63	306.2	6.79	138.6	" / "
9:49	86.16	150	17.6	6.86	5.38	309.5	6.88	134.4	" / "
9:52	86.15	150	17.6	7.00	5.01	315.8	7.04	127.6	" / "
9:55	86.18	150	17.8	7.06	4.12	321.7	6.84	125.0	" / "
9:58	86.18	100	18.0	7.09	2.96	326.3	6.12	120.9	" / "
10:01			18.2	7.14		329.7	5.65	118.7	" / "
	Had to replace battery								" / "
10:05	86.24	200	18.8	7.26	4.22	3213	6.83	112.8	" / "
10:11	86.26	200	17.5	7.17	2.09	363.8	6.05	120.0	" / "
10:14	86.32	200	17.3	7.09	1.16	388.7	5.32	122.9	" / "
10:17	86.29	200	17.3	7.12	0.92	407.6	5.30	120	
10:20	86.34	200	17.3	7.15	1.08	422.5	5.14	118.6	
10:23	86.28	200	17.3	7.16	0.83	434.4	4.89	116.7	
10:26	86.28	200	17.3	7.18	0.91	448.9	4.79	115.2	
10:29	86.28	200	17.3	7.18	0.86	457.1	4.61	115.2	

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418 / 5419 | Date: 5/16/20 | Personnel: JL

Project: Anniston GW | Client: Solutia | Page: 1 of 1

Well ID: OW-22 | Starting Water Level: 13.96 | Time: 18:36

Total Depth: ~~38.50~~ 38.50 | Ending Water Level: 17.28 | Time: 1904

Purging Time: On: 18:43 | Off: 19:07

Well Depth: 37.7 | Screen Depth: 27.7 - 37.7

Evacuation Method: bladder pump w/ teflon-lined tubing

Volume in Well (gallons): 4.00 gal

Evacuation Rate (gal/min): 0.125 gal/min

Total Volume Removed (gallons): ~3 gal

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
18:43	15.35	350	19.4	4.51	2.35	97.1	3.85	203.6	clear/
18:46	15.72	150	19.9	4.02	1.17	95.2	2.31	216.4	clear/No odor
18:49	16.15	200	19.7	4.03	3.69	96.3	2.33	219.7	clear/No odor
18:52	16.36	200	19.5	4.01	6.21	95.0	2.12	222.9	clear/no odor
18:55	16.62	200	19.5	4.03	8.42	94.4	1.94	223.9	" / "
1858	16.86	200	19.5	4.10	6.07	93.8	1.75	221.3	" / "
1901	17.03	200	19.5	4.14	4.73	93.2	1.70	221.1	" / "
1904	17.28	200	19.5	4.16	3.78	93.1	1.65	220.8	" / "

Stabilization Requirements as per GSP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	+/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTU's

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418 | Date: 5/16/20 | Personnel: WRE

Project: Anniston GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-12A | Starting Water Level: 89.46 | Time: 9:23

Total Depth: 116.74 ft btoc | Ending Water Level: 89.54 | Time: 10:41

Purging Time: On: 9:34 / 10:03 | Evacuation Method: dd. bladder pump w/teflon lined tubing

Off: 10:41 | Volume in Well (gallons): 4.41 gal.

Well Depth: 112.0 | Evacuation Rate (gal/min): 0.013 gpm

Screen Depth: 107 | Total Volume Removed (gallons): ~1 gal.

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
9:38			16.2	6.88		239.3	6.86	123.1	Stopped pump @9:43
10:06	89.54	175	15.8	6.50	2.12	235.5	7.42	134.1	clear, no odor
10:09	89.57	150	16.0	6.47	1.78	233.7	6.91	134.3	clear, no odor
10:12	89.53	150	16.3	6.48	1.95	234.0	6.66	135.4	clear, no odor
10:15	89.55	150	16.5	6.52	2.05	234.0	6.07	136.1	clear, no odor
10:18	89.53	150	16.6	6.59	2.06	235.7	5.62	136.5	clear, no odor
10:21	89.53	150	16.5	6.63	1.72	244.7	5.40	136.7	clear, no odor
10:24	89.55	150	16.6	6.69	1.36	257.0	5.09	136.8	clear, no odor
10:28	89.56	150	16.6	6.79	0.89	276.6	4.76	136.4	clear, no odor
10:32	89.54	125	16.7	6.85	0.80	283.6	4.73	136.0	clear, no odor
10:35	89.55	125	16.8	6.89	1.03	287.0	4.48	135.8	clear, no odor
10:38	89.54	125	16.9	6.94	1.61	290.0	4.50	135.5	clear, no odor
10:41	89.54	125	16.9	6.96	1.16	291.9	4.56	135.3	clear, no odor

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418 Date: 5/16/20 Personnel: WKG

Project: Anniston GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-11A Starting Water Level 86.99 Time: 15:51

Total Depth: 113.82 ft. btoc Ending Water Level 87.83 Time: 16:47

Purging Time On: 15:51, water to surface @ 15:56 Evacuation Method: bladder pump w/teflon lined tubing

Off: 16:47 Volume in Well (gallons): 4.34 gal.

Well Depth: 115ft. btoc Evacuation Rate (gal/min): 0.0714 gpm

Screen Depth: 109-114ft. Total Volume Removed (gallons): ~4 gal.

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
~~15:51~~ 15:50	~~87.82~~ 87.82	~~500~~ 500	17.7	6.99	289	260+	6.61	121.7	clear, no odor
16:01	87.20	175	17.3	6.82	21.2	260.0	5.91	131.2	" "
16:04	87.20	175	17.1	6.85	37.9	254.6	~~6.85~~	137.5	" "
							5.60		
16:07	87.20	175	17.0	6.86	63.8	248.6	6.86	140.5	Cloudy/no odor
16:11	87.85	500	16.6	6.85	647	262.5	4.70	140.4	" "
16:15	87.70	500	16.4	6.96	542	258.3	4.47	141.2	" "
16:19	87.58	300	16.5	7.02	558	255.9	4.34	143.0	" "
16:23	87.52	500	16.5	7.04	493	257.5	4.35	143.7	" "
16:26	87.75	500	16.5	7.06	489	257.1	4.34	142.9	" "
16:29	87.75	500	16.4	7.09	440	258.6	4.36	142.1	" "
16:32	87.80	500	16.4	7.09	535	259.0	4.35	142.8	" "
16:35	87.80	500	16.5	7.07	302	258.8	4.26	145.2	" "
16:40	87.80	500	16.5	7.12	151	258.3	4.25	143.6	" "
16:43	87.89	500	16.4	7.15	141	257.6	4.25	143.6	
16:47	87.83	500	16.5	7.18	140	258.0	4.26	141.0	

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Remarks:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418 / 5419 Date: 5-18-20 Personnel: STR

Project: Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-01B Starting Water Level: 31.11 Time: 9:00

Total Depth: 63.80 Ending Water Level: 36.98 Time: 9:47

Purging Time On: 9:17 Evacuation Method: Dedicated Bladder Pump.

Off: 9:47 Volume in Well (gallons): 5.33

Well Depth: 64' Evacuation Rate (gal/min): ~~0.026~~ 0.067

Screen Depth: 59 : 64' Total Volume Removed (gallons): ~2 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
917	32.60	100-300	17.0	5.84	15.3	25.5	7.13	102.6	clear / none
920	32.07	100	17.4	4.84	77.2	25.4	6.02	134.2	" / "
923	33.50	100	17.7	4.63	149	25.7	6.04	142.3	slightly cloudy / none
926	33.91	100	17.5	4.46	110	24.3	6.57	150.6	" / "
929	34.42	90	17.4	4.37	98.1	23.5	7.25	156.0	" / "
932	34.80	100	17.4	4.39	79.6	23.2	7.07	156.3	" / "
935	35.22	100	17.4	4.49	75.1	23.0	7.03	152.2	" / "
938	35.71	100	17.4	4.54	75.6	23.1	6.84	151.8	" / "
941	36.21	100	17.5	4.59	83.8	23.0	6.50	149.5	" / "
944	36.69	100	17.5	4.59	86.5	22.8	6.70	149.5	" / "
947	36.98	100	17.5	4.61	83.2	22.7	6.48	148.8	" / "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTUs or +/- 10% if turbidity is greater than 10 NTUs

Notes: moved Transducer out of the way to get water level probe in well @ 9:00 Removed transducer connector, inserted WL probe, & re inserted transducer cord & connector to original depth (orange cord fully extended). The orange cord was fully extended when I arrived.

63.80 − 31.11 = 32.69

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5419 | Date: 5-16-20 | Personnel: SAR

Project: Spring GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: T-10 | Starting Water Level: 16.28 | Time: 18:11

Total Depth: 39.19 | Ending Water Level: 21.48 | Time: 18:58

Purging Time On: 1834 | Evacuation Method: Portable Bladder Pump

Off: 1855 | Volume in Well (gallons): 3.74

Well Depth: 38' | Evacuation Rate (gal/min): ~~0.083~~ 0.095

Screen Depth: 28'-38' | Total Volume Removed (gallons): ~2 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1834	15.93	200	17.9	4.74	39.2	216.1	4.28	118.6	Clear / none
1837	16.68	210	17.8	4.50	49.8	215.1	3.80	129.9	" / "
1840	17.52	210	17.7	4.40	42.6	215.1	3.74	128.6	" / "
1843	18.50	200	17.6	4.29	21.3	215.2	3.72	134.6	" / "
1846	19.63	200	17.5	4.19	16.4	214.9	3.64	140.6	" / "
1849	20.31	200	17.6	4.19	14.6	215.0	3.62	140.6	" / "
1852	21.04	180	17.6	4.25	14.6	214.9	3.54	138.0	" / "
1855	21.48	180	17.7	4.28	13.7	215.0	3.60	137.2	" / "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

Pump set at ~ 33'

39.19 - 16.28 = 22.91

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: ~~OF~~ 5/16/20 → Date: 5/18/5/19 Personnel: WRG

Project: Solutia Anniston GW Sampling Client: Solutia Page: 1 of 1

Well ID: GW21A Starting Water Level: 13.76 Time: 18:20

Total Depth: 37.96 Ending Water Level: 25.68 Time: 19:07

Purging Time On: 18:22 Evacuation Method: bladder pump w/teflon-lined tubing

Off: 19:07 Volume in Well (gallons): 3.92

Well Depth: 39.7 Evacuation Rate (gal/min): 0.074 gpm

Screen Depth: 29.7 Total Volume Removed (gallons): ~3.5 gal

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
18:25	17.41	600	18.8	3.92	58.7	110.7	1.45	149.0	clear strong odor
18:29	19.10	<100	18.6	3.82	41.3	111.8	0.82	153.3	clear, strong odor
18:32	19.66	200	19.4	3.81	46.3	114.3	0.85	155.1	" "
18:35	20.20	200	19.1	3.79	45.6	114.4	0.83	156.4	" "
18:38	20.87	200	19.1	3.76	38.3	113.8	0.70	157.8	" "
18:42	21.40	200	19.0	3.74	27.7	113.7	0.65	159.1	" "
18:45	22.12	200	19.1	3.72	22.9	114.5	0.63	160.0	" "
18:49	22.88	200	19.0	3.69	18.2	114.6	0.62	160.7	" "
18:53	23.45	200	19.0	3.68	14.5	114.3	0.62	161.2	" "
18:57	24.09	200	19.0	3.67	12.2	114.3	0.66	160.8	" "
19:01	25.03	200	19.0	3.65	9.94	114.8	0.67	160.6	" "
19:04	25.31	200	19.0	3.65	9.16	115.4	0.67	160.8	" "
19:07	25.68	200	19.0	3.64	7.91	116.0	0.68	161.0	" "

Stabilization Requirements as per ROP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection:

Three successive readings taken every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	+/- 0.3 mg/L (if DO is consistently above 0.5 mg/L)
Turbidity:	+/- 10 NTUs (if turbidity is consistently above 10 NTUs)

Remarks:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: ~~MW-#~~ WE 5418/5419 Date: 5/18/20 Personnel: WRB

Project: Anniston GW sampling Client: Solutia Page: 1 of 1

Well ID: MW-14 Starting Water Level: 11.08 Time: 9:40

Total Depth: 26.69 Ending Water Level: ~~10.06~~ WE 13.65 Time: 10:30

Purging Time On: 9:43 Evacuation Method: ded. bladder pump w/ teflon-lined tubing

Off: 10:30 Volume in Well (gallons): ~~1.6~~ WE 2.45 gal.

Well Depth: 26.2 Evacuation Rate (gal/min): 0.049 gpm

Screen Depth: 21.2-26.2 Total Volume Removed (gallons): ~3gal.

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Purging Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Specific Conductance (mS/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
9:45	12.45	200	17.9	6.53	9.13	236.7	9.02	136.0	clear, no odor
9:48	12.96	200	17.8	5.97	9.76	246.2	2.17	136.9	" "
9:51	13.07	200	17.9	5.91	11.6	246.1	1.85	136.7	" "
9:54	13.12	175	17.9	5.87	13.7	246.4	1.34	136.7	" "
9:58	13.19	175	17.9	5.85	14.1	245.7	0.95	136.5	" "
10:01	1331	175	17.7	5.83	14.8	245.8	0.80	136.5	" "
10:04	13.43	200	17.7	5.82	14.8	245.7	0.67	136.5	" "
10:08	13.64	200	17.7	5.82	16.7	245.5	0.56	136.6	" "
10:12	13.87	200	17.7	5.82	23.3	245.4	0.50	136.4	" "
10:15	13.94	200	17.7	5.82	34.1	245.3	0.48	136.6	" "
10:18	14.00	200	17.7	5.82	47.9	245.2	0.45	136.6	" "
10:21	13.95	175	17.8	5.82	51.6	245.0	0.45	136.3	" "
10:24	13.89	200	17.8	5.83	63.0	245.1	0.45	136.3	" "
10:27	13.73	175	17.9	5.84	60.0	244.9	0.43	135.8	" "
10:30	13.65	175	18.0	5.84	59.2	245.0	0.46	135.5	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% (if greater than 0.5 mg/L)
Turbidity:	< 10 NTUs +/- 10% (if greater than 10 NTUs)

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: ~~5417~~ 5418 | Date: 5-28-20 | Personnel: STR

Project: Spring GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-8 | Starting Water Level: 11.36 | Time: 938

Total Depth: 36.00 | Ending Water Level: 14.63 | Time: 10:08

Purging Time On: 935 | Evacuation Method: Dedicated Bladder Pump w/ Poly tubing

Off: 1008 | Volume in Well (gallons): 4.02

Well Depth: 30.8 | Evacuation Rate (gal/min): ~~0.042~~ 0.061

Screen Depth: 25.6 - 30.8 | Total Volume Removed (gallons): ~2 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
935	11.95	300	17.9	6.53	7.98	341.0	3.60	76.5	clear / none
938	12.36	180	17.1	6.44	6.98	343.9	3.60	77.9	" / "
941	12.89	180	17.0	6.35	2.68	354.0	2.98	79.7	" / "
944	13.26	160	17.0	6.30	2.99	359.9	2.33	79.1	" / "
947	13.50	160	17.0	6.29	3.40	358.6	2.32	75.7	" / "
950	13.78	160	17.0	6.30	4.96	360.2	2.07	72.1	" / "
953	M:00	160	17.0	6.31	6.58	360.0	1.87	68.6	" / "
956	14.15	160	17.0	6.32	6.44	361.4	1.75	65.9	" / "
959	14.34	160	17.0	6.32	6.64	361.6	1.62	64.3	" / "
1002	14.42	160	17.0	6.32	6.12	361.8	1.55	62.8	" / "
1005	14.51	160	17.0	6.33	4.87	361.8	1.46	60.9	" / "
1008	14.63	160	17.0	6.33	5.01	361.4	1.42	59.4	" / "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	+/- 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	+/- 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

~~0.0218~~

36.00 - 11.36 = 24.64

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418/5419 Date: 5/18/20 Personnel: JL

Project: Banister GW Client: Solvtia Page: 1 of 1

Well ID: MW-9A Starting Water Level 18.87 Time: 9:32

Total Depth: 36.18 Ending Water Level ~~18.5~~ 18.58 Time: 9:57

Purging Time: On: 9:42 Evacuation Method: Dedicated bladder pump w/ teflon

Off: 9:57 Volume in Well (gallons): 2.82

Well Depth: 36.0 Evacuation Rate (gal/min): 0.13 gal/min

Screen Depth: 26.0 - 36.0 Total Volume Removed (gallons): 2.5 gal

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
9:42	18.55	250	19.7	5.09	3.88	148.9	8.53	166.7	clear/no odor
9:45	18.56	200	19.2	4.78	1.23	144.4	6.99	193.8	" / "
9:48	18.57	200	19.2	4.72	1.56	143.9	6.78	195.3	" / "
9:51	18.55	200	19.2	4.78	1.17	142.9	6.57	193.1	" / "
9:54	18.55	200	19.2	4.80	0.92	142.4	6.50	192.9	" / "
9:57	18.58	200	19.2	4.82	0.95	142.4	6.44	193.5	" / "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection:
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	+/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418 / 5419 | Date: 5/18/20 | Personnel: JL

Project: Ramstein GW | Client: Solutia | Page: 1 of 1

Well ID: OW-6A | Starting Water Level: 35.20 | Time: 11:40

Total Depth: 52.14 | Ending Water Level: 35.86 | Time: 12:07

Purging Time On: 11:49 | Evacuation Method: Dedicated bladder pump w/ tefl

Off: 12:07 | Volume in Well (gallons): 1.76 gal

Well Depth: 52.14 | Evacuation Rate (gal/min): 0.11 gal / min

Screen Depth: 41.8 - 51.8 | Total Volume Removed (gallons): 2.5 gal

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
11:49	35.80	300	17.6	4.40	4.92	42.1	10.52	211.6	clear/no odor
11:52	35.98	300	17.9	3.84	3.53	40.5	7.66	235.9	clear no odor
11:55	35.95	150	19.0	3.96	3.58	39.7	6.92	227.5	clear / no odor
11:58	35.68	250	18.1	4.44	4.03	40.3	7.33	202.8	clear/no odor
12:01	35.84	250	17.9	4.27	3.89	39.4	7.26	216.1	clear/no odor
12:04	35.86	250	17.8	4.29	2.87	39.3	7.36	215.8	clear/no odor
12:07	35.86	250	18.0	4.36	2.03	39.7	7.37	213.7	clear/no odor

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

OCTOBER 2020 PURGING LOGS

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GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418 | Date: 10-21-20 | Personnel: STP, JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-01B | Starting Water Level: 40.99 | Time: ~~10:19~~ STP 10:05 STP

Total Depth: 63.75 | Ending Water Level: 50.05 | Time: 1145

Purging Time: On: 1052 | Off: 1145 | Well Depth: 64 ft BGS | Screen Depth: 57.5 - 62.5 ft BGS

Evacuation Method: Bladder Pump, dedicated. Teflon lined tubing

Volume in Well (gallons): ~~0.82~~ 3.77

Evacuation Rate (gal/min): 0.04

Total Volume Removed (gallons): ~2 ~2 gal

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. ~~(umhos/cm)~~ mS/cm	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1052	42.46	100	18.6	5.86	23.5	0.021	7.80	243.6	Clear / no odor
1056	42.84	100	18.4	4.68	27.4	0.016	5.41	285.4	" / "
1059	43.31	100	18.3	4.33	28.7	0.016	5.88	367.8	" / "
1102	43.82	100	18.1	4.32	12.2	0.016	6.64	321.8	" / "
1105	44.45	120	18.0	4.20	22.8	0.016	7.35	334.2	" / "
1108	44.81	80	17.9	4.32	31.8	0.015	6.67	336.1	" / "
1111	45.34	100	18.1	4.32	30.2	0.015	6.72	339.4	" / "
1114	45.73	100	18.2	4.42	24.4	0.015	6.79	338.1	" / "
1117	46.14	100	18.2	4.47	20.6	0.015	6.60	338.5	" / "
1120	46.59	100	18.2	4.49	15.4	0.015	6.61	340.6	" / "
1123	47.03	100	18.2	4.50	15.4	0.015	6.60	341.8	" / "
1126	47.61	~~NM100~~	18.1	4.51	12.8	0.015	6.56	342.7	" / "
1129	47.82	100	18.1	4.51	10.5	0.015	6.59	343.8	" / "
1132	48.38	100	18.1	4.48	22.8	0.015	7.00	347.5	" / "
1136 ~~STP 1135~~	48.61	100	18.1	4.52	10.8	0.015	6.72	347.7	" / "
1139	49.25	100	18.1	4.54	7.60	0.015	6.47	348.5	" / "
1142	49.64	100	18.1	4.56	5.62	0.015	6.38	348.3	" / "
1145	50.05	100	18.1	4.56	5.17	0.015	6.28	349.1	" / "

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:
All STP

$V = \pi (0.167/2)^2 \times$ ~~STP~~ 23.01×7.48 gal/ft^3 =

weather = partly cloudy, 65°F

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418 | Date: 10-21-20 | Personnel: SJP, JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-20A | Starting Water Level: 9.62 | Time: ~~1349~~ 1349

Total Depth: 25.57' | Ending Water Level: 13.40 | Time: 1441

Purging Time: On: 1352 | Off: 1441 | Evacuation Method: Dedicated bladder pump w/ teflon lined tubing

Well Depth: 25.3 ft BGS | Volume in Well (gallons): 2.57

Screen Depth: 19-24 ft BGS | Evacuation Rate (gal/min): 0.03

Total Volume Removed (gallons): ~1.5 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. ~~(umhos/cm)~~ mS/cm	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1352	~~11.30~~ 11.02	100	23.3	6.87	5.34	1.34	3.81	133.1	clear / no odor
1356	11.15	80	23.8	6.83	57.4	1.34	1.68	23.6	" / "
1359	11.42	100	23.8	6.83	163	1.34	1.03	-46.1	" / "
1402	11.67	100	23.8	6.83	146	1.34	0.90	-65.0	cloudy / "
1405	11.96	100	23.7	6.83	116	1.33	0.78	-74.0	" / "
1408	12.12	100	23.7	6.82	85.8	1.33	0.69	-76.6	" / "
1411	12.30	100	23.8	6.82	70.6	1.32	0.64	-78.1	clear / "
1414	12.51	100	23.8	6.81	55.8	1.32	0.62	-78.8	" / "
1417	12.62	100	23.8	6.81	42.9	1.32	0.60	-78.8	" / "
1420	12.78	100	23.7	6.82	34.7	1.32	0.65	-78.4	" / "
1423	12.96	100	23.7	6.81	30.0	1.32	0.66	-78.1	" / "
1426	13.10	100	23.8	6.82	23.4	1.32	0.60	-77.9	" / "
1429	13.19	100	23.8	6.82	19.4	1.32	0.57	-77.4	" / odor
1432	13.26	100	23.90	6.82	17.6	1.32	0.55	-77.3	" / odor
1435	13.32	100	23.8	6.83	16.4	1.32	0.53	-77.3	" / "
1438	13.33	100	23.9	6.83	15.3	1.32	0.54	-77.3	" / no odor
1441	13.40	100	23.9	6.84	15.1	1.33	0.53	-77.1	" / "

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

$V = \pi (0.167/2)^2 \times 15.68 \text{ ft} \times 7.48 \text{ gal/ft}^3 =$

.6
.1
.06

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5416 | Date: 10-22 | Personnel: STR, JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-15 | Starting Water Level: 12.39 | Time: 1506

Total Depth: | Ending Water Level: 12.84 | Time: 1549

Purging Time On: 1509 | Evacuation Method: Bladder pump (dedicated)

Off: 1549 | Volume in Well (gallons): 2.51 gal

Well Depth: 27.7 | Evacuation Rate (gal/min): 0.056 gal/min

Screen Depth: 19-24 BGS | Total Volume Removed (gallons): ~2 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. ~~(umhos/cm)~~ mmhos	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1513	12.94	150	23.2	7.36	4.73	0.239	3.37	203.5	clear / none
1516	12.05	110	23.5	7.26	2.08	0.178	3.22	209.0	" / "
1519	12.62	110	23.7	6.53	1.45	0.281	2.20	215.0	" / slight odor
1522	12.64	200	23.7	6.03	0.77	0.397	1.69	231.8	" / none
1525	12.77	200	23.1	5.58	0.51	0.55	0.83	243.0	" / "
1528	12.75	200	22.9	5.40	0.57	0.59	0.64	253.5	" / "
1531	12.79	200	22.9	5.35	0.49	0.60	0.54	259.2	" / "
1534	12.78	200	23.0	5.33	0.70	0.60	0.50	262.1	" / "
1537	12.79	200	23.0	5.32	0.49	0.60	0.65	264.9	" / "
1540	12.79	200	22.9	5.32	0.81	0.59	0.50	267.2	" / "
1543	12.83	200	22.9	5.31	0.78	0.59	0.43	269.4	" / "
1546	12.85	200	22.9	5.32	1.00	0.58	0.40	270.3	" / "
1549	12.84	200	22.9	5.32	0.51	0.58	0.39	271.3	" / "

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

h = 27.7 - 12.39 = 15.31 ft

V = 15.31 ft × 0.163842 =

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418 | Date: 10-22-20 | Personnel: STR JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-13A | Starting Water Level: 95.53 | Time: 656

Total Depth: 115.21 | Ending Water Level: 96.01 | Time: 742

Purging Time On: 710 | Evacuation Method: Dedicated Bladder Pump, Teflon Tubing

Off: 742 | Volume in Well (gallons): 2.812 gal

Well Depth: 112.7 | Evacuation Rate (gal/min): 0.05 gal/min

Screen Depth: 105-110 BGS | Total Volume Removed (gallons): ~1.5

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. ~~umhos/cm~~ mS/cm	DO (mg/L)	ORP (mV)	Description (Color/Odor)
712	95.69	125	18.3	7.25	5.15	0.443	9.30	206.2	clear / none
715	95.84	140	17.9	7.23	4.14	0.441	9.18	200.4	" / "
718	95.80	150	17.9	7.22	3.42	0.433	8.12	198.0	" / "
721	95.88	150	17.7	7.22	1.48	0.400	6.99	195.7	" / slight odor
724	95.91	150	17.6	7.21	1.21	0.369	6.28	192.6	" / none
727	95.93	150	17.5	7.19	0.61	0.353	6.59	190.7	" / "
730	95.87	150	17.5	7.19	0.43	0.345	5.64	190.2	" / slight odor
733	95.87	150	17.5	7.18	0.32	0.337	5.37	190.3	" / "
736	95.99	150	17.5	7.19	1.44	0.331	5.42	190.8	" / none
739	96.00	150	17.4	7.19	0.99	0.326	5.22	192.0	" / slight odor
742	96.01	160	17.4	7.20	0.23	0.324	5.20	193.0	" / none

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

- 120 ft. pressure
- 10 sec discharge - CPM 3
- changed to 130 ft. pressure
- 11.5 sec discharge during sampling because it was slowing down

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418 | Date: 10-21-20 | Personnel: SM, JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-16 | Starting Water Level: 27.88 | Time: 1630

Total Depth: 70.59 | Ending Water Level: 36.47 | Time: 1711

Purging Time On: 1637 | Evacuation Method: Dedicated bladder pump

Off: 1711 | Volume in Well (gallons): 7.08

Well Depth: 71.1 ft TOC | Evacuation Rate (gal/min): 0.06

Screen Depth: 58-68 ft BGS | Total Volume Removed (gallons): ~2 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. ~~(umhos/cm)~~ mS/cm	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1637	28.77	150	24.9	7.29	10.1	0.059	7.73	185.7	clear/none
1640	29.10	160	23.6	5.27	10.0	0.051	5.23	239.9	" / "
1643	29.87	150	21.8	4.43	5.97	0.053	1.54	269.6	yellow/ "
1646	30.65	150	21.6	4.36	4.47	0.054	1.37	268.5	" / "
1649	31.31	150	21.4	4.38	2.95	0.053	1.19	268.2	" / "
1652	32.02	150	21.3	4.48	5.01	0.051	1.00	264.1	" / "
1655	32.72	160	21.3	4.51	5.54	0.050	0.89	262.5	" / "
1658	33.50	160	21.2	4.53	6.60	0.048	0.81	261.8	" / "
1703	34.68	NM	21.1	4.54	4.95	0.047	0.80	262.1	" / "
1706	35.84	160	21.0	4.57	4.74	0.046	0.83	261.9	" / "
1711	36.47	160	21.0	4.57	4.29	0.046	0.85	261.8	" / slight odor

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

$V = \pi (0.167/2)^2 \times 43.22 \times 7.48$ gal/ft^3 =

$0.0219 \times 7.48 = 0.163842$

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418 | Date: 10-22-20 | Personnel: STR, JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-12A | Starting Water Level: 98.15 | Time: 925

Total Depth: 115.29 | Ending Water Level: 98.33 | Time: 1006

Purging Time: On: 934 | Off: 1006

Well Depth: 112 ft BLS

Screen Depth: 105 - 110 ~~ft~~ BLS

Evacuation Method: Dedicated Bladder Pump w/ teflon Tubing

Volume in Well (gallons): 2.27 gal

Evacuation Rate (gal/min): 0.063 gal/min

Total Volume Removed (gallons): ~2 gal

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F (°C))	pH	Turbidity (NTU)	Spec. Cond. (~~µmhos~~ mS/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
934	98.22	120	15.1	7.47	5.54	0.294	8.76	215.5	clear, no odor
937	98.22	100	18.0	7.33	3.46	0.293	8.56	220.6	" , "
940	98.28	150	17.6	7.20	3.65	0.294	9.21	225.2	" , "
943	98.39	210	17.1	7.08	2.46	0.293	8.91	228.9	" , "
946	98.34	210	17.0	7.12	2.34	0.290	8.03	230.7	" , "
949	98.33	210	17.0	7.26	3.19	0.278	6.82	229.9	" , "
952	98.34	200	17.0	7.34	3.67	0.269	6.37	229.6	" , "
956	98.35	200	17.1	7.39	5.25	0.260	7.04	230.1	" , "
1000	98.39	200	17.0	7.45	3.22	0.258	5.89	229.6	" , "
1003	98.33	190	17.0	7.47	2.64	0.258	5.78	229.3	" , "
1006	98.33	190	17.0	7.49	2.72	0.258	5.70	229.5	" , "

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

Started @ 6.5 seconds discharge on CPM 3 w/ 12 ~~5~~ of pressure. Increased to 16 ~~0~~ ~~ft~~ pressure & 7.5 seconds of discharge at 943.

$V = 0.163842 \times (\pi \times 3^2 \times (112 - 98.15(4)) =$

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5918 | Date: 10-22-20 | Personnel: STP, JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 2

Well ID: MW-11A | Starting Water Level: 95.99 | Time: 1121

Total Depth: 112.34 | Ending Water Level: 96.10 | Time: 1334

Purging Time: On: 1123 - turned on pump. Bladder elevated at 1145. | Evacuation Method: Dedicated Bladder Pump w/teflon-lined tubing

Off: 1334 | Volume in Well (gallons): 3.11

Well Depth: 115 ft BGS | Evacuation Rate (gal/min): 0.037

Screen Depth: 109 - 114 ft BGS | Total Volume Removed (gallons): ~4 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F/°C)	pH	Turbidity (NTU)	Spec. Cond. (~~umhos~~ mmhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1146	96.32	75	17.8	7.96	2.72	0.249	7.76	229.7	murky, no odor
1149	96.20	125	17.7	7.95	133	0.246	6.96	231.3	" "
1152	96.20	125	17.7	7.97	99.1	0.241	6.36	231.9	" "
1155	96.20	140	17.7	7.99	75.3	0.239	5.98	229.3	" "
1158	96.21	140	17.7	7.50	109	0.240	5.54	223.1	" "
1201	96.21	125	17.6	7.50	145	0.242	5.23	215.7	" "
1204	96.21	125	17.6	7.51	213	0.243	5.12	213.3	" "
1207	96.19	125	17.5	7.54	243	0.244	5.07	214.2	" "
1210	96.20	150	17.5	7.56	291	0.244	5.00	215.7	" "
1213	96.20	150	17.5	7.59	301	0.245	5.15	216.7	" "
1216	96.21	150	17.5	7.64	224	0.246	5.05	217.6	" "
1219	96.20	150	17.4	7.66	193	0.247	5.15	218.0	" "
1224	96.23	150	17.4	7.68	136	0.248	NM	219.3	" " YSI turned off?
1227	96.23	150	17.5	7.69	103	0.249	5.37	219.3	" "
1230	96.23	150	17.5	7.71	83	0.250	5.20	219.6	" slight odor
1233	96.23	150	17.6	7.72	61.6	0.250	5.11	219.8	" "
1236	96.20	150	17.5	7.73	48.1	0.250	5.10	219.7	" no odor
1239	96.19	150	17.6	7.74	40.6	0.250	5.17	219.7	" "

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

~~Started @~~ Started @ GPM 3, 7 sec discharge & 130' pressure

V = 0.163842 x 19.01 =

Blockage in well elbow caused us to delay 20 mins until we figured out the issue & resolved it.

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 5418 | Date: 10-22-20 | Personnel: STR, JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 2 of 2

Well ID: MW-11A | Starting Water Level: ~~95.94~~ STR 95.99 | Time: 1121

Total Depth: | Ending Water Level: 96.10 | Time: 1334

Purging Time On: 1123 | Evacuation Method: Dedicated Bladder Pump & Teflon tubing

Off: 1334 | Volume in Well (gallons):

Well Depth: 115 | Evacuation Rate (gal/min): See page 1

Screen Depth: 109-114 | Total Volume Removed (gallons):

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. ~~mmhos~~ mS/cm	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1242	96.19	125	17.7	7.75	34.0	0.250	5.08	219.6	slightly cloudy, no odor
1245	96.17	110	17.8	7.76	33.2	0.250	5.01	219.8	" , "
1248	96.15	100	17.8	7.76	27.6	0.251	5.03	219.9	" , "
1252	96.14	100	17.8	7.76	22.7	0.251	5.04	220.1	" , "
1257	96.12	110	18.2	7.77	24.7	0.251	5.03	219.9	clear , "
1300	96.10	100	17.8	7.77	17.3	0.251	5.06	221.0	" , "
1303	96.10	100	17.7	7.76	16.7	0.252	5.18	221.5	" , "
1306	96.10	100	17.8	7.77	14.2	0.252	5.00	221.7	" , "
1310	96.10	NM	17.9	7.77	11.5	0.252	5.00	221.9	NM
1313	96.10	100	17.9	7.78	11.8	0.252	5.11	221.7	clear, no odor
1316	96.10	NM	17.7	7.77	12.9	0.252	5.06	222.7	NM
1319	96.10	100	17.6	7.76	8.05	0.253	5.16	223.1	clear, no odor
1322	96.11	100	17.6	7.76	7.79	0.252	5.10	223.5	" , "
1325	96.11	100	17.6	7.76	6.52	0.252	NM	224.4	" , "
1328	96.12	100	17.6	7.77	6.45	0.252	5.52	224.4	" , "
1331	96.13	125	17.6	7.77	6.03	0.253	5.37	224.4	" , "
1334	96.10	125	17.6	7.77	4.83	0.252	5.34	224.5	" , "

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

- Battery died between 1252 & 1257
- Battery died between 1310 & 1319

GSI Job No. 5739

2020 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia, Inc., Anniston, Alabama
RCRA Post-Closure Permit ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX C: SAMPLING LOGS

MAY 2020 SAMPLING LOGS

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GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418 Date: 5/13/20 Personnel: WRG

Project: Solutia GW sampling Client: Solutia Page: 1 of 1

Well ID: MW-16 Begin Time: 13:28 End Time: 15:15

Weather: sunny, dry Site Conditions: clear, gravel

COC ID #1: MW-16 = Original Sample COC ID #2: ——— = Duplicate

COC ID #3: ——— = Field Blank COC ID #4: ——— = MS/MSD

COC ID #5: MW-16F = Original Sample (Filtered) COC ID #6: ——— = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 21.9

pH (Standard Units): 4.11

Turbidity (NTU): 11.7

Specific Conductivity (µmhos/cm): 0.066

Sampling Method/ Material: low flow, bladder pump.

Color: ~~WG~~ SL. yellow

Appearance: " "

DO (mg/L): 1.32

ORP (mV): 149.1

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
~~WG~~ 2	1 L glass vial with no preservative for SVOC analysis (8270)	
~~WG~~ 2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
~~WG~~ 2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418 Date: 5/13/20 Personnel: WLG

Project: Anniston GW sampling Client: Solutia Page: 1 of 1

Well ID: MW-15 Begin Time: 10:34 WLG End Time: 11:21

Weather: sunny, dry Site Conditions: ~~sunny, dry~~ clear, gravel

COC ID #1: MW-15 = Original Sample COC ID #2: = Duplicate

COC ID #3: = Field Blank COC ID #4: = MS/MSD

COC ID #5: MW-15F = Original Sample (Filtered) COC ID #6: = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 18.9°C

pH (Standard Units): 5.53

Turbidity (NTU): 7.56

Specific Conductivity (µmhos/cm): 0.517

Sampling Method/ Material: low flow, deidicated bladder pump

Color: clear

Appearance: ~~clear~~ WG, no odor

DO (mg/L): 1.10

ORP (mV): 120.8

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Good, wasp nest in vault lid

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418 Date: 5/13/20 Personnel: WRG

Project: Anniston GW Sampling Client: Solutia Page: 1 of 1

Well ID: OW-16A Begin Time: 16:29 End Time: 17:53

Weather: sunny, windy Site Conditions: grassy, clear

COC ID #1: OW-16A = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: OW-16AF = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 18.2

pH (Standard Units): 4.39

Turbidity (NTU): 3.25

Specific Conductivity (µmhos/cm): 0.201

Color: clear

Appearance: clear

DO (mg/L): 3.96

ORP (mV): 156.6

Sampling Method/ Material: dedicated bladder pump w/teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: (YES) / NO

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese (YES) / NO

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5118 / 5419 | Date: 5/13/20 | Personnel: STR, JL
Project: Solutia | Client: Solutia | Page: 1 of 1

Well ID: MW-20A | Begin Time: 9:42 | End Time: 1446
Weather: Sunny, Wind | Site Conditions: Clear area, Gravel
COC ID #1: MW-20A = Original Sample | COC ID #2: Fieldduplicate## = Duplicate
COC ID #3: = Field Blank | COC ID #4: MW-20A MS / MW-20A MSD = MS/MSD
COC ID #5: MW-20A Filtered = Original Sample (Filtered) | COC ID #6: = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / (C)) 18.9 | Color: Clear
pH: (Standard Units) 6.81 | Appearance: SL odor / clear
Turbidity: (NTU) 19.9 | DO: (mg/L) 0.55
Specific Conductivity: (µmhos/cm) 1510 | ORP: (mV) -55.1
Sampling Method/ Material: Dedicated bladder pump Teflon-lined polytubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
12	40 mL glass vial with HCl for VOA analysis (8260)	
8	1 L glass vial with no preservative for SVOC analysis (8270)	
8	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
8	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
4	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
0	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)
Chlorobenzene: (YES) / NO
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)
1,2-Dichlorobenzene (YES) / NO
1,4-Dichlorobenzene (YES) / NO
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol (YES) / NO
Pentachlorophenol (YES) / NO
2,4,6-Trichlorophenol (YES) / NO
o,o,o-Triethylphosphorothioate (YES) / NO

PCBs (8082)
Aroclors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141)
Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO
Parathion (YES) / NO

METALS (6010)
Beryllium YES / (NO)
Cobalt (YES) / NO
Manganese YES / (NO)

MERCURY (7470)
Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418/5419 Date: 5/13/20 Personnel: JL

Project: Anniston GW Client: Solutia Page: 1 of 1

Well ID: OW-15 Begin Time: 16:05 End Time: 16:21

Weather: SUNNY Site Conditions: grassy, clear

COC ID #1: OW-15 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: OW-15F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 17.4 Color: Clear

pH: (Standard Units) 5.03 Appearance: clear/no odor

Turbidity: (NTU) 0.44 DO: (mg/L) 5.65

Specific Conductivity: (µmhos/cm) 139.2 ORP: (mV) 117.1

Sampling Method/ Material: dedicated pump w/teflon-coated tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well:

Good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) NO

1,2,4-Trichlorobenzene: YES (NO)

Trichloroethene: YES (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES (NO)

2,4,6-Trichlorophenol YES (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Aroclors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / NO

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5419 Date: 8/14/20 Personnel: WRG

Project: Anniston GW sampling Client: Solutia Page: 1 of 1

Well ID: OWR-35 Begin Time: 11:56 End Time: 12:19

Weather: sunny, windy Site Conditions: gravel, clear

COC ID #1: OWR-35 = Original Sample COC ID #2: ——— = Duplicate

COC ID #3: ——— = Field Blank COC ID #4: ——— = MS/MSD

COC ID #5: ——— = Original Sample (Filtered) COC ID #6: ——— = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 21.0 Color: clear

pH (Standard Units): 4.72 Appearance: clear

Turbidity (NTU): 17.3 DO (mg/L): 0.42

Specific Conductivity (µmhos/cm): 134.7 ORP (mV): 121.1

Sampling Method/ Material: bladder pump w/ polytubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
—	40 mL glass vial with HCl for VOA analysis (8260)	
—	1 L glass vial with no preservative for SVOC analysis (8270)	
—	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
—	1 L glass vial with no preservative for PCB analysis (filtered)	
—	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
—	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / NO

1,2,4-Trichlorobenzene: YES / NO

Trichloroethene: YES / NO

SVOCs (8270)

1,2-Dichlorobenzene: YES / NO

1,4-Dichlorobenzene: YES / NO

Indeno(1,2,3-cd)pyrene: YES / NO

4-Nitrophenol: YES / NO

Pentachlorophenol: YES / NO

2,4,6-Trichlorophenol: YES / NO

o,o,o-Triethylphosophorothioate: YES / NO

PCBs (8082)

Aroclors: YES / NO

Homologs: YES / NO

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp: YES / NO

Parathion: YES / NO

METALS (6010)

Beryllium: YES / NO

Cobalt: YES / NO

Manganese: YES / NO

MERCURY (7470)

Mercury: YES / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5419 Date: 5/14/20 Personnel: WRG

Project: Anniston GW sampling Client: Solutia Page: 1 of 1

Well ID: T-18 Begin Time: 14:04 End Time: 15:20

Weather: sunny, windy Site Conditions: concrete, clear (slanted area)

COC ID #1: T-18 = Original Sample COC ID #2: ——— = Duplicate

COC ID #3: ——— = Field Blank COC ID #4: ——— = MS/MSD

COC ID #5: T-18F = Original Sample (Filtered) COC ID #6: ——— = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 21.9

pH (Standard Units): 5.2

Turbidity (NTU): 23.8

Specific Conductivity (µmhos/cm): 282.7

Sampling Method/ Material: bladder pump w/polytubing

Color: clear

Appearance: clear

DO (mg/L): 0.22

ORP (mV): 92.6

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
———	40 mL glass vial with HCl for VOA analysis (8260)	
———	1 L glass vial with no preservative for SVOC analysis (8270)	
———	1 L glass vial with no preservative for Organophos. Pest analysis (8141)	
4	1 L glass vial with no preservative for PCB analysis	
4	1 L glass vial with no preservative for PCB analysis (filtered)	
———	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
———	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol YES / (NO)
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethylphosphorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO
Homologs (YES) / NO

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5419 Date: 5/14/20 Personnel: WRG

Project: Anniston GW sampling Client: Solutia Page: 1 of 1

Well ID: T-06 Begin Time: 17:38 End Time: 18:30

Weather: sunny, windy Site Conditions: grassy, clear

COC ID #1: T-06 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: T-06F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 20.7 Color: clear

pH (Standard Units): 6.85 Appearance: clear

Turbidity (NTU): 19.8 DO (mg/L): 3.02

Specific Conductivity (µmhos/cm): 692 ORP (mV): 122.5

Sampling Method/ Material: bladder pump w/ polytubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
—	40 mL glass vial with HCl for VOA analysis (8260)	
—	1 L glass vial with no preservative for SVOC analysis (8270)	
—	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
—	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
—	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good, water around casing within vault/annulus. Sediment @ bottom of well.

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol YES / (NO)

Pentachlorophenol YES / NO

2,4,6-Trichlorophenol YES / NO

o,o,o-Triethylphosphorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)

Cobalt YES / (NO)

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5419 Date: 5/15/20 Personnel: WRG
Project: Anniston GW sampling Client: Solutia Page: 1 of 1

Well ID: OWR-15D Begin Time: 9:22 End Time: 9:53
Weather: sunny, sl. windy Site Conditions: clear, grassy
COC ID #1: OWR-15D = Original Sample COC ID #2: ——— = Duplicate
COC ID #3: ——— = Field Blank COC ID #4: ——— = MS/MSD
COC ID #5: OWR-15DF = Original Sample (Filtered) COC ID #6: ——— = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 17.8
pH (Standard Units): 5.20
Turbidity (NTU): 6.45
Specific Conductivity (µmhos/cm): 180.7
Sampling Method/ Material: bladder pump w/polytubing

Color: clear
Appearance: clear
DO (mg/L): 5.30
ORP (mV): 236.3

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
———	40 mL glass vial with HCl for VOA analysis (8260)	
———	1 L glass vial with no preservative for SVOC analysis (8270)	
———	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
———	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
———	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETERS KEY

VOCs (8260):
Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270):
1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol YES / (NO)
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082):
Arochlors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141):
Tetraethyldithic pyrophosphate / Sulfotepp YES / (NO)
Parathion YES / (NO)

METALS (6010):
Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese YES / (NO)

MERCURY (7470):
Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5419 Date: 5/15/20 Personnel: WRC

Project: Anniston GW Sampling Client: Solutia Page: 1 of 1

Well ID: OWR-11 Begin Time: 12:04 End Time: 1340

Weather: sunny, clear Site Conditions: grassy

COC ID #1: OWR-11 = Original Sample COC ID #2: ——— = Duplicate

COC ID #3: ——— = Field Blank COC ID #4: ——— = MS/MSD

COC ID #5: OWR-11F = Original Sample (Filtered) COC ID #6: ——— = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 18.8 Color: clear

pH (Standard Units): 3.92 Appearance: clear

Turbidity (NTU): 23.5 DO (mg/L): 0.14

Specific Conductivity (µmhos/cm): 417.5 ORP (mV): 265.0

Sampling Method/ Material: bladder pump w/polytubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
———	40 mL glass vial with HCl for VOA analysis (8260)	
———	1 L glass vial with no preservative for SVOC analysis (8270)	
———	1 L glass vial with no preservative for Organophos. Pest analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good, ants on corner of slab. slab is loose and moves when walked on.

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / NO

Indeno(1,2,3-cd)pyrene YES / NO

4-Nitrophenol YES / NO

Pentachlorophenol YES / NO

2,4,6-Trichlorophenol YES / NO

o,o,o-Triethylphosophorothioate YES / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese (YES) / NO

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5419 Date: 5-15-20 Personnel: STR, JL

Project: Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: OWR-14D Begin Time: 925 End Time: 1221

Weather: Sunny Site Conditions: Trimmed grass

COC ID #1: OWR-14D = Original Sample COC ID #2: Field Duplicate 2 = Duplicate

COC ID #3: = Field Blank COC ID #4: = MS/MSD

COC ID #5: OWR-14D F = Original Sample (Filtered) COC ID #6: Field Duplicate 2F = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 19.6 (°F / °C) Color: clear

pH: 7.00 (Standard Units) Appearance: clear, no odor

Turbidity: 37.3 (NTU) DO: 1.63 (mg/L)

Specific Conductivity: 576 (µmhos/cm) ORP: 78.9 (mV)

Sampling Method/ Material: Portable Bladder Pump, teflon-lined poly tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
	40 mL glass vial with HCl for VOA analysis (8260)	
	1 L glass vial with no preservative for SVOC analysis (8270)	
	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
8	1 L glass vial with no preservative for PCB analysis	
8	1 L glass vial with no preservative for PCB analysis (filtered)	
2	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
2	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol YES / (NO)
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethylphosphorothioate YES / (NO)

PCBs (8082)

Aroclors (YES) / NO
Homologs (YES) / NO

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese (YES) / NO

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5419 Date: ~~5-19-20~~ 5-15-20 Personnel: STP

Project: Spring low Sampling Client: Solutia Page: 1 of 1

Well ID: T-20 Begin Time: 1824 End Time: 1850

Weather: Sunny Site Conditions: Dry, next to road, grassy

COC ID #1: T-20 = Original Sample COC ID #2: = Duplicate

COC ID #3: = Field Blank COC ID #4: = MS/MSD

COC ID #5: T-20 F = Original Sample (Filtered) COC ID #6: = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 18.0 Color: clear

pH: (Standard Units) 3.62 Appearance: clear, slight odor

Turbidity: (NTU) 4.31 DO: (mg/L) 4.37

Specific Conductivity: (µmhos/cm) 303.1 ORP: (mV) 158.5

Sampling Method/ Material: Portable Bladder pump, teflon-lined poly tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
	40 mL glass vial with HCl for VOA analysis (8260)	
	1 L glass vial with no preservative for SVOC analysis (8270)	
	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: (good, (flush mount)

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol YES / (NO)
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethylphosphorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese (YES) / NO

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5419 Date: 5-15-20 Personnel: STR

Project: Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: wel-01 Begin Time: 1513 End Time: 1541

Weather: Sunny Site Conditions: Dry, tall grass to east in ditch

COC ID #1: wel-01 = Original Sample COC ID #2: ~~~ = Duplicate

COC ID #3: ~~~ = Field Blank COC ID #4: ~~~ = MS/MSD

COC ID #5: wel-01F = Original Sample (Filtered) COC ID #6: ~~~ = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / (C)): 16.2 Color: clear

pH (Standard Units): 4.55 Appearance: clear / no odor

Turbidity (NTU): 2.52 DO (mg/L): 3.95

Specific Conductivity (µmhos/cm): 85.0 ORP (mV): 127.1

Sampling Method/ Material: Portable Bladder Pump, teflon lined poly tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
	40 mL glass vial with HCl for VOA analysis (8260)	
	1 L glass vial with no preservative for SVOC analysis (8270)	
	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol YES / (NO)
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethylphosphorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese (YES) / NO

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5118/54/9 Date: 5/15/20 Personnel: JL

Project: Nabors II y Client: Solvtia Page: 1 of 1

Well ID: OW-10 Begin Time: 11:41 End Time: 15:08

Weather: Sunny, Hot & in wind Site Conditions: grassy, clear

COC ID #1: OW-10 = Original Sample COC ID #2: Field duplicate 4 = Duplicate

COC ID #3: ——— = Field Blank COC ID #4: MS / MSD = MS/MSD

COC ID #5: OW-10 F = Original Sample (Filtered) COC ID #6: ——— = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 20.3 Color: Clear

pH (Standard Units): 6.59 Appearance: No odor

Turbidity (NTU): 10.4 DO (mg/L): 4.01

Specific Conductivity (µmhos/cm): 1028 ORP (mV): 97.5

Sampling Method/ Material: bladder pump w/polytubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
12	40 mL glass vial with HCl for VOA analysis (8260)	
0	1 L glass vial with no preservative for SVOC analysis (8270)	
0	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
8	1 L glass vial with no preservative for PCB analysis	
4	1 L glass vial with no preservative for PCB analysis (filtered)	
4	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
2	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good, cap is deteriorated

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: (YES) / NO

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol YES / (NO)

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion YES / (NO)

METALS (6010)

Beryllium (YES) / NO

Cobalt YES / (NO)

Manganese (YES) / NO

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5419 Date: 5-16-20 Personnel: STR

Project: Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: T-10 Begin Time: 18:55 End Time: 1941

Weather: Sunset (Sunny) & 75° Site Conditions: grassy, dry

COC ID #1: T-10 = Original Sample COC ID #2: = Duplicate

COC ID #3: = Field Blank COC ID #4: = MS/MSD

COC ID #5: = Original Sample (Filtered) COC ID #8: = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 17.7 Color: clear

pH: (Standard Units) 4.28 Appearance: clear / no odor

Turbidity: (NTU) 13.7 DO: (mg/L) 3.60

Specific Conductivity: (µmhos/cm) 215.0 ORP: (mV) 137.2

Sampling Method/ Material: Portable Bladder pump with Poly tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	Parathion
~~2~~ 2	1 L glass vial with no preservative for PCB analysis	
	1 L glass vial with no preservative for PCB analysis (filtered)	
	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol (YES) / NO
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5419 Date: 5-16-20 Personnel: STR

Project: Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: T-09 Begin Time: ~~1654~~ ~~1654~~ 1615 End Time: 1745

Weather: Sunny ~ 85° Low wind Site Conditions: Dry, grassy

COC ID #1: T-09 = Original Sample COC ID #2: Field Duplicate 3 = Duplicate

COC ID #3: ~~~~ = Field Blank COC ID #4: ~~~~ = MS/MSD

COC ID #5: T-09 F = Original Sample (Filtered) COC ID #6: ~~~~ = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 18.5 (°C) Color: clear

pH: (Standard Units) ~~5.27~~ 5.72 Appearance: clear / no odor

Turbidity: (NTU) 21.0 DO: (mg/L) 2.22

Specific Conductivity: (µmhos/cm) 257.5 ORP: (mV) 82.6

Sampling Method/ Material: Portable Bladder pump w/ Poly tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
	40 mL glass vial with HCl for VOA analysis (8260)	
4	1 L glass vial with no preservative for SVOC analysis (8270)	
4	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	Parathion
4	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol (YES) / NO
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethylphosphorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418 | Date: 5-16-20 | Personnel: STR

Project: Spring | Client: Solutia | Page: 1 of 1

Well ID: MW-01B | Begin Time: 9:47 | End Time: 1103

Weather: Sunny ~~85~~ ~70°F | Site Conditions: Dry, grassy & slippery

COC ID #1: MW-01B = Original Sample | COC ID #2: ____ = Duplicate

COC ID #3: ____ = Field Blank | COC ID #4: ____ = MS/MSD

COC ID #5: ____ = Original Sample (Filtered) | COC ID #6: ____ = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 17.5 (°F / °C)

pH: 4.61 (Standard Units)

Turbidity: 83.2 (NTU)

Specific Conductivity: 22.7 (µmhos/cm)

Color: clear

Appearance: slightly cloudy, no odor

DO: 6.48 (mg/L)

ORP: 148.8 (mV)

Sampling Method/ Material: Masterflex into bottle. Dedicated Bladder pump with teflon lined poly tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis (8082 PCBs)	
	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene: (YES) / NO

1,4-Dichlorobenzene: (YES) / NO

Indeno(1,2,3-cd)pyrene: YES / (NO)

4-Nitrophenol: (YES) / NO

Pentachlorophenol: YES / (NO)

2,4,6-Trichlorophenol: YES / (NO)

o,o,o-Triethylphosophorothioate: (YES) / NO

PCBs (8082)

Arochlors: (YES) / NO

Homologs: YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp: (YES) / NO

Parathion: (YES) / NO

METALS (6010)

Beryllium: YES / (NO)

Cobalt: (YES) / NO

Manganese: YES / (NO)

MERCURY (7470)

Mercury: (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418/5419 Date: 5/16/20 Personnel: WRG

Project: Anniston GW sampling Client: Solutia Page: 1 of 1

Well ID: MW-[illegible]11A Begin Time: 16:47 End Time: 17:02

Weather: sunny, warm Site Conditions: shaded, brush

COC ID #1: MW-11A = Original Sample COC ID #2: ——— = Duplicate

COC ID #3: ——— = Field Blank COC ID #4: ——— = MS/MSD

COC ID #5: ——— = Original Sample (Filtered) COC ID #6: ——— = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 16.5 Color: cloudy

pH (Standard Units): 7.18 Appearance: cloudy

Turbidity (NTU): 140 DO (mg/L): 4.26

Specific Conductivity (µmhos/cm): 258.0 ORP (mV): 141.0

Sampling Method/ Material: ded. bladder pump w/teflon-lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
———	1 L glass vial with no preservative for PCB analysis (filtered)	
———	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
———	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / ~~Sulfotepp~~ (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese (YES) / NO

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418/5419 Date: 5/16/20 Personnel: WRC

Project: Anniston GW sampling Client: Solutia Page: 1 of 1

Well ID: OW21A Begin Time: 19:07 End Time: 19:55

Weather: sunny, breezy Site Conditions: grassy, clear

COC ID #1: OW21A = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: OW21AF = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 19.0

pH (Standard Units): 3.64

Turbidity (NTU): 7.91

Specific Conductivity (µmhos/cm): 116.0

Sampling Method/ Material: dedicated bladder pump w/ teflon-lined tubing

Color: clear

Appearance: clear

DO (mg/L): 0.68

ORP (mV): 161.0

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosphorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) NO

Parathion (YES) NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese (YES) / NO

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 418 Date: 5/16/20 Personnel: WKG

Project: Solutia Anniston GW sampling Client: Solutia Page: 1 of 1

Well ID: MW-12A Begin Time: 10:41 End Time: 12:58

Weather: sunny, clear Site Conditions: grassy, shaded

COC ID #1: MW-12A = Original Sample COC ID #2: ——— = Duplicate

COC ID #3: ——— = Field Blank COC ID #4: ——— = MS/MSD

COC ID #5: ——— = Original Sample (Filtered) COC ID #6: ——— = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 16.9 Color: clear

pH (Standard Units): 6.96 Appearance: clear

Turbidity (NTU): 1.16 DO (mg/L): 4.56

Specific Conductivity (µmhos/cm): 219.9 ORP (mV): 135.3

Sampling Method/ Material: dedicated bladder pump w/ Teflon-lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
———	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
———	1 L glass vial with no preservative for PCB analysis (filtered)	
———	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
———	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol (YES) / NO
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418/5419 Date: 5/16/20 Personnel: JR

Project: Anniston GW Client: Solutia Page: 1 of 1

Well ID: T-04 Begin Time: 15:47 End Time: 16:35

Weather: Sunny, Hot Site Conditions: grassy, clear

COC ID #1: T-04 = Original Sample COC ID #2: — = Duplicate

COC ID #3: = Field Blank COC ID #4: = MS/MSD

COC ID #5: T-04 = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 18.9 Color: Clear

pH (Standard Units): 6.43 Appearance: No odor

Turbidity (NTU): 9.49 DO (mg/L): 1.51

Specific Conductivity (µmhos/cm): 263.5 ORP (mV): 72.4

Sampling Method/ Material: portable bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
	40 mL glass vial with HCl for VOA analysis (8260)	
	1 L glass vial with no preservative for SVOC analysis (8270)	
	1 L glass vial with no preservative for Organophos. Pest analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well:

Good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol YES / (NO)
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Aroclors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion YES / (NO)

METALS (6010)

Beryllium (YES) / NO
Cobalt YES / (NO)
Manganese (YES) / NO

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418 Date: 5/16/20 Personnel: JL

Project: Anniston GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-13A Begin Time: 10:29 End Time:

Weather: sunny, dry Site Conditions: grassy, shaded

COC ID #1: MW-13A = Original Sample COC ID #2: ——— = Duplicate

COC ID #3: ——— = Field Blank COC ID #4: ——— = MS/MSD

COC ID #5: ——— = Original Sample (Filtered) COC ID #6: ——— = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 17.3 Color: clear

pH (Standard Units): 7.18 Appearance: clear

Turbidity (NTU): 0.36 DO (mg/L): 4.61

Specific Conductivity (µmhos/cm): 447.1 ORP (mV): 115.2

Sampling Method/ Material: dedicated bladder pump w/teflon-lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
—	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
—	1 L glass vial with no preservative for PCB analysis (filtered)	
—	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
—	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

2nd battery died @ 12:10
recharged battery connected @ 12:55

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol (YES) / NO
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethyiphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418/5419 | Date: 5/16/20 | Personnel: JL
Project: Anniston GW | Client: Solutia | Page: 1 of 1

Well ID: OW-22 | Begin Time: 18:43 | End Time: 19:04
Weather: Sunny, Hot w/wind | Site Conditions: grassy
COC ID #1: OW-22 = Original Sample | COC ID #2: — = Duplicate
COC ID #3: — = Field Blank | COC ID #4: — = MS/MSD
COC ID #5: OW-22F = Original Sample (Filtered) | COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 19.5 | Color: Clear
pH (Standard Units): 4.16 | Appearance: clear / no odor
Turbidity (NTU): 3.78 | DO (mg/L): 1.65
Specific Conductivity (µmhos/cm): 93.1 | ORP (mV): 220.8
Sampling Method/ Material: Bladder Pump w/ Teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well:

GOOD

PARAMETER LIST

VOCs (8260)
Chlorobenzene: (YES) / NO
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES (NO)

SVOCs (8270)
1,2-Dichlorobenzene (YES) / NO
1,4-Dichlorobenzene (YES) NO
Indeno(1,2,3-cd)pyrene YES (NO)
4-Nitrophenol (YES) / NO
Pentachlorophenol ~~YES~~ (NO)
2,4,6-Trichlorophenol YES (NO)
o,o,o-Triethylphosophorothioate (YES) NO

PCBs (8082)
Arochlors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141)
Tetraethyldithiopyrophosphate / Sulfotepp (YES) NO
Parathion (YES) / NO

METALS (6010)
Beryllium YES (NO)
Cobalt (YES) NO
Manganese YES / (NO)

MERCURY (7470)
Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418 / 5419 Date: 5/18/20 Personnel: JL

Project: Anniston GW Client: Solutia Page: 1 of 1

Well ID: MW-09A Begin Time: 9:32 End Time: 9:57

Weather: Sunny Hot Site Conditions: Grassy

COC ID #1: MW-09A = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 19.3 (°F / °C) Color: Clear

pH: 4.82 (Standard Units) Appearance: Clear / No Odor

Turbidity: 0.95 (NTU) DO: 6.24 (mg/L)

Specific Conductivity: 142.4 (µmhos/cm) ORP: 193.5 (mV)

Sampling Method/ Material: Dedicated bladder pump w/teflon tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Good

PARAMETER LIST

VOCs (8260)
- Chlorobenzene: (YES) / NO
- 1,2,4-Trichlorobenzene: YES / (NO)
- Trichloroethene: YES / (NO)

SVOCs (8270)
- 1,2-Dichlorobenzene (YES) / NO
- 1,4-Dichlorobenzene (YES) / NO
- Indeno(1,2,3-cd)pyrene YES / (NO)
- 4-Nitrophenol (YES) / NO
- Pentachlorophenol YES / (NO)
- 2,4,6-Trichlorophenol YES / (NO)
- o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)
- Arochlors (YES) / NO
- Homologs YES / (NO)

PESTICIDES (8141)
- Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO
- Parathion (YES) / NO

METALS (6010)
- Beryllium YES / (NO)
- Cobalt (YES) / NO
- Manganese YES / (NO)

MERCURY (7470)
- Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 2118/5419 Date: 5/18/20 Personnel: JL

Project: Panasonic GW Client: Solvita Page: 1 of 1

Well ID: OW-6A Begin Time: 11:46 End Time: 12:07

Weather: Sunny / Hot Site Conditions: Grassy

COC ID #1: OW-6A = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 18.0 (°F / °C) Color: Clear

pH: 4.36 (Standard Units) Appearance: No odor

Turbidity: 2.03 (NTU) DO: 7.37 (mg/L)

Specific Conductivity: 39.7 (µmhos/cm) ORP: 213.7 (mV)

Sampling Method/ Material: Dedicated Bladder pump w teflon tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well:

Good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418/5419 Date: 5/18/20 Personnel: WRG

Project: Anniston GW sampling Client: Solutia Page: 1 of 1

Well ID: MW-14 Begin Time: 10:30 End Time: 11:52

Weather: sun/clouds, breezy Site Conditions: grassy, shaded

COC ID #1: MW-14 = Original Sample COC ID #2: ——— = Duplicate

COC ID #3: ——— = Field Blank COC ID #4: ——— = MS/MSD

COC ID #5: ——— = Original Sample (Filtered) COC ID #6: ——— = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 18.0 Color: clear

pH (Standard Units): 5.84 Appearance: clear

Turbidity (NTU): 59.2 DO (mg/L): 0.46

Specific Conductivity (µmhos/cm): 245.0 ORP (mV): 135.5

Sampling Method/ Material: bladder pump w/teflon-lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
—	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
—	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good - missing plastic elbow for teflon-lined tubing connection to masterflex tubing.

- elbow was taken from DWDA and decontaminated before use ~~that was decontaminated and~~ WG

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Hornologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / ~~Sulfotepp~~ (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese (YES) / NO

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418 Date: 5-18-20 Personnel: STN

Project: Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-08 Begin Time: 1008 End Time: 1100

Weather: Partly Cloudy ~72° Site Conditions: Damp

COC ID #1: MW-08 = Original Sample COC ID #2: _____ = Duplicate

COC ID #3: _____ = Field Blank COC ID #4: _____ = MS/MSD

COC ID #5: _____ = Original Sample (Filtered) COC ID #6: _____ = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / (°C)) 17.0 Color: Clear

pH: (Standard Units) 6.3 Appearance: Clear / no odor

Turbidity: (NTU) 5.01 DO: (mg/L) 1.42

Specific Conductivity: (µmhos/cm) 361.4 ORP: (mV) 59.4

Sampling Method/ Material: Dedicated Bladder Pump w/ poly tubing (Teflon lined)

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis (8082)	
	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Good, wasp present

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothicate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5419 Date: 5/14/20 Personnel: STR, JL

Project: Anniston GW Sampling Client: Solutia Page: 1 of 1

Well ID: OWR-13 Begin Time: 17:26 End Time: 18:15

Weather: sunny Site Conditions: grassy, clear

COC ID #1: OWR-13 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: OWR-13F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 19.1 Color: clear

pH (Standard Units): 5.32 Appearance: clear

Turbidity (NTU): 32.5 DO (mg/L): 4.74

Specific Conductivity (µmhos/cm): 210.3 ORP (mV): 117.1

Sampling Method/ Material: low flow w/portable bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
0	40 mL glass vial with HCl for VOA analysis (8260)	
0	1 L glass vial with no preservative for SVOC analysis (8270)	
0	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
4	1 L glass vial with no preservative for PCB analysis	
4	1 L glass vial with no preservative for PCB analysis (filtered)	
0	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
0	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene YES / (NO)
1,2,4-Trichlorobenzene YES / (NO)
Trichloroethene YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol YES / (NO)
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
0,0,0-Triethylphosphorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) NO
Homologs (YES) NO

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5419 Date: 5/14/20 Personnel: JL, STR
Project: Anniston GW Sampling Client: Solutia Page: 1 of 1
Well ID: Well-04 Begin Time: 11:17 End Time: 12:05
Weather: sunny, windy Site Conditions: clear, gravel
COC ID #1: Well-04 = Original Sample COC ID #2: — = Duplicate
COC ID #3: — = Field Blank COC ID #4: — = MS/MSD
COC ID #5: Well-04F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 18.5 Color: clear
pH (Standard Units): 4.76 Appearance: clear
Turbidity (NTU): 6.26 DO (mg/L): 2.91
Specific Conductivity (µmhos/cm): 72.3 ORP (mV): 133.3
Sampling Method/ Material: low flow w/portable bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
0	40 mL glass vial with HCl for VOA analysis (8260)	
0	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)
Chlorobenzene YES / (NO)
1,2,4-Trichlorobenzene YES / (NO)
Trichloroethene YES / (NO)

SVOCs (8270)
1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol YES / (NO)
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
O,O,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)
Arochlors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141)
Tetraethyldithiopyrophosphate (Sulfotep) YES / (NO)
Parathion YES / (NO)

METALS (6010)
Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese (YES) / NO

MERCURY (7470)
Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418 Date: 5/15/20 Personnel: JL

Project: Anniston GW Sampling Client: Solutia Page: 1 of 1

Well ID: OW-8A Begin Time: 18:26 End Time: 19:00

Weather: sunny Site Conditions: dry, grassy

COC ID #1: OW-08A = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: OW-08A F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 18.3 Color: clear

pH (Standard Units): 5.51 Appearance: clear

Turbidity (NTU): 1.97 DO (mg/L): 1.95

Specific Conductivity (µmhos/cm): 247.3 ORP (mV): 25.9

Sampling Method/ Material: low flow, bladder pump w/teflon-lined tube

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene: (YES) / NO

1,4-Dichlorobenzene: (YES) / NO

Indeno(1,2,3-cd)pyrene: (YES) / NO

4-Nitrophenol: (YES) / NO

Pentachlorophenol: YES / (NO)

2,4,6-Trichlorophenol: YES / (NO)

O,O,O-Triethylphosophorothioate: (YES) / NO

PCBs (8082)

Arochlors: (YES) / NO

Homologs: YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp: (YES) / NO

Parathion: (YES) / NO

METALS (6010)

Beryllium: YES / (NO)

Cobalt: (YES) / NO

Manganese: (YES) / NO

MERCURY (7470)

Mercury: (YES) / NO

OCTOBER 2020 SAMPLING LOGS

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GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418 Date: 10-21-20 Personnel: SM, JA

Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-01B Begin Time: 11:45 End Time: ~1305

Weather: Partly cloudy, cool 65°F Site Conditions: sloped, grassy, damp to dry

COC ID #1: MW-01B = Original Sample COC ID #2: = Duplicate

COC ID #3: = Field Blank COC ID #4: = MS/MSD

COC ID #5: = Original Sample (Filtered) COC ID #6: = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 18.1 °C Color: clear

pH: (Standard Units) 4.56 Appearance: no odor

Turbidity: (NTU) 5.17 DO: (mg/L) 6.28

Conductivity: mmhos ~~(µmhos/cm)~~ 0.015 ORP: (mV) 349.1

Sampling Method/ Material: Dedicated bladder pump; teflon-lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Everything looked & functioned fine.

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol (YES) / NO

2,4,6-Trichlorophenol (YES) / NO

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418 Date: 10-21-20 Personnel: STR, JA

Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-20A Begin Time: 1441 End Time: 1606

Weather: Sunny ~80° F Site Conditions: Gravel, sloped to a concrete ditch

COC ID #1: MW-20A = Original Sample COC ID #2: Duplicate = Duplicate

COC ID #3: = Field Blank COC ID #4: = MS/MSD

COC ID #5: = Original Sample (Filtered) COC ID #6: = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / C): 23.9 Color: Clear

pH (Standard Units): 6.84 Appearance: no odor

Turbidity (NTU): 15.1 DO (mg/L): 0.53

Conductivity (~~µmhos~~ mmhos/cm): 1.33 ORP (mV): -77.1

Sampling Method/ Material: Dedicated Bladder Pump w/ compressor, Teflon-lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
6	40 mL glass vial with HCl for VOA analysis (8260)	
4	1 L glass vial with no preservative for SVOC analysis (8270)	
4	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
4	1 L glass vial with no preservative for PCB analysis	
	1 L glass vial with no preservative for PCB analysis (filtered)	
2	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418 Date: 10-22-20 Personnel: STR, JA

Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-15 Begin Time: 1549 End Time: ~1745

Weather: Sunny, mild Site Conditions: Gravel

COC ID #1: MW-15 = Original Sample COC ID #2: = Duplicate

COC ID #3: = Field Blank COC ID #4: MS / MSD = MS/MSD

COC ID #5: = Original Sample (Filtered) COC ID #6: = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 22.9°C Color: Clear

pH: (Standard Units) 5.32 Appearance: ~~None~~ Slt No odor

Turbidity: (NTU) 0.51 DO: (mg/L) 0.39

Conductivity: (µmhos/cm) 0.58 ORP: (mV) 271.3

Sampling Method/ Material: Dedicated Bladder Pump, teflon-lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
9	40 mL glass vial with HCl for VOA analysis (8260)	
6	1 L glass vial with no preservative for SVOC analysis (8270)	
6	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
6	1 L glass vial with no preservative for PCB analysis	
	1 L glass vial with no preservative for PCB analysis (filtered)	
3	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Good. Pump Stuck. Cannot Measure TD

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES (NO)

Cobalt (YES) / NO

Manganese YES (NO)

MERCURY (7470)

Mercury YES (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5416 Date: 10-22-20 Personnel: STR, JA

Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-13A Begin Time: 742 End Time: 855

Weather: cool, cloudy Site Conditions: Grass, trees

COC ID #1: = Original Sample COC ID #2: = Duplicate

COC ID #3: = Field Blank COC ID #4: = MS/MSD

COC ID #5: = Original Sample (Filtered) COC ID #6: = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 17.4°C

pH (Standard Units): 7.20

Turbidity (NTU): 0.23

Conductivity (~~µmhos~~/cm): 0.324 mmhos

Sampling Method/ Material: dedicated Bladder Pump - teflon lined tubing

Color: clear

Appearance: clear, no odor

DO (mg/L): 5.20

ORP (mV): 193.0

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3 STR	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
	1 L glass vial with no preservative for PCB analysis (filtered)	
1 STR	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Good

PARAMETER LIST

VOCs (8260) STR

Chlorobenzene: YES / NO

1,2,4-Trichlorobenzene: YES / NO

Trichloroethene: YES / NO

SVOCs (8270)

1,2-Dichlorobenzene YES / NO

1,4-Dichlorobenzene YES / NO

Indeno(1,2,3-cd)pyrene YES / NO

4-Nitrophenol YES / NO

Pentachlorophenol YES / NO

2,4,6-Trichlorophenol YES / NO

o,o,o-Triethylphosophorothioate YES / NO

PCBs (8082)

Arochlors YES / NO

Homologs YES / NO

PESTICIDES (8141) STR

Tetraethyldithiopyrophosphate / Sulfotepp YES / NO

Parathion YES / NO

METALS (6010)

Beryllium YES / NO

Cobalt YES / NO

Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418 Date: 10-21-20 Personnel: STR, JA

Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-16 Begin Time: 1711 End Time: ~1745

Weather: Sunny, hot Site Conditions: Gravel

COC ID #1: = Original Sample COC ID #2: = Duplicate

COC ID #3: = Field Blank COC ID #4: = MS/MSD

COC ID #5: = Original Sample (Filtered) COC ID #6: = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 21.0 (°F / °C)

pH: 4.57 (Standard Units)

Turbidity: 4.29 (NTU)

Conductivity: 46 (µmhos/cm) mmhos

Sampling Method/ Material: Dedicated Bladder Pump with compressor

Color: clear yellow

Appearance: clear yellow

DO: 0.85 (mg/L)

ORP: 261.8 (mV)

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Good.

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418 Date: 10-22-20 Personnel: STR, JA

Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-12A Begin Time: 1006 End Time: 1040

Weather: Cool, partly cloudy ~70° Site Conditions: Frosted, Leaf litter

COC ID #1: MW-12A = Original Sample COC ID #2: = Duplicate

COC ID #3: = Field Blank COC ID #4: = MS/MSD

COC ID #5: = Original Sample (Filtered) COC ID #6: = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 17.0 Color: Clear

pH: (Standard Units) 7.49 Appearance: no odor

Turbidity: (NTU) 2.72 DO: (mg/L) 5.70

Conductivity: (µmhos/cm) 0.258 ORP: (mV) 229.5

µmhos

Sampling Method/ Material: Dedicated bladder pump & teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3 STR	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
	1 L glass vial with no preservative for PCB analysis (filtered)	
X STR	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt YES / (NO)

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 5418 Date: 10-22-20 Personnel: STP, JA

Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-11A Begin Time: 1334 End Time: ~1410

Weather: Partly Cloudy, cool Site Conditions: Frosted, leaf litter

COC ID #1: MW-11A = Original Sample COC ID #2: = Duplicate

COC ID #3: = Field Blank COC ID #4: = MS/MSD

COC ID #5: = Original Sample (Filtered) COC ID #6: = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 17.6 °C Color: clear

pH: (Standard Units) 7.77 Appearance: no odor

Turbidity: (NTU) 4.83 DO: (mg/L) 5.34

Conductivity: (mmhos/cm) 0.252 ORP: (mV) 224.5

mmhos

Sampling Method/ Material: Dedicated Bladder pump w/ teflon tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
	1 L glass vial with no preservative for PCB analysis (filtered)	
	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: Some sediment in the elbow at the top of the tubing caused a 20 min delay in starting.

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / NO

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt YES / (NO)

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI Job No. 5739

2020 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia, Inc., Anniston, Alabama
RCRA Post-Closure Permit ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX D: CALIBRATION LOGS

MAY 2020 CALIBRATION LOGS

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GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 / 5419 — Project Name: Annual April Gw Sampling

Date of Calibration: 5-13-20 — Date of Last Calibration: Feb 21, 2020

Date(s) Instrument Used: 5-13-20 — Name of Person Performing Calibration: STR

EQUIPMENT

Equipment Type: Turbidity Meter — Manufacturer: AJAX

Model/Model Number: Portable Turbidimeter - Hanna HI 98703 — Serial Number: C3107

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
Turbidity	0-10, 6.98	NTU	~~Used~~ Gelex	—	AJAX
Turbidity	0-100, 59.3	NTU	Gelex	—	AJAX
Turbidity	0-1000, 541	NTU	Gelex	—	AJAX

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
820	NA	0-10, 6.98	6.73		Pass
822	NA	0-100, 59.3	58.5		Pass
822	NA	0-1000, 541	538		Pass

0-10
0-100
0-1000

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418/5419
Project Name: Anniston April GW Sampling
Date of Calibration: 5-13-20
Date of Last Calibration: 5/1/2020
Date(s) Instrument Used: 5-13-20
Name of Person Performing Calibration: Dan Massingill @ AJAX Pressing SYR

EQUIPMENT

Equipment Type: YSI Professional Plus
Manufacturer: AJAX
Model/Model Number: YSI
Serial Number: C2101

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
DO	9.55	mg/L	—	—	—
~~Conductivity~~ ~~Spec Conductance~~	1413	mS/cm	Aqua Solutions	12/30/20	AJAX
pH 4.01	4.01	SU	Aqua Solutions	9/30/21	AJAX
pH 7	7.00	SU	Aqua Solutions	1/30/22	AJAX
pH 10	10.00	SU	Aqua Solutions	12/30/21	AJAX
~~ORP~~/Redox	229	mV	Aqua Solutions	5/30/20	AJAX

@ 17.6 °C

CALIBRATION

Time	Temperature °C	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
DO 7:29	17.6° C	9.55	~~8.94~~ 9.55	0	Pass
~~Conductivity Spec Cond~~ 7:47	18.0° C	1413	1412		Pass
pH 4 7:52	18.2° C	4.01	3.82		Pass
pH 10 7:58	18.0° C	10.00	10.##		Pass
pH 7 8:04	18.1° C	7.00	7.10		Pass
~~ORP~~ Redox 8:09	18.2° C	229	229	0	Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 541815419 Project Name: Anniston GW sampling

Date of Calibration: 5/13/20 Date of Last Calibration: ~~5/6~~ 2/21/20

Date(s) Instrument Used: 5/13/20 Name of Person Performing Calibration: Whitney Godwin

EQUIPMENT

Equipment Type: Turbidity meter Manufacturer: Hanna

Model/Model Number: HI 98703 Serial Number: E0028877

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
Turb.	0-1000	NTU	Gelex	—	AJAX
Turb.	0-100	NTU	Gelex	—	AJAX
Turb.	0-10	NTU	Gelex	—	AJAX

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
8:04	—	0-1000	538		
8:05	—	0-100	58		
8:05	—	0-10	4.99		

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 | 5419
Project Name: Anniston GW Sampling
Date of Calibration: 5/13/20
Date of Last Calibration: 5/[illegible]/20
Date(s) Instrument Used: 5/13/20
Name of Person Performing Calibration: Whitney Godwin

EQUIPMENT

Equipment Type: YSI
Manufacturer: YSI
Model/Model Number: Professional Plus
Serial Number: C2105

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
DO	[illegible] 9.39	mg/L	———	———	———
pH	4.0 ±0.01	pH	Aqua	9/30/21	AJAX
pH	7.00 ±0.01	pH	Aqua	1/30/22	AJAX
pH	10 ±0.01	pH	Aqua	12/30/21	AJAX
ORP	229	mV	AJAX	5/30/20	AJAX
[illegible]					
Conduct.	1413	umhos	Aqua	12/30/20	AJAX

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	Difference	Pass/Fail (See "Notes" to determine)
7:21	18.4°C	9.39	9.20 [illegible]	0.19	Pass
7:36	19.0°C	4.0	[illegible] 3.86	0.14	Pass
7:39	18.7°C	7.0	6.81[illegible]	0.[illegible]19	Pass
7:42	19.0°C	10.0	9.86	0.14	Pass
7:52	18.7°C	1413	1.39	0.01	Pass
7:58	19.1°C	228 [illegible]	229	0.4	Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 | 5419 — Project Name: Anniston GW Sampling

Date of Calibration: 5/14/20 — Date of Last Calibration: 5/13/20

Date(s) Instrument Used: ~~5/14~~ WG 5/13/20 - 5/14/20 — Name of Person Performing Calibration: Whitney Godwin

EQUIPMENT

Equipment Type: YSI — Manufacturer: YSI

Model/Model Number: Professional Series — Serial Number: C2105

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
DO	9.15	mg/L	YSI	—	~~YSI~~ AJAX
pH	4.01 ± 0.01	pH	Aqua	9/30/21	AJAX
pH	7. ± 0.01	pH	Aqua	1/30/22	AJAX
pH	10 ± 0.01	pH	Aqua	12/30/21	AJAX
Conductivity	1413	uS/cm	NA	5/30/20	AJAX ~~1413 uS/cm~~
ORP	229 ~~mV~~ WG	mV	~~YSI~~ WG Aqua	12/3/20	AJAX

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
6:46	19.7	9.15	8.72	0.4	Fail
6:49	19.7	9.15	9.14	0.01	Pass
6:52	19.8	4.01 ± 0.01	4.00	0.01	Pass
6:55	19.8	7.00 ± 0.01	7.05	0.05	Pass
6:58	19.9	10.00 ± 0.01	10.01	0.01	Pass
7:03	20.0	1413	1618	14%	Fail
7:05	20.0	1413	1412	<5%	Pass
7:09	19.9	229	227.0	2mV	Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 54|8|5419 Project Name: Anniston GW Sampling

Date of Calibration: 5/14/20 Date of Last Calibration: 5/13/20

Date(s) Instrument Used: 5/13/20 - 5/14/20 Name of Person Performing Calibration: Whitney

EQUIPMENT

Equipment Type: Turbidimeter Manufacturer: HANNA

Model/Model Number: HI98703 Serial Number: E0028877

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
Turbidity	7.14	NTU	Gelex	—	AJAX
Turbidity	54.8	NTU	Gelex	—	AJAX
Turbidity	579	NTU	Gelex	—	AJAX

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
7:17	—	579	540	6.7%	Pass
7:17	—	54.8	57.9	5.6%	Pass
7:18	—	~~5~~ 7.14 WC	5.12	28%	Fail

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 / 5419
Project Name: Annual April GW Sampling
Date of Calibration: 5-14-20
Date of Last Calibration: May 13, 2020
Date(s) Instrument Used: 5-14-20 ; 5-15-20
Name of Person Performing Calibration: STR

EQUIPMENT

Equipment Type: YSI Professional Plus
Manufacturer: AJAX
Model/Model Number: YSI
Serial Number: C2108

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
DO	9.166	mg/L	—	—	—
Specific Conductance	1413	µS/cm or µmhos	Aqua Solutions	12/30/20	AJAX
Redox	229	mV	"	5/30/20	AJAX
pH 4	4.01 ± 0.01	SU	"	09/30/21	
pH 7	7.00 ± 0.01	SU	"	01/30/22	
pH 10	10.00 ± 0.01	SU	"	12/30/21	

CALIBRATION

Time	Temperature °C	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
DO 0653	19.6	9.166	9.14		Pass
Spec Cond 0657	19.7	1413	1414		Pass
Redox 0701	19.7	229	229		Pass
pH 10 0714	19.9	10.00	10.02		Pass
pH 7 0715	19.8	7.00	7.08		Pass
pH 4 0718	19.9	4.01	4.02		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418/5419 Project Name: Annual April GW Sampling

Date of Calibration: 5-14-20 Date of Last Calibration: May - 13, 2020

Date(s) Instrument Used: 5-14-20 - 5-15-20 Name of Person Performing Calibration: STD

EQUIPMENT

Equipment Type: Turbidity Meter Manufacturer: AJAX

Model/Model Number: Portable Turbidimeter Hanna 98703 Serial Number: C3106

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
Turbidity	0 - 10, 6.48	NTU	Gelex	—	AJAX
"	0 - 100, 58.5	"	"	—	"
"	0 - 1000, 562	"	"	—	"

CALIBRATION

Time	Temperature °C	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
725	—	6.48	6.77		Pass
726	—	58.5	60.7		Pass
726	—	562	571		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418/5419
Project Name: Annual April GW Sampling
Date of Calibration: 5-14-20
Date of Last Calibration: 5-13-20
Date(s) Instrument Used: 5-14-20 - 5-15-20
Name of Person Performing Calibration: STR

EQUIPMENT

Equipment Type: YSI Professional Plus
Manufacturer: AJAX
Model/Model Number: YSI
Serial Number: 21D1

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
DO	9.166	mg/L	—	—	—
Specific conductance	1413	MS/cm or µmhos	Aqua Solutions	12/30/20	AJAX
Redox	229	mV	"	5/30/20	"
pH 4	4.01 ± 0.01	SU	"	09/30/21	"
pH 7	7.00 ± 0.01	SU	"	01/30/22	"
pH 10	10.00 ± 0.01	SU	"	12/30/21	"

CALIBRATION

Time	Temperature °C	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
DO 731	19.6	9.166	9.08		Pass
Spec cond 733	19.5	1413	1413		Pass
Redox 736	19.3	229	225.6		Pass
pH 4 740	19.4	4.01	3.98		Pass
pH 7 742	19.4	7.00	6.90		Pass
pH 10 744	19.5	10.00	9.92		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418/5419 | Project Name: Annual April GW Sampling

Date of Calibration: 5-14-20 | Date of Last Calibration: 5-13-20

Date(s) Instrument Used: 5-14-20 - 5-15-20 | Name of Person Performing Calibration: STP

EQUIPMENT

Equipment Type: Turbidity Meter | Manufacturer: AJAX

Model/Model Number: Turbidimeter Hanna 98703 | Serial Number: C3107

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
Turbidity	0-10 6.98	NTU	Gelex	—	AJAX
"	0-100 59.3	"	"	—	"
"	0-1000 541	"	"	—	"

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
752	—	6.98	6.85		Pass
753	—	59.3	589		Pass
753	—	541	540		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: S418/S419 Project Name: Anniston GW Sampling

Date of Calibration: 5/15/20 Date of Last Calibration: 5/14/20

Date(s) Instrument Used: 5/15/20 Name of Person Performing Calibration: JL

EQUIPMENT

Equipment Type: YSI Manufacturer: YSI

Model/Model Number: Pro Serial Number: C2108

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
PH 4	± 4.0	PH	Aqua solutions	9-30-21	Ajax
PH 7	± 7.0	PH	Aqua solution	9-30-21	"
PH 10	± 10.0	PH	"	12-30-21	"
conductivety	1413	US	"	12-30-21	"
ORP	229	MV	"	6-30-20	"
DO					

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
7:14	20.5	9.09	9.06	.03%	Pass
7:16	20.6	4.00	4.03	.03%	Pass
7:22	20.6	7.00	7.00	0.0%	Pass
7:25	20.6	10.0	9.98	0.2%	Pass
7:30	20.6	1413	1395	1.2%	Pass
7:34	20.7	229	226.7	2.3	Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

9.09
8.42

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 / 5419
Project Name:
Date of Calibration: 5-15-20
Date of Last Calibration: 5-14-20
Date(s) Instrument Used: ~~7-1~~ 5-15-20
Name of Person Performing Calibration: STR

EQUIPMENT

Equipment Type: YSI Professional Plus
Manufacturer: AJAX
Model/Model Number: YSI
Serial Number: C2601

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
DO	9.185	mg/L	—	—	—
Specific Conductance	1413	~~mmhos~~ uS/cm	Aqua Solutions	12/30/20	AJAX
Redox	229	mV	"	5/30/20	"
pH 4	4.01 ±0.01	SU	"	09/30/21	"
pH 10	10.00 ±0.01	SU	"	12/30/21	"
pH 7	7.00 ±001	SU	"	01/30/22	"

CALIBRATION

	Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
DO	6:49	19.5	9.185	9.25		Pass
spec cond	6:54	19.9	1413	1388		Pass
Redox	656	19.9	229	225		Pass
pH 4	659	~19.9	4.01	3.80		Pass
pH 10	703	19.9	10.00	10.05		Pass
pH 7	706	20.0	7.00	7.04		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 / 5419
Project Name: Anniston Annual GW Sampling
Date of Calibration: 5-15-20
Date of Last Calibration: 5-14-20
Date(s) Instrument Used: 5-15-20
Name of Person Performing Calibration: STM

EQUIPMENT

Equipment Type: Turbidity meter
Manufacturer: Hannah
Model/Model Number: Turbidimeter Hanna 98703
Serial Number: C310-7

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
Turbidity	0-10, 6.98	NTU	Gelex	—	ATAX
"	0-100, 59.3	"	"	—	"
"	0-1000, 541	"	"	—	"

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
712	—	6.98	~~32.5~~ 6.86		Pass
713	—	59.3	59.2		Pass
713	—	541	541		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 / 5419
Project Name: Appleton Annual April GW Sampling
Date of Calibration: 5-15-20
Date of Last Calibration: 5-14-20
Date(s) Instrument Used: 5-15-20
Name of Person Performing Calibration: STR

EQUIPMENT

Equipment Type: YSI Professional Plus water quality meter
Manufacturer: YSI
Model/Model Number: YSI
Serial Number: C2105

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
DO	8.07	mg/L	—	—	—
Specific Conductance	1413	~~mmhos~~ uS/cm	Aqua Solutions	12/30/20	YSI X
Redox	229	mV	—	5/30/20	"
pH 4	4.01 ± 0.01	SU	Aqua Solutions	09/30/21	"
pH 10	10.00 ± 0.01	SU	"	12/30/21	"
pH 7		SU	"	1/30/22	"

CALIBRATION

	Time	Temperature °C	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)	
DO	7:21	20.6	8.07	~~8.03~~ 7.99		Pass	
Spec cond	7:26	20.6	1413	1380		Pass	
redox	7:28	20.5	229	228.4		Pass	error stating reading was out of range and I calibrated anyway
pH 4	7:34	20.7	4.01	3.98		Pass	
pH 10	7:37	20.7	10.00	10.16		Pass	
pH 7	740	20.7	7.00	7.18		Pass	

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418/5419 Project Name: April Annual GW Sampling

Date of Calibration: 5-15-20 Date of Last Calibration: 5-14-20

Date(s) Instrument Used: 5-15-20 Name of Person Performing Calibration: STM

EQUIPMENT

Equipment Type: Turbidity Meter Manufacturer: HANNA

Model/Model Number: HI 98703 Serial Number: C3106

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
Turbidity	0-10, 6.48	NTU	Getex	—	AJAX
"	0-100, 58.5	"	"	—	"
"	0-1000, 562	"	"	—	"

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
747	—	6.48	6.62		Pass
748	—	58.5	60.1		Pass
748	—	562	569		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418/5419 | Project Name: Spring GW Sampling

Date of Calibration: 5-16-20 | Date of Last Calibration: 5-14-20

Date(s) Instrument Used: 5-16-20 | Name of Person Performing Calibration: STM

EQUIPMENT

Equipment Type: Water Quality Meter | Manufacturer: YSI

Model/Model Number: YSI / Professional Plus | Serial Number: 12101

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
DO	8.92	mg/L	—	—	—
Specific conductance	1413	mmhos or mS/cm	Aqua Solutions	12/30/20	AJAX
Redox	229	mV	—	5/30/20	—
pH 4	4.01 ± 0.01	SU	Aqua Solutions	09/30/21	AJAX
pH 7	7.00 ± 0.01	SU	"	1/30/22	"
pH 10	10.00 ± 0.01	SU	"	12/30/21	"

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
DO 6:57	21.0	8.92	8.91		Pass
Spec Cond 7:02	20.6	1413	1356		Pass
Redox 7:04	20.8	229	223.4		Pass
~~7:08~~ pH 10 7:14	~~20.7~~	~~4.01~~ 10.00	~~3.80~~ 10.07		Pass
pH 4 7:16	20.7	~~7.00~~ 4.01	4.11		Pass
pH 7 7:18	20.8	7.00	7.00		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 / 5419
Project Name: Spring GW Sampling
Date of Calibration: 5-16-20
Date of Last Calibration: 5-15-20
Date(s) Instrument Used: 5-16-20
Name of Person Performing Calibration: STR (check)

EQUIPMENT

Equipment Type: Turbidity Meter
Manufacturer: Hanna
Model/Model Number: Hanna HI 98703
Serial Number: C3107

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
Turbidity	6.48 (0-10)	NTU	Gelex	—	AJAX
"	58.5 (0-100)	"	"	—	"
"	562 (0-1000)	"	"	—	"

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
722	—	6.48	6.85		Pass
724	—	58.5	58.7		Pass
725	—	562	541		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 / 5419
Project Name: Spring GW Sampling
Date of Calibration: 5-16-20
Date of Last Calibration: 5-15-20
Date(s) Instrument Used: 5-16-20
Name of Person Performing Calibration: SAR

EQUIPMENT

Equipment Type: Water Quality meter
Manufacturer: YSI
Model/Model Number: YSI / Professional Plus
Serial Number: C2108

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
DO	8.848	mg/L	—	—	—
Redox	229	mV	—	5/30/20	—
Specific conductance	1413	micros or µS/cm	Aqua solutions	12/30/20	AJAX
pH 4	4.01 ± 0.01	SU	"	9/30/21	"
pH 10	10.00 ± 0.01	SU	"	12/30/21	"
pH 7	7.00 ± 0.01	SU	"	1/30/22	"

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
DO 735	21.9	8.848	8.97		Pass
DOsat 737	21.9	229	223.9		Pass
Spec cond 740	21.8	1413	1370		Pass
pH 743	21.8	4.01	4.01		Pass
pH 746	21.8	10.00	9.93		Pass
pH 751	22.0	7.00	7.03		

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 / 5419
Project Name: Spring GW Sampling
Date of Calibration: 5-16-20
Date of Last Calibration: 5-15-20
Date(s) Instrument Used: 5-16-20
Name of Person Performing Calibration: STM

EQUIPMENT

Equipment Type: Turbidity meter
Manufacturer: HANNA
Model/Model Number: Hanna HI 98703
Serial Number: C3106

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
Turbidity	6.48 (0-10)	NTU	Gelex	—	ATAX
"	58.5 (0-100)	"	"	—	"
"	562 (0-1000)	"	"	—	"

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
7:55	—	6.48	6.75		Pass
7:56	—	58.5	60.8		Pass
7:57	—	562	572		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 / 5419
Project Name: Annual GW event
Date of Calibration: 5/16/20
Date of Last Calibration: 5/15/20
Date(s) Instrument Used: 5/16/20
Name of Person Performing Calibration: JL

EQUIPMENT

Equipment Type: YSI
Manufacturer: YSI
Model/Model Number: PRO
Serial Number: C2108

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
PH 4	4.0 ±	PH	Aqua solution	9-30-21	Ajax
PH 7	7.0 ±	PH	Aqua solution	9-30-21	Ajax
PH 10	10.0 ±	PH	Aqua solution	12-30-20	Ajax
conductivity	1413	µs	Aqua solution	12-30-20	Ajax
ORP	229	MV	Aqua solution	6-30-20	Ajax
DO		DO			

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
7:30	21.8	8.92	8.88		Pass
7:34	21.8	4.0	3.95		Pass
7:38	21.8	7.0	6.96		Pass
7:41	21.9	10.0	10.03		Pass
7:51	22.0	1413	1362		Pass
7:55	22.2	229	229		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418/5419 Project Name: Anniston GW

Date of Calibration: 5/16/20 Date of Last Calibration: 5/14/20

Date(s) Instrument Used: 5/16/20 Name of Person Performing Calibration: JL

EQUIPMENT

Equipment Type: Turbidity Manufacturer:

Model/Model Number: HI 98703 Serial Number: C3103

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
0-10	± 10	NTU	Gelex	N/A	Gelex
0-100	± 100	NTU	"	"	"
0-1000	± 1000	NTU	"	"	"

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
7:58	N/A	0-10	6.51		Pass
7:59	N/A	0-100	58.2		Pass
8:00	N/A	0-1000	500		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 / 5419
Project Name: SProng GW Sampling
Date of Calibration: 5-18-20
Date of Last Calibration: 5-16-20
Date(s) Instrument Used: 5-18-20
Name of Person Performing Calibration: SH

EQUIPMENT

Equipment Type: ~~Water Q~~ Turbidity Meter
Manufacturer: Hanna
Model/Model Number: HANNA HI 98703
Serial Number: C3107

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
Turbidity	0-10 6.98	NTU	Gelex	—	AJAX
"	0-100 59.3	NTU	"	—	"
"	0-1000 541	NTU	"	—	"

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	Calibration	Pass/Fail (See "Notes" at bottom)
7:29	—	~~6.8~~ 6.98	~~6.8~~ 6.81		Pass
730	—	59.3	~~59.3~~ 58.9		Pass
731	—	541	~~547~~ 538		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 / 5419
Project Name: Spring GW Sampling
Date of Calibration: 5-18-20
Date of Last Calibration: 5-16-20
Date(s) Instrument Used: 5-18-20
Name of Person Performing Calibration: STR

EQUIPMENT

Equipment Type: Water Quality Meter
Manufacturer: YSI
Model/Model Number: YSI / Professional Plus
Serial Number: 12101

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
DO	9.05b	mg/L	—	—	—
Redox	229	mV	—	—	AJAX
Specific Conductance	1413	µS/cm or µmhos	Aqua Solutions	12/30/2020	AJAX
pH 4	4.01 ± 0.01	SU	"	09/30/21	"
pH 7	7.00 ± 0.01	SU	"	1/30/22	"
pH 10	10.00 ± 0.01	SU	"	12/30/21	"

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
DO 7:03	20.2	9.05b	9.04		Pass
Redox 7:07	20.4	229	224.3		Pass
Spec Cond 7:12	20.5	1413	1414		Pass
pH 4 7:16	nm	4.01	4.04		Pass
pH 10 7:18	nm	10.00	10.03		Pass
pH 7 7:21	20.6	7.00	7.19		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 / 5419 Project Name: Anniston GW

Date of Calibration: 5/18/20 Date of Last Calibration: 5/16/20

Date(s) Instrument Used: 5/18/20 Name of Person Performing Calibration: JL

EQUIPMENT

Equipment Type: YSI Pro Manufacturer: YSI

Model/Model Number: Pro Serial Number: C2105

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
PH 4	± 4.0	PH	Aqua solution	9/30/21	Ajax
PH7	± 7.0	PH	Aqua solution	9/30/21	Ajax
PH10	± 10.0	PH	Aqua solution	11/3/20	Ajax
conduct	1413	µs	Aqua solution	12/30/20	Ajax
ORP	229	MV	Aqua solution	6/30/20	Ajax
DO		DO mg/L			

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
8:05	21.4	8.88	8.89		Pass
8:08	21.3	4.00	3.98		Pass
8:10	21.5	7.00	7.03		Pass
8:12	21.3	10.0	10.03		Pass
8:16	21.4	1413	1413		Pass
8:20	21.4	229	235.0		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418/5419 | Project Name: Anniston GW

Date of Calibration: 5/18/20 | Date of Last Calibration: 5/16/20

Date(s) Instrument Used: 5/18/20 | Name of Person Performing Calibration: JL

EQUIPMENT

Equipment Type: YSI | Manufacturer: YSI

Model/Model Number: Pro | Serial Number: C 2108

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
4 PH	± 4.0	PH	Aqua solution	9-30-18	
7 PH	± 7.0	PH	Aqua solution	9-30-18	
10 PH	± 10.0	PH	Aqua solution	12/30/20	
conductivity	1413	µs	Aqua solution	12/30/2020	
ORP	229	MV	Aqua solution	6/30/2020	
DO					

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
7:22	21.0	8.92	8.92	0.0	Pass
7:26	21.2	4.00	3.92	.08	Pass
7:28	21.3	7.00	7.00	0.0	Pass
7:34	21.3	10.00	9.99	0.01	pass
7:36	21.4	1413	1402		pass
7:38	21.3	229	224.2		pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 / 5419 | Project Name: Anniston GW

Date of Calibration: 5/18/20 | Date of Last Calibration: 5/17/20

Date(s) Instrument Used: 5/18/20 | Name of Person Performing Calibration: JL

EQUIPMENT

Equipment Type: Turbidity | Manufacturer: Hanna

Model/Model Number: Hi 98703 | Serial Number: C 3106

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
0-10	± 10	NTU	Gelex	N/A	Ajax
0-100	± 100	↓	↓	↓	↓
0-1000	± 1000	↓	↓	↓	↓

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
8:27	N/A	0-10	6.76		Pass
8:28	N/A	0-100	60.1		Pass
8:28	N/A	0-1000	569		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 / 5419
Project Name: Anniston Ca(e)
Date of Calibration: 5/18/20
Date of Last Calibration: 4/16/20
Date(s) Instrument Used: 5/18/20
Name of Person Performing Calibration: JL

EQUIPMENT

Equipment Type: Turbidity
Manufacturer: Hanna
Model/Model Number: HI 98703
Serial Number: C13203

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
0-10	± 10	NTU	Celex	N/A	Aqua
0-100	± 100	NTU	Celex	N/A	Aqua
0-1000	± 1000	NTU	Celex	N/A	Aqua

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (Pass Within 10% of Standard)
7:47	N/A	10.0 ±	6.65		Pass
7:48	N/A	100.0 ±	54.8		pass
7:48	N/A	1000.0 ±	554		Pass

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

OCTOBER 2020 CALIBRATION LOGS

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GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418 | Project Name: Solutia Anniston RCRA GW Sampling

Date of Calibration: 10-21-2020 | Date of Last Calibration:

Date(s) Instrument Used: 10-21-2020 | Name of Person Performing Calibration: JA, STR

EQUIPMENT

Equipment Type: Multimeter | Manufacturer: YSI

Model/Model Number: C2119 | Serial Number: PRO

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
DO	8.884 @ 21.2°C	mg/L	n/a	n/a	n/a
ORP (232.69 @ 23.7°C)	~~n/a 233.08~~	mV		4/30/21	
pH	4.01 ± 0.01	pH	AquaSolutions	9/30/21	AquaSolutions
pH	7.00 ± 0.01	pH	"	1/30/22	"
pH	10.00 ± 0.01	pH	"	12/30/21	"
Cond	1413	~~µS/cm~~ µm/mS	"	5/30/21	"

CALIBRATION

	Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
DO	600	21.2°C	8.884	8.80	0.9%	P
pH	938	21.2°C	4.00	4.00	0%	P
pH	954	"	7.00	6.98	0.28%	P
pH	1002	"	10.00	10.00	0%	calibrated
pH	1009	"	7.00	7.00	0%	calibrated
pH	1012	"	4.01	4.01	0%	calibrated
pH	1015	"	10.00	10.00	0%	P
cond	1020	"	1.413	1.39	1.62%	P
ORP	1025	"	232.69	232.6	0%	

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5418
Project Name: Solutia Anniston RCRA GW Sampling
Date of Calibration: 10-21-2020
Date of Last Calibration: 2/10/2020
Date(s) Instrument Used: 10-21-2020
Name of Person Performing Calibration: JA, STR

EQUIPMENT

Equipment Type: Turb. Meter
Manufacturer: HANNA
Model/Model Number: HANNA C3112
Serial Number: HI 98703

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
Turbidity	5.85	NTU	Gelex	N/A	Gelex
"	59.0	NTU	"	"	"
"	572	NTU	"	"	"

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
949	25°C	5.85	5.81	0.69%	P
949	"	59.0	58.9	0.17%	P
949	"	572	569	0.52%	P

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5405
Project Name: Solutia Anniston RCRA GW Sampling
Date of Calibration: 10-22-2020
Date of Last Calibration: 10-21-2020
Date(s) Instrument Used: 10-22-2020
Name of Person Performing Calibration: STR, JA

EQUIPMENT

Equipment Type: Multimeter
Manufacturer: YSI
Model/Model Number: PRO
Serial Number: 22119

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
DO	8.83 @ 21.5°C	mg/L			
pH	4.01 ± 0.01	pH	Aquasolutions	9/30/21	Aquasolutions
pH	7 ± 0.01	"	"	1/30/22	"
pH	10 ± 0.01	"	"	12/30/21	"
ORP	~~240.80 @ 22.0°C~~ 234.77		@ 22.1°C	4/30/21	Ajax
conductivity	1413	µm/cm		5/30/21	

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
DO 541	21.5 °C	8.83	8.75	0.9%	P
ORP 635	22.1°C	234.77	234.77	0%	P
pH 637	22.3°C	4	4.07	1.7%	P
pH 638	"	7	6.98	0.3%	P
pH 642	"	10	10.01	0.1%	P
cond 649	"	1.413	1.37	3%	P

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 5419
Project Name: Solutia Anniston RCRA GW Sampling
Date of Calibration: 10-22-2020
Date of Last Calibration: 10-21-2020
Date(s) Instrument Used: 10-22-2020
Name of Person Performing Calibration: STR, JA

EQUIPMENT

Equipment Type: Turb meter
Manufacturer: HANNA
Model/Model Number: C3112
Serial Number: HI 98703

CALIBRATION STANDARDS

Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Brand/Name	Expiration Date	Standard Vendor
Turbidity	5.85	NTU	Gelex	N/A	Gelex
|	59.0	|	|	|	|
|	572	|	|	|	|

CALIBRATION

Time	Temperature	Standard Value	Instrument Response	% Deviation	Pass/Fail (See "Notes" to determine)
1646	22.1°C	5.85	5.78	1%	P
1646	|	59.0	58.9	0.3%	P
1647	|	572	571	0.1%	P

Notes:

Turbidity: Calibration values for turbidity must be within +/- 10% of the standard for values.

Dissolved Oxygen: Calibration values for DO must be within +/- 0.2 mg/L of the standard for values. Use Table "Dissolved Oxygen Saturation."

Conductivity: Calibration values for conductivity must be within +/- 5% of the standard for values.

pH: Calibration values for pH must be within +/- 0.2 pH units of the standard for values.

Oxidation Reduction Potential (ORP or Redox): Calibration values for ORP must be within +/- 10 mV units of the standard for values.

GSI Job No. 5739

2020 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia, Inc., Anniston, Alabama
RCRA Post-Closure Permit ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX E: HISTORIC DATA TABULATION

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

									RCRA Background Well						
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				EFFLUENT	EFFLUENT	EFFLUENT	EFFLUENT	EFFLUENT	MW-01B	MW-01B	MW-01B	MW-01B	MW-01B	MW-01B	MW-01B
Sample Date:		**RCRA**	**CERCLA**	4/7/2016	4/12/2017	4/11/2018	4/16/2019	5/18/2020	4/5/2016	10/4/2016	4/7/2017	10/25/2017	4/8/2018	10/26/2018	4/13/2019
Filtered:		**Concentration**	**Remediation**	No	No	No	No	No	No	No	No	No	No	No	No
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N	N	N	N	N	N	N
Sample ID:				Purge Water	Purge Water	Purge Water	Purge Water	Purge Water	MW-01B	MW-01B	MW-01B	MW-01B	MW-01B	MW-01B	MW-01B
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8260B, 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	-	-	-	-	-	<10	-	<10	-	<10	-	<10
1,4-Dichlorobenzene	106-46-7	***77***	--	-	-	-	-	-	<10	-	<10	-	<10	-	<10
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	-	-	-	-	-	<25	<25	<25	<25	<25	<25	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	-	-	-	-	-	<10	<10	<10	<10	<10	<10	<10
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 R	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 R	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 R	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 R	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 R	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 R	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 R	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5 R	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 R	<0.5
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	-	-	-	-	-	<1	<4	<1	<1	<1	<1	<1
Sulfotepp	3689-24-5	***6***	***7***	-	-	-	-	-	<1.5	<4	<1.5	<1.5	<1.5	<1.5	<1.5
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	-	-	-	-	-	<10	<10	<10	<10	<10	<10	<10
Manganese	7439-96-5	--	***880***	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	***2***	***2***	-	-	-	-	-	<0.2	-	<0.2	-	<0.2 J	-	<0.2 J

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 049
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Background Well			*RCRA Groundwater Detection Monitoring*								
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-01B	MW-01B	MW-01B	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A
Sample Date:		**RCRA**	**CERCLA**	10/9/2019	5/16/2020	10/21/2020	4/5/2016	10/5/2016	4/7/2017	10/26/2017	4/8/2018	10/27/2018	4/11/2019	10/9/2019	5/16/2020
Filtered:		**Concentration**	**Remediation**	No	No	No	No	No	No	No	No	No	No	No	No
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N	N	N	N	N	N	N
Sample ID:				MW-01B	MW-01B	MW-01 B	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	<1	<1	<1	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	-	<1 J	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	***77***	--	-	<1 J	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	<25	<25 J	<25 J	<25	<25	<25	<25	<25 H	<25	<25	<25	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	<10	<10 J	<10 J	<10	<10	<10	<10	<10 H	<10	11	<10	<10
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	<1	<1 R	<1	<1	<4	<1	<1	<1	<1	<1	<1	<1
Sulfotepp	3689-24-5	***6***	***7***	<1.5	<0.5 R	<1.5	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	<10	<10	<10	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	***880***	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	***2***	***2***	-	<0.2	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 050
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Groundwater Detection Monitoring											
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-11A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-13A
Sample Date:		**RCRA**	**CERCLA**	10/22/2020	4/5/2016	10/6/2016	4/7/2017	10/26/2017	4/8/2018	10/26/2018	4/11/2019	10/10/2019	5/16/2020	10/22/2020	4/5/2016
Filtered:		**Concentration**	**Remediation**	No	No	No	No	No	No	No	No	No	No	No	No
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N	N	N	N	N	N	N
Sample ID:				MW-11A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-13A
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	***77***	--	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	<25 J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	<10 J	17	<10	<10	<10	13	<10	11	<10	10	<10	<10
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	-	<0.5 L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	<1	<1	<4	<1	<1.5	<1	<1	<1	<1	<1	<1	<1
Sulfotepp	3689-24-5	***6***	***7***	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	***880***	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	***2***	***2***	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 051
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Groundwater Detection Monitoring								
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A
Sample Date:		**RCRA**	**CERCLA**	10/5/2016	4/7/2017	10/26/2017	4/8/2018	10/26/2018	4/11/2019	10/10/2019	5/15/2020	10/22/2020
Filtered:		**Concentration**	**Remediation**	No	No	No	No	No	No	No	No	No
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N	N	N	N
Sample ID:				MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B												
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM												
1,2-Dichlorobenzene	95-50-1	***612***	--	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	***77***	--	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	<25	<25	<25	<25	<25	<25	<25	<25	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A												
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Method 680												
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D												
Parathion	56-38-2	***75***	***85***	<4	<1	<1	<1	<1	<1	<1	<1	<1
Sulfotepp	3689-24-5	***6***	***7***	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C and 7470A												
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	***880***	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	***2***	***2***	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 052
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring											
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-09A	MW-09A	MW-09A	MW-09A	MW-09A	MW-14
Sample Date:		**RCRA**	**CERCLA**	4/5/2016	4/5/2016	4/8/2017	4/5/2018	4/16/2019	5/18/2020	4/5/2016	4/6/2017	4/5/2018	4/15/2019	5/18/2020	4/7/2016
Filtered:		**Concentration**	**Remediation**	No	No	No	No	No	No	No	No	No	No	No	No
Sample Type:		**Limits**	**Goals**	N	Dup	N	N	N	N	N	N	N	N	N	N
Sample ID:				MW-08	DUP-3-MW-08	MW-08	MW-08	MW-08	MW-08	MW-09A	MW-09A	MW-09A	MW-09A	MW-09A	MW-14
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	<10	-	<10	<10	<10	<1	<10	<10	<10	<10	<1 J	<10
1,4-Dichlorobenzene	106-46-7	***77***	--	<10	-	<10	<10	<10	<1	<10	<10	<10	<10	<1 J	<10
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	<25	-	<25	<25	<25	<25	<25	<25	<25	<25	<25 J	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10 J	<10
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1 J	<1
Sulfotepp	3689-24-5	***6***	***7***	<1.5	-	<1.5	<1.5	<1.5	<0.5	<1.5	<1.5	<1.5	<1.5	<0.5 J	<1.5
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Manganese	7439-96-5	--	***880***	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	***2***	***2***	<0.2	-	<0.2	<0.2 J	<0.2 J	<0.2	<0.2	<0.2	<0.2 J	<0.2 J	<0.2	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 053
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring											
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-14	MW-14	MW-14	MW-14	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15
Sample Date:		**RCRA**	**CERCLA**	4/8/2017	4/5/2018	4/16/2019	5/18/2020	4/6/2016	4/6/2016	4/6/2016	10/5/2016	4/6/2017	4/6/2017	10/24/2017	10/24/2017
Filtered:		**Concentration**	**Remediation**	No	No	No	No	No	Yes	Yes	No	No	Yes	No	No
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N	Dup	N	N	N	N	Dup
Sample ID:				MW-14	MW-14	MW-14	MW-14	MW-15	MW-15F	DUP-2F-MW-15	MW-15	MW-15	MW-15F	MW-15	Duplicate
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	<1	<1	<1	<1	<1	-	-	<1	<1	-	<1	<1
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	<10	<10	<10	<1	<10	-	-	-	<10	-	-	-
1,4-Dichlorobenzene	106-46-7	***77***	--	<10	<10	<10	<1	<10	-	-	-	<10	-	-	-
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	<25	<25	<25	<25	<25	-	-	<25	<25	-	<25	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	<10	<10	<10	<10	<10	-	-	<10	<10	-	<10	<10
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	-	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	-	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	-	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	-	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	-	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	-	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	-	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.5	-	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	-	<0.5	<0.5
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	<1	<1	<1	1.8 J	<1	-	-	<4	<1	-	<1	<1
Sulfotepp	3689-24-5	***6***	***7***	<1.5	<1.5	<1.5	<0.5	<1.5	-	-	<4	<1.5	-	<1.5	<1.5
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	<10	<10	<10	<10	<10	-	-	<10	<10	-	<10	<10
Manganese	7439-96-5	--	***880***	<10	<10	<10	<10	-	-	-	-	-	-	-	-
Mercury	7439-97-6	***2***	***2***	<0.2	<0.2 J	<0.2 J	<0.2	<0.2	<0.2	<0.2	-	0.33	<0.2	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 054
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring											
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-16	MW-16	MW-16
Sample Date:		**RCRA**	**CERCLA**	4/4/2018	4/4/2018	10/24/2018	4/10/2019	4/10/2019	10/8/2019	5/13/2020	5/13/2020	10/22/2020	4/6/2016	10/5/2016	4/6/2017
Filtered:		**Concentration**	**Remediation**	No	Yes	No	No	Yes	No	No	Yes	No	No	No	No
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N	N	N	N	N	N	N
Sample ID:				MW-15	MW-15F	MW-15	MW-15	MW-15 F	MW-15	MW-15	MW-15 F	MW-15	MW-16	MW-16	MW-16
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	<1	-	<1	<1	-	<1	<1	-	<1	<1	<1	<1
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	<10	-	-	<10	-	-	<1	-	-	<10	-	<10
1,4-Dichlorobenzene	106-46-7	***77***	--	<10	-	-	<10	-	-	<1	-	-	<10	-	<10
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	<25	-	<25	<25	-	<25 J	<25	-	<25	44	31	56
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	<10	-	<10	<10	-	<10	<10	-	<10	46	61	42
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	<1	-	<1	<1	-	<1 J	<1	-	<1	<1	<4	<1.4
Sulfotepp	3689-24-5	***6***	***7***	<1.5	-	<1.5	<1.5	-	<1.5	<0.5	-	<1.5	<1.5	<4	<1.6
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Manganese	7439-96-5	--	***880***	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	***2***	***2***	0.2 J	<0.2 J	-	0.88 J	<0.2 J	-	<0.2	<0.2	-	<0.2	-	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 055
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring											
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-20A	MW-20A	MW-20A
Sample Date:		**RCRA**	**CERCLA**	10/25/2017	4/4/2018	10/24/2018	4/10/2019	4/10/2019	10/8/2019	5/13/2020	5/13/2020	10/21/2020	4/6/2016	4/6/2016	4/6/2016
Filtered:		**Concentration**	**Remediation**	No	No	No	No	Yes	No	No	Yes	No	No	No	Yes
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N	N	N	N	N	Dup	Dup
Sample ID:				MW-16	MW-16	MW-16	MW-16	MW-16 F	MW-16	MW-16	MW-16 F	MW-16	MW-20A	DUP-1-MW-20A	DUP-1F-MW-20A
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	<1	<1	<1	<1	-	<1	<1	-	<1	2.3	2.3	-
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	-	<10	-	<10	-	-	<1	-	-	<10	<10	-
1,4-Dichlorobenzene	106-46-7	***77***	--	-	<10	-	<10	-	-	<1	-	-	<10	<10	-
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	<10	<10	-
4-Nitrophenol	100-02-7	***128***	***125***	68	53	57	51	-	<25	65	-	44 J	<25	<25	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	46	53	51	45	-	25	47	-	32 J	87	92	-
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	<50	<50	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	6.8	5.9	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.87	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.92	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<1 R	<0.6	<0.5	<0.5	<1.2	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.92	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.53	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.58	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	<1 R	<0.58	<0.5	<0.5	<1.2	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	<0.5	<0.5	<0.5	<1 R	<0.6	<0.5	<0.5	<1.2	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	<1	<1	<1	<1.4	-	<1	<1	-	<1 J	<1	<1	-
Sulfotepp	3689-24-5	***6***	***7***	<1.5	<1.5	<1.5	<1.6	-	<1.5	<0.5	-	<1.5 J	<1.5	<1.5	-
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Manganese	7439-96-5	--	***880***	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	***2***	***2***	-	<0.2 J	-	<0.2 J	<0.2 J	-	0.26	<0.2	-	<0.2	<0.2	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 056
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring											
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A
Sample Date:		**RCRA**	**CERCLA**	10/5/2016	10/5/2016	4/7/2017	4/7/2017	10/25/2017	4/4/2018	4/4/2018	4/4/2018	4/4/2018	10/25/2018	10/25/2018	4/10/2019
Filtered:		**Concentration**	**Remediation**	No	No	No	No	No	No	No	Yes	Yes	No	No	No
Sample Type:		**Limits**	**Goals**	N	Dup	N	Dup	N	N	Dup	N	Dup	N	Dup	N
Sample ID:				MW-20A	DUP-1-MW-20A	MW-20A	DUP-1-MW-20A	MW-20A	MW20A	Field Duplicate	MW20AF	Field Duplicate F	MW-20A	DUPLICATE	MW-20A
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	2.4	2.5	2.1	2.4	2.2	2.1	2.2	-	-	2.1	2	2.2
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	-	-	<10	<10	-	<10	<10	-	-	-	-	<10
1,4-Dichlorobenzene	106-46-7	***77***	--	-	-	<10	<10	-	<10	<10	-	-	-	-	<10
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	<10	-	-	<10	<10	-	-	-	-	<10
4-Nitrophenol	100-02-7	***128***	***125***	<25	<25	<25	<25	<25	<25	<25	-	-	<25	<25	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	100	120	59	61	51	64	55	-	-	76	78	68
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	<50	-	<50	<50	-	-	-	-	<50
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	5.2 J	8.1 J	-	7	6.1	-	-	-	-	<1 J
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	3.2 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	3.2 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	<4	<4	<1	<1	<1	<1	<1	-	-	<1	<1	<1
Sulfotepp	3689-24-5	***6***	***7***	<4	<4	<1.5	<1.5	<1.5	<1.5	<1.5	-	-	<1.5	<1.5	<1.5
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	<10	<10	<10	<10	<10	<10	<10	-	-	<10	<10	<10
Manganese	7439-96-5	--	***880***	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	***2***	***2***	-	-	<0.2	<0.2	-	<0.2 J	<0.2 J	-	-	-	-	<0.2 J

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 057
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring											
Matrix:		**RCRA**	**CERCLA**	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:		**Concentration**	**Remediation**	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	OW-06A	OW-06A	OW-06A
Sample Date:		**Limits**	**Goals**	4/10/2019	4/10/2019	10/9/2019	10/9/2019	5/13/2020	5/13/2020	5/13/2020	10/21/2020	10/21/2020	4/6/2016	4/7/2017	4/8/2018
Filtered:				No	Yes	No	No	No	No	Yes	No	No	No	No	No
Sample Type:				Dup	N	N	Dup	N	Dup	N	N	Dup	N	N	N
Sample ID:				Field Duplicate 1	MW-20A F	MW-20A	Duplicate	MW-20A	FIELD DUPLICATE 1	MW-20A F	MW-20 A	Duplicate	OW-06A	OW-6A	OW-06A
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	<5	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	2.1	-	2.3	2.4	2.3	2	-	3.9	4	<1	<1	<1
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	<10	-	-	-	2 J	2.9 J	-	-	-	<10	<10	<10
1,4-Dichlorobenzene	106-46-7	***77***	--	<10	-	-	-	1.2 J	1.4 J	-	-	-	<10	<10	<10
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	<10	-	-	-	<10	<10	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	<25	-	<25	<25 J	<25	<25	-	<25 J	<25 J	<25	<25	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	46	-	52	60 J	37	52	-	34 J	33 J	<10	<10	<10
Pentachlorophenol	87-86-5	***1***	***1***	<50	-	-	-	<50	<50	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	<1 J	-	-	-	8.5	11	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.59	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.59	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	<1	-	<1	<1	<1	<1	-	<1	<1	<1	<1	<1
Sulfotepp	3689-24-5	***6***	***7***	<1.5	-	<1.5	<1.5	<0.5	<0.5	-	<1.5	<1.5	<1.5	<1.5	<1.5
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	<10	-	<10	<10	<10	<10	-	<10	<10	<10	<10	<10
Manganese	7439-96-5	--	***880***	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	***2***	***2***	<0.2 J	-	-	-	<0.2 J	<0.2 J	-	-	-	<0.2	<0.2	<0.2 J

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 058
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring											
Matrix:		RCRA	CERCLA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OW-06A	OW-06A	OW-08A	OW-08A	OW-08A	OW-08A	OW-08A	OW-08A	OW-08A	OW-08A	OW-08A	OW-08A
Sample Date:		Concentration	Remediation	4/15/2019	5/18/2020	4/5/2016	4/5/2016	4/6/2017	4/6/2017	4/6/2017	4/4/2018	4/4/2018	4/10/2019	4/10/2019	5/15/2020
Filtered:		Limits	Goals	No	No	No	Yes	No	No	Yes	No	Yes	No	Yes	No
Sample Type:				N	N	N	N	N	Dup	N	N	N	N	N	N
Sample ID:				OW-06A	OW-06A	OW-08A	OW-08AF	OW-08A	OW-08A - DUP	OW-08AF	OW-08A	OW-08A F	OW-08A	OW-08A F	OW-08A
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	<1	<1	<1	-	<1	-	-	<1	-	<1	-	<1
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	<10 J	<1	<10	-	<10	-	-	<10	-	<10	-	<1
1,4-Dichlorobenzene	106-46-7	***77***	--	<10 J	<1	<10	-	<10	-	-	<10	-	<10	-	<1
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	<25 J	<25	<25	-	<25	-	-	<25	-	<25	-	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	<10	<10	-	<10	-	<10	-	<10
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	<10	<10	<10	-	<10	-	-	<10	-	<10	-	<10
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<1	<0.5	<1	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<1	<0.5	<1	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<1	<0.5	<1	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<1	<0.5	<1	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	6.5	<0.5	<0.5	-	<0.5	5.7	1.5	2	<1	5.7 J
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	3.9	<0.5	2.6	-	<0.5	3.3	1.4	1.6	<1	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	0.87	<0.5	0.66	-	<0.5	0.71	<1	<0.5	<1	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<1	<0.5	<1	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	<0.5	11.27	<0.5	3.26	-	<0.5	9.71	2.9	3.6	<1	5.7 J
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	<1	<1	<1	-	<1	-	-	<1	-	<1	-	<1
Sulfotepp	3689-24-5	***6***	***7***	<1.5	<0.5	<1.5	-	<1.5	-	-	<1.5	-	<1.5	-	<0.5
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	<10	<10	<10	-	<10	-	-	<10	-	<10	<10	<10
Manganese	7439-96-5	--	***880***	-	-	-	-	<10	-	-	<10	-	<10	<10	<10
Mercury	7439-97-6	***2***	***2***	<0.2 J	<0.2	<0.2	-	<0.2	-	-	<0.2 J	-	<0.2 J	<0.2 J	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 059
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring											
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OW-08A	OW-15	OW-15	OW-15	OW-15	OW-15	OW-15	OW-15	OW-15	OW-15	OW-15	OW-16A
Sample Date:		**RCRA**	**CERCLA**	5/15/2020	4/7/2016	4/7/2016	4/5/2017	4/5/2017	4/4/2018	4/4/2018	4/10/2019	4/10/2019	5/13/2020	5/13/2020	4/7/2016
Filtered:		**Concentration**	**Remediation**	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N	N	N	N	N	N	N
Sample ID:				OW-08A F	OW-15	OW-15F	OW-15	OW-15F	OW-15	OW-15 F	OW-15	OW-15 F	OW-15	OW-15 F	OW-16A
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	-	<1	-	1.2	-	<1	-	<1	-	<1	-	<1
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	-	<10	-	<10	-	<10	-	<10 J	-	<1	-	<10
1,4-Dichlorobenzene	106-46-7	***77***	--	-	<10	-	<10	-	<10	-	<10 J	-	<1	-	<10
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	-	<25	-	<25	-	<25	-	<25 J	-	<25	-	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	-	<10	-	<10	-	<10	-	<10 J	-	<10	-	<10
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<1	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	3.6	<0.5	1.3	<1 R	1.5	<1	2.3	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<1	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<1	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	0.81	<0.5	1.1	<0.5	<0.5	<1 R	<0.5	<1	<0.5	<0.5	19
Aroclor 1254	11097-69-1	--	--	<0.5	0.66	<0.5	0.87	<0.5	<0.5	<1 R	<0.5	<1	<0.5	<0.5	29
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<1	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<1	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	1.47	<0.5	5.57	<0.5	1.3	<1 R	1.5	<1	2.3	<0.5	48
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	-	<1	-	<1	-	<1	-	<1	-	<1	-	18
Sulfotepp	3689-24-5	***6***	***7***	-	<1.5	-	<1.5	-	<1.5	-	<1.5	-	<0.5	-	<1.5
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	<10	<10	-	<10	-	<10	-	<10	<10	<10	<10	37
Manganese	7439-96-5	--	***880***	<10	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	***2***	***2***	<0.2	<0.2	-	<0.2	-	<0.2 J	-	<0.2 J	<0.2 J	<0.2	<0.2	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 060
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring											
Matrix:		**RCRA**	**CERCLA**	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:		**Concentration**	**Remediation**	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-21A	OW-21A
Sample Date:		**Limits**	**Goals**	4/7/2016	4/5/2017	4/5/2017	4/5/2017	4/4/2018	4/4/2018	4/10/2019	4/10/2019	5/13/2020	5/13/2020	4/6/2016	4/6/2016
Filtered:				Yes	No	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
Sample Type:				N	N	Dup	N	N	N	N	N	N	N	N	N
Sample ID:				OW-16AF	OW-16A	OW-16A - DUP	OW-16AF	OW-16A	OW-16A F	OW-16A	OW-16A F	OW-16A	OW-16A F	OW-21A	OW-21AF
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	420	430	-	480	-	490 J	-	350	-	-	-
Chlorobenzene	108-90-7	***102***	--	-	0.62	-	-	1.2	-	<1	-	<1.3	-	9.3	-
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	-	<10	-	-	<10	-	<10	-	1.7 J	-	22	-
1,4-Dichlorobenzene	106-46-7	***77***	--	-	<10	-	-	<10	-	<10	-	1.1 J	-	<10	-
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	-	54	-	-	<25	-	<25	-	<25	-	19000	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	-	<10	-	-	<10	-	<10	-	<10	-	270	-
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5 H	-	<0.5	<0.5	<1 J	<0.5	<1 J	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	85 JH	-	<0.5	98	<1 J	<0.5	<1 J	3.7	<0.5 J	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	48 JH	-	<0.5	62	<1 J	12	<1 J	<0.5	<0.5 J	58	2.9
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5 H	-	<0.5	<0.5	<1 J	<0.5	<1 J	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5 H	-	<0.5	<0.5	<1 J	<0.5	<1 J	13	<0.5 J	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	15 JH	-	<0.5	22	<1 J	13	<1 J	8.3	<0.5 J	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5 H	-	<0.5	<0.5	<1 J	<0.5	<1 J	<0.5	<0.5 J	0.62	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5 H	-	<0.5	<0.58	<1 J	<0.5	<1 J	<0.5	<0.5 J	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	148 JH	-	<0.5	182	<1 J	25	<1 J	25	<0.5 J	58.62	2.9
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	-	28	-	-	18	-	15	-	23	-	3500	-
Sulfotepp	3689-24-5	***6***	***7***	-	<1.5	-	-	<1.5	-	<1.5	-	<1.6	-	<82	-
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	-	37	-	-	37	38	37	40	41	41	34	-
Manganese	7439-96-5	--	***880***	-	800	-	-	750	780	760	820	850	850	-	-
Mercury	7439-97-6	***2***	***2***	-	<0.2	-	-	<0.2 J	-	<0.2 J	<0.2 J	<0.2	<0.2	<0.2	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 061
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring											
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-22	OW-22	OW-22	OW-22
Sample Date:		**RCRA**	**CERCLA**	4/6/2017	4/6/2017	4/5/2018	4/5/2018	4/11/2019	4/11/2019	5/16/2020	5/16/2020	4/6/2016	4/6/2016	4/7/2017	4/8/2017
Filtered:		**Concentration**	**Remediation**	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	Yes	No
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N	N	N	N	N	Dup	N
Sample ID:				OW-21A	OW-21AF	OW-21A	OW-21A F	OW-21A	OW-21A F	OW-21A	OW-21A F	OW-22	OW-22F	DUP-1F-OW-22F	OW-22
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	12	-	<5.2	-	<13	-	14	-	<1	-	-	<1
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	22	-	17	-	<10	-	13	-	<10	-	-	<10
1,4-Dichlorobenzene	106-46-7	***77***	--	<10	-	<10	-	<10	-	4 J	-	<10	-	-	<10
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	17000	-	11000	-	11000	-	35000	-	<25	-	-	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	190	-	210	-	200	-	310	-	<10	-	-	<10
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<1 R	<2.4 R	<0.5 R	<0.87	<0.5	<0.5	<0.5	<0.5	<0.5 L
Aroclor 1221	11104-28-2	--	--	35	<0.5	41	<1 R	<2.4 J	<0.5	<0.92	<0.5	<0.5	<0.5	<0.5	<0.5 L
Aroclor 1232	11141-16-5	--	--	44	<0.5	<0.5	<1 R	<2.4 J	<0.5	<1.2	<0.5	<0.5	<0.5	<0.5	<0.5 L
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<1 R	<2.4 J	<0.5	<0.92	<0.5	<0.5	<0.5	<0.5	<0.5 L
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	41	<1 R	<2.4 J	<0.5	35	<0.5	0.94	<0.5	<0.5	<0.5 L
Aroclor 1254	11097-69-1	--	--	6 J	<0.5	5	<1 R	<2.4 J	<0.5	<0.53	<0.5	<0.5	<0.5	<0.5	<0.5 L
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<1 R	<2.4 J	<0.5	<0.58	<0.5	<0.5	<0.5	<0.5	<0.5 L
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<1 R	<2.4 J	<0.5	<1.2	<0.5	<0.5	<0.5	<0.5	<0.5 L
Total PCBs	1336-36-3	***0.5***	***0.5***	85 J	<0.5	87	<1 R	<2.4 J	<0.5	35	<0.5	0.94	<0.5	<0.5	<0.5 L
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	3100	-	1500 J	-	2900	-	4900 J	-	<1	-	-	<1
Sulfotepp	3689-24-5	***6***	***7***	<81	-	<32 J	-	<16	-	<160 J	-	<1.5	-	-	<1.5
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	38	-	34	32	32	31	28	30	<10	-	-	<10
Manganese	7439-96-5	--	***880***	840	-	780	740	740	800	700	760	-	-	-	-
Mercury	7439-97-6	***2***	***2***	<0.2	<0.2	<0.2 J	-	<0.2 J	<0.2 J	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
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TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 062
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring						
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OW-22	OW-22	OW-22	OW-22	OW-22	OW-22	OW-22
Sample Date:		**RCRA**	**CERCLA**	4/8/2017	4/5/2018	4/5/2018	4/11/2019	4/11/2019	5/16/2020	5/16/2020
Filtered:		**Concentration**	**Remediation**	Yes	No	Yes	No	Yes	No	Yes
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N	N
Sample ID:				OW-22F	OW-22	OW-22 F	OW-22	OW-22 F	OW-22	OW-22 F
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B										
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	-	<1	-	<1 R	-	<1	-
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM										
1,2-Dichlorobenzene	95-50-1	***612***	--	-	<10	-	<10	-	<1	-
1,4-Dichlorobenzene	106-46-7	***77***	--	-	<10	-	<10	-	<1	-
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	-	<25	-	<25	-	<25	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	-	<10	-	<10	-	<10	-
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A										
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	1.5	<1	0.89	<1	1.1 J	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	1.5	<1	0.89	<1	1.1 J	<0.5
PCBs, Homolog Specific by Method 680										
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D										
Parathion	56-38-2	***75***	***85***	-	<1	-	<1	-	<1	-
Sulfotepp	3689-24-5	***6***	***7***	-	<1.5	-	<1.5	-	<0.5	-
Metals by Methods 6010C and 7470A										
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	-	<10	-	<10	<10	<10	<10
Manganese	7439-96-5	--	***880***	-	-	-	-	-	-	-
Mercury	7439-97-6	***2***	***2***	<0.2	<0.2 J	-	<0.2 J	<0.2 J	<0.2	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 062
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action											
Matrix:		RCRA	CERCLA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10
Sample Date:		Concentration	Remediation	4/11/2017	4/11/2017	4/10/2018	4/10/2018	4/10/2018	4/10/2018	4/12/2019	4/12/2019	4/12/2019	4/12/2019	5/15/2020	5/15/2020
Filtered:		Limits	Goals	No	No	No	No	Yes	Yes	No	No	Yes	Yes	No	No
Sample Type:				N	Dup	N	Dup	N	Dup	N	Dup	N	Dup	N	Dup
Sample ID:				OW-10	DUP	OW-10	Field Duplicate 4	OW-10F	Field Duplicate 4 F	OW-10	Field Duplicate 4	OW-10F	Field Duplicate 4F	OW-10	Field Duplicate 4
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	***5***	4.9	5.2	<1	<1	-	-	3.3	3.8 J	-	-	3.5 J	4.8 J
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	***77***	--	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	-	<0.5	<0.5 J	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	24	-	<0.5	<0.5 J	10	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	-	1.4	1.2 J	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	-	<0.5	<0.5 J	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	-	<0.5	<0.5 J	<1	<1	0.67 J	0.73 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	-	<0.5	<0.5 J	<1	<1	0.88 J	1.2 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	-	<0.5	<0.5 J	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	-	<0.5	<0.5 J	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	24	-	1.4	1.2 J	10	12	1.55 J	1.93 J	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	-	-	-	-	-	-	-	-	-	-	-	-
Sulfotepp	3689-24-5	***6***	***7***	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	<4	4.1	<4	<4	6.3	5.8	<4	<4	4.8 J	4 J	<4	<4
Cobalt	7440-48-4	***694***	***73***	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	***880***	1600	1600	65	67	2000	2000	1400	1500	860	710	1300	1300
Mercury	7439-97-6	***2***	***2***	6.2 J	6.9	1 J	0.84 J	1.7 J	0.81 J	2.1 J	2.1 J	2.8 J	2.5 J	5.1	4.7

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
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   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 063
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action											
Matrix:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OW-10	OW-10	OWR-03S	OWR-03S	OWR-03S	OWR-03S	OWR-11	OWR-11	OWR-11	OWR-11	OWR-11	OWR-11
Sample Date:				5/15/2020	5/15/2020	4/10/2017	4/9/2018	4/15/2019	5/14/2020	4/11/2017	4/10/2018	4/10/2018	4/16/2019	4/16/2019	5/15/2020
Filtered:				Yes	Yes	No	No	No	No	No	No	Yes	No	Yes	No
Sample Type:				N	Dup	N	N	N	N	N	N	N	N	N	N
Sample ID:				OW-10 F	Field Duplicate 4 F	OWR-3S	OWR-03S	OWR-03S	OWR-03S	OWR-11	OWR-11	OWR-11F	OWR-11	OWR-11F	OWR-11
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	102	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	612	--	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	77	--	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	47	13	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	128	125	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	102	310	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5 L	<0.5	<0.5 R	<0.5	<0.5	<0.5	<1	<0.5 R	<0.5 R	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	94	190	<1	200	<0.5 J	180
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	96	190	2.9	150	<0.5 J	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5 J	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5 J	<5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5 J	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5	4.7	<1	1.8	<0.5 J	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5 J	<0.5
Total PCBs	1336-36-3	0.5	0.5	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	190	384.7	2.9	351.8	<0.5 J	180
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	75	85	-	-	-	-	-	-	-	-	-	-	-	-
Sulfotepp	3689-24-5	6	7	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	4	<4	<4	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	694	73	-	-	-	-	-	-	170	170	160	170	170	160
Manganese	7439-96-5	--	880	1300	1200	-	-	-	-	3400	3500	3300	3200	3400	3200
Mercury	7439-97-6	2	2	4.4	3.8	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 064
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action											
Matrix:		RCRA	CERCLA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:		Concentration	Remediation	OWR-11	OWR-13	OWR-13	OWR-13	OWR-13	OWR-13	OWR-13	OWR-13	OWR-13	OWR-14D	OWR-14D	OWR-14D
Sample Date:		Limits	Goals	5/15/2020	4/10/2017	4/10/2017	4/6/2018	4/6/2018	4/12/2019	4/12/2019	5/14/2020	5/14/2020	4/10/2017	4/6/2018	4/6/2018
Filtered:				Yes	No	No	No	Yes	No	Yes	No	Yes	No	No	No
Sample Type:				N	N	Dup	N	N	N	N	N	N	N	N	Dup
Sample ID:				OWR-11 F	OWR-13	DUP-01	OWR-13	OWR-13F	OWR-13	OWR-13 F	OWR-13	OWR-13 F	OWR-14D	OWR-14D	Field Duplicate 2
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	102	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	612	--	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	77	--	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	47	13	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	128	125	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	102	310	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<1	<0.5 R	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	2.5	1.6	19	<0.5	<0.5	<0.5	2	0.72	1.7
Aroclor 1254	11097-69-1	--	--	<0.5	4.2	4.1	7	5.6	9.3	<0.5	43	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	2.4	1.3	<0.5	<0.5	5.4	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	0.72	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	0.5	0.5	<0.5	4.2	4.1	12.62	8.5	28.3	<0.5	48.4	<0.5	2	0.72	1.7
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.48	<0.48	<0.5	<0.5	<0.5
Dichlorobiphenyl	25512-42-9	--	--	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.095	<0.095	0.11	<0.1	<0.1
Heptachlorobiphenyl	28655-71-2	--	--	-	<0.3	<0.3	0.43	0.3	0.39	<0.3	2.6	<0.29	<0.3	<0.3	<0.3
Hexachlorobiphenyl	26601-64-9	--	--	-	0.34 J	0.23 J	0.8	0.58	0.98	<0.2	5.3	<0.19	<0.2	<0.2	<0.2
Monochlorobiphenyl	27323-18-8	--	--	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.095	<0.095	<0.1	<0.1	<0.1
Nonachlorobiphenyl	53742-07-7	--	--	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.51	<0.48	<0.5	<0.5	<0.5
Octachlorobiphenyl	55722-26-4	--	--	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	-	<0.3	<0.3	<0.3
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	1.3	<0.29	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	2.5	2.1	4.9	3.5	6.1	<0.2	21	<0.19	<0.2	<0.2	0.27
Tetrachlorobiphenyl	26914-33-0	--	--	-	7.1	7	9.5	7.5	11	<0.2	27	<0.19	0.75	0.84	1.2
Trichlorobiphenyl	25323-68-6	--	--	-	0.65	0.48	0.54	0.44	0.44	<0.1	0.81	<0.095	0.42	0.31	0.4
Total PCBs	1336-36-3	0.5	0.5	-	10.59 J	9.81 J	16.17	12.32	18.91	<0.5	58.52	<0.48	1.28	1.15	1.87
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	75	85	-	-	-	-	-	-	-	-	-	-	-	-
Sulfotepp	3689-24-5	6	7	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	694	73	160	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	880	3300	-	-	-	-	-	-	-	-	46	36	42
Mercury	7439-97-6	2	2	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 065
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action											
Matrix:		RCRA	CERCLA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-15D	OWR-15D	OWR-15D
Sample Date:				4/6/2018	4/12/2019	4/12/2019	4/12/2019	4/12/2019	5/15/2020	5/15/2020	5/15/2020	5/15/2020	4/10/2017	4/10/2018	4/10/2018
Filtered:				Yes	No	No	Yes	Yes	No	No	Yes	Yes	No	No	Yes
Sample Type:				N	N	Dup	N	Dup	N	Dup	N	Dup	N	N	N
Sample ID:				OWR-14D F	OWR-14D	Field Duplicate 2	OWR-14D F	Field Duplicate 2F	OWR-14D	FIELD DUPLICATE 2	OWR-14D F	Field Duplicate 2 F	OWR-15D	OWR-15D	OWR-15D F
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	***77***	--	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<1	<0.5 R	<0.5 R	<0.5 R	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Aroclor 1221	11104-28-2	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	36	49	34
Aroclor 1232	11141-16-5	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Aroclor 1242	53469-21-9	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Aroclor 1248	12672-29-6	--	--	2.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	4 J	<0.5	<0.5	<0.5	<0.5	<1
Aroclor 1254	11097-69-1	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<1
Aroclor 1260	11096-82-5	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Aroclor 1268	11100-14-4	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Total PCBs	1336-36-3	***0.5***	***0.5***	2.5	<0.5	<0.5	<0.5	<0.5	<0.5	4 J	<0.5	<0.5	37.1	49	34
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.48	<0.49	<0.48	<0.48	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	<0.1	0.1	0.11	<0.1	<0.1	<0.096	<0.097	<0.095	<0.095	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	<0.3	<0.3	<0.3	<0.3	<0.3	<0.29	<0.29	<0.29	<0.29	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.19	<0.19	<0.19	<0.19	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	<0.096	<0.097	<0.095	<0.095	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.48	<0.49	<0.48	<0.48	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	<0.3	<0.3	<0.3	<0.3	<0.3	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	<0.29	<0.29	<0.29	<0.29	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	0.34	<0.2	<0.2	<0.2	<0.2	0.29	0.29	<0.19	<0.19	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	1.3	0.54	0.46	<0.2	<0.2	0.68	0.81	<0.19	<0.19	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	0.44	0.3	0.28	<0.1	<0.1	0.73	0.87	<0.095	<0.095	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	2.08	0.94	0.85	<0.5	<0.5	1.7	1.97	<0.48	<0.48	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	-	-	-	-	-	-	-	-	-	-	-	-
Sulfotepp	3689-24-5	***6***	***7***	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	***880***	<10	210	200	<10	<10	25	28	<10	<10	-	-	-
Mercury	7439-97-6	***2***	***2***	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyl
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 066
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action											
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OWR-15D	OWR-15D	OWR-15D	OWR-15D	T-04	T-04	T-04	T-04	T-04	T-04	T-04	T-06
Sample Date:		**RCRA**	**CERCLA**	4/16/2019	4/16/2019	5/15/2020	5/15/2020	4/9/2017	4/9/2018	4/9/2018	4/13/2019	4/13/2019	5/16/2020	5/16/2020	4/10/2017
Filtered:		**Concentration**	**Remediation**	No	Yes	No	Yes	No	No	Yes	No	Yes	No	Yes	No
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N	N	N	N	N	N	N
Sample ID:				OWR-15D	OWR-15DF	OWR-15D	OWR-15D F	T-04	T-04	T-04F	T-04	T-04F	T-04	T-04F	T-6
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	***77***	--	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5 R	<0.5 R	<0.5	<0.5	<0.5	<0.88	<1	<0.5 J	<0.5 J	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	39	<0.5 J	38	<0.5	2.6	<0.93	<1	<0.5 J	<0.5 J	<0.5	<0.5	0.63
Aroclor 1232	11141-16-5	--	--	16	<0.5 J	<0.5	<0.5	<0.5	<1.2	<1	<0.5 J	<0.5 J	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.93	<1	<0.5 J	<0.5 J	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5 J	<0.5	<0.5	<0.5	<1	<1	39 J	<0.5 J	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5 J	<0.5	<0.5	13	16	6.8	12 J	<0.5 J	13	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.59	<1	<0.5 J	<0.5 J	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5 J	<0.5	<0.5	<0.5	<1.2	<1	<0.5 J	<0.5 J	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	55	<0.5 J	38	<0.5	15.6	16	6.8	51 J	<0.5 J	13	<0.5	0.63
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	-	-	-	-	-	-	-	-	-	-	-	-
Sulfotepp	3689-24-5	***6***	***7***	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	***880***	-	-	-	-	220	190	100	140	100	160	92	-
Mercury	7439-97-6	***2***	***2***	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
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   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
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GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 067
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action											
Matrix:		RCRA	CERCLA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				T-06	T-06	T-06	T-06	T-06	T-06	T-09	T-09	T-09	T-09	T-09	T-09
Sample Date:				4/6/2018	4/6/2018	4/15/2019	4/15/2019	5/14/2020	5/14/2020	4/9/2017	4/9/2017	4/9/2018	4/9/2018	4/13/2019	4/13/2019
Filtered:				No	Yes	No	Yes	No	Yes	No	No	No	No	No	No
Sample Type:				N	N	N	N	N	N	N	Dup	N	Dup	N	Dup
Sample ID:				T-06	T-06 F	T-06	T-06F	T-06	T-06 F	T-9	DUP-1-T-9	T-09	Field Duplicate 3	T-09	Field Duplicate 3
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	*--*	*70*	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	*102*	*--*	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	*--*	*5*	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	*612*	*--*	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	*77*	*--*	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	*47*	*13*	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	*128*	*125*	-	-	-	-	-	-	<25	<25	<25	<25	<25	<25
Indeno(1,2,3-cd)pyrene	193-39-5	*--*	*0.2*	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	*102*	*310*	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	*1*	*1*	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	*1*	*1*	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	*--*	*--*	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1221	11104-28-2	*--*	*--*	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1232	11141-16-5	*--*	*--*	6.7	3.8	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1242	53469-21-9	*--*	*--*	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1248	12672-29-6	*--*	*--*	<0.5	<1	1.9	<0.5	3.1	<0.5	<0.5	-	<0.5	<0.5	2.7	3 J
Aroclor 1254	11097-69-1	*--*	*--*	<0.5	<1	0.83	<0.5	<0.5	<0.5	<0.5	-	0.54	0.69	0.73	0.7 J
Aroclor 1260	11096-82-5	*--*	*--*	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1268	11100-14-4	*--*	*--*	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5 J
Total PCBs	1336-36-3	*0.5*	*0.5*	6.7	3.8	2.73	<0.5	3.1	<0.5	<0.5	-	0.54	0.69	3.43	3.7 J
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	*--*	*--*	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	*--*	*--*	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	*--*	*--*	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	*--*	*--*	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	*--*	*--*	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	*--*	*--*	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	*--*	*--*	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	*--*	*--*	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	*--*	*--*	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	*--*	*--*	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	*--*	*--*	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	*0.5*	*0.5*	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	*75*	*85*	-	-	-	-	-	-	<1	<1	<1	<1	<1	<1
Sulfotepp	3689-24-5	*6*	*7*	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	*--*	*4*	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	*694*	*73*	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	*--*	*880*	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	*2*	*2*	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
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GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 068
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action											
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				T-09	T-09	T-09	T-09	T-10	T-10	T-10	T-10	T-18	T-18	T-18	T-18
Sample Date:		RCRA	CERCLA	4/13/2019	5/16/2020	5/16/2020	5/16/2020	4/9/2017	4/9/2018	4/13/2019	5/16/2020	4/10/2017	4/10/2018	4/10/2018	4/15/2019
Filtered:		Concentration	Remediation	Yes	No	No	Yes	No	No	No	No	No	No	Yes	No
Sample Type:		Limits	Goals	N	N	Dup	N	N	N	N	N	N	N	N	N
Sample ID:				T-09F	T-09	FIELD DUPLICATE 3	T-09F	T-10	T-10	T-10	T-10	T-18	T-18	T-18F	T-18
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	***77***	--	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	-	<25	<25	-	<25	<25	<25 J	<25	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<1	<0.5 R
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11	29 J	15	23 J
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<1	<0.5 R
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<1	<0.5 R
Aroclor 1248	12672-29-6	--	--	<0.5	2.7 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<1	<0.5 R
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5 J	0.59 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<1	<0.5 R
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<1	<0.5 R
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<1	<0.5 R
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5	2.7 J	0.59 J	<0.5	<0.5	<0.5	<0.5	<0.5	11	29 J	15	23 J
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	<1.3	<0.5	<0.5	<0.5
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	19	25	14	26
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	<0.58	<0.3	<0.3	<0.3
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	<0.29	<0.2	<0.2	<0.2
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	81	94	47	98
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	<0.94	<0.5	<0.5	<0.5
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	<0.73	<0.3	<0.3	<0.3
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	<0.27	<0.2	<0.2	<0.2
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	<0.25	<0.2	<0.2	<0.2
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	0.7	1.1	0.65	1.4
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	100.7	120.1	61.65	125.4
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	-	<1	<1	-	<1	<1	<1	<1	-	-	-	-
Sulfotepp	3689-24-5	***6***	***7***	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	***880***	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	***2***	***2***	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
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   L = Bias in sample result likely to be low
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   SIM = Selected ion monitoring
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GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 069
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action											
Matrix:		RCRA	CERCLA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				T-18	T-18	T-18	T-20	T-20	T-20	T-20	T-20	T-20	T-20	WEL-01	WEL-01
Sample Date:		Concentration	Remediation	4/15/2019	5/14/2020	5/14/2020	4/9/2017	4/8/2018	4/8/2018	4/13/2019	4/13/2019	5/15/2020	5/15/2020	4/9/2017	4/6/2018
Filtered:		Limits	Goals	Yes	No	Yes	No	No	Yes	No	Yes	No	Yes	No	No
Sample Type:				N	N	N	N	N	N	N	N	N	N	N	N
Sample ID:				T-18F	T-18	T-18 F	T-20	T-20	T-20 F	T-20	T-20F	T-20	T-20F	Wel-1	WEL-01
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	***77***	--	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<0.5 R	<0.5	<0.5	<0.5	<0.5 J	-	<0.5	-	<0.5	-	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5 J	31	<0.5	<0.5	<0.5 J	-	<0.5	-	<0.5	-	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5 J	-	<0.5	-	<0.5	-	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5 J	-	<0.5	-	<0.5	-	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5 J	-	<0.5	-	1.1	-	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5 J	-	<0.5	-	<0.5	-	0.51	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5 J	-	<0.5	-	<0.5	-	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5 J	-	<0.5	-	<0.5	-	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<0.5 J	31	<0.5	<0.5	<0.5 J	-	<0.5	-	1.1	-	0.51	<0.5
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	<0.5	<0.48	<0.49	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	<0.1	23	<0.097	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	<0.3	<0.29	<0.29	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	<0.2	<0.19	<0.19	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	0.11	67	<0.097	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	<0.5	<0.48	<0.49	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	<0.3	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	<0.29	<0.29	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	<0.2	<0.19	<0.19	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	<0.2	<0.19	<0.19	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	<0.1	1.4	<0.097	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	0.11	91.4	<0.49	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	-	-	-	-	-	-	-	-	-	-	-	-
Sulfotepp	3689-24-5	***6***	***7***	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	***880***	-	-	-	3700	3500	3300	3600	3800	2900	2700	21	270
Mercury	7439-97-6	***2***	***2***	-	-	-	<0.2	<0.2 J	-	<0.2	-	<0.2	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
   J = Estimated concentration
   L = Bias in sample result likely to be low
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SIM = Selected ion monitoring
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI ENVIRONMENTAL

TABLE E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2016-2020

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 070
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action											
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				WEL-01	WEL-01	WEL-01	WEL-01	WEL-01	WEL-04	WEL-04	WEL-04	WEL-04	WEL-04	WEL-04	WEL-04
Sample Date:		**RCRA**	**CERCLA**	4/6/2018	4/13/2019	4/13/2019	5/15/2020	5/15/2020	4/11/2017	4/9/2018	4/9/2018	4/15/2019	4/15/2019	5/14/2020	5/14/2020
Filtered:		**Concentration**	**Remediation**	Yes	No	Yes	No	Yes	No	No	Yes	No	Yes	No	Yes
Sample Type:		**Limits**	**Goals**	N	N	N	N	N	N	N	N	N	N	N	N
Sample ID:				WEL-01 F	WEL-01	WEL-01F	WEL-01	WEL-01 F	Wel-04	WEL-04	WEL-04 F	WEL-04	WEL-04F	WEL-04	WEL-04 F
Analyte	CASNo.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Method 8260B															
1,2,4-Trichlorobenzene	120-82-1	--	***70***	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	***102***	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	***5***	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270 SIM, and 8270D SIM															
1,2-Dichlorobenzene	95-50-1	***612***	--	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	***77***	--	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	***47***	***13***	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	***128***	***125***	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	***0.2***	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	***102***	***310***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	***1***	***1***	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Methods 608, 8082A, and 8081B/8082A															
Aroclor 1016	12674-11-2	--	--	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5 L	<0.5 J	<1 J	<0.5 R	<0.5 R	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5 L	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5 L	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5 L	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5 L	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<1	<0.5	<0.5 J	0.62	<0.5	<0.5 L	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5 L	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5 L	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5
Total PCBs	1336-36-3	***0.5***	***0.5***	<1	<0.5	<0.5 J	0.62	<0.5	<0.5 L	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Method 680															
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	1336-36-3	***0.5***	***0.5***	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Methods 8141B and 8270D															
Parathion	56-38-2	***75***	***85***	-	-	-	-	-	-	-	-	-	-	-	-
Sulfotepp	3689-24-5	***6***	***7***	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C and 7470A															
Beryllium	7440-41-7	--	***4***	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	***694***	***73***	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	***880***	44	21	16	21	14	81	62	38	86	60	88	57
Mercury	7439-97-6	***2***	***2***	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A and Indeno (1,2,3-cd) pyrene in well OW-08A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
3. Data Flags:
   H = Bias in sample result likely to be high
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   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act

GSI Job No. 5739

2020 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia, Inc., Anniston, Alabama
RCRA Post-Closure Permit ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX F: DATA VALIDATION

APPENDIX F
DATA VALIDATION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

1.0 EXECUTIVE SUMMARY

1.1 Results of Data Validation

This data validation report provides the results of an evaluation of data from six data packages issued by TestAmerica Laboratories, Inc. (TestAmerica), located in Savannah, Georgia. The data packages report the analyses of groundwater samples collected in May and October 2020 at the Solutia Inc. facility located in Anniston, Alabama.

As further detailed in this data validation report, review of the analytical data received from the laboratory have verified that the data are suitable for the intended purpose of i) verifying that a release to groundwater from WMA I has not occurred; ii) monitoring concentrations of constituents of concern (COCs) in groundwater; and iii) evaluating the effectiveness of corrective action efforts being implemented at WMA II, SWMU 1, the well OW-21A Corrective Action Area, and the OW-10 Corrective Action Area.

1.2 Summary of Groundwater Sampling Program

The 2020 groundwater sampling program at the Solutia Anniston facility included collection and analysis of a total of 62 groundwater samples in May and 9 groundwater samples in October, including field duplicates, blanks, and matrix spike/matrix spike duplicate (MS/MSD) pairs (see Table F.1 for a listing of sample identifications cross-referenced to laboratory identifications). Samples were analyzed for one or more of the following COCs:

- Volatile Organic Compounds (VOCs) by SW-846 Method 8260B
- Semi-volatile Organic Compounds (SVOCs) by SW-846 Method 8270D
- Pentachlorophenol by SW-846 8270D SIM
- Organochlorine Pesticides and Polychlorinated Biphenyls by SW-846 Method 8081B/8082A
- Polychlorinated Biphenyls (PCB homologs) by EPA Method 680
- Organophosphorous Pesticides by SW-846 Method 8141B
- Metals (i.e., cobalt, beryllium, and/or manganese) by SW-846 Method 6010C
- Mercury by SW-846 Method 7470A

1.3 Analytical Results

Detected analytes (i.e., reported greater than the laboratory reporting limit) for the May and October 2020 sampling events are summarized on Table 5 in the main body of this Annual Groundwater Monitoring Report. Historical results for groundwater sampling for the last five years (i.e., 2016 to 2020) are provided in Appendix E. Data acquired during

2020 included on Table 5 and Appendix E have been qualified as described in this data validation report. Complete laboratory reports are provided in Appendix H.

2.0 DATA VALIDATION PROCEDURES

2.1 Basis for Data Validation

The data validation and review detailed in this appendix has been conducted in accordance with applicable project and site-specific documents for the Solutia Anniston facility, as follows:

1. "Attachment 6.2: Quality Assurance Project Plan," in *RCRA Post-Closure Permit Renewal Application ALD 004 019 048*, Revision 1 (Solutia, Inc., 2018).
2. "OU-3 Performance Standards Verification Sampling and Analysis/Quality Assurance Project Plan" (PSVP; Solutia, 2015a).

For simplicity, these documents will be referred to as the Sampling and Analysis Plan (SAP) in this appendix.

2.2 Data Quality Objectives

Analytical data have been evaluated with respect to data (DQOs) specified in the SAP for representativeness, comparability, precision, accuracy, and completeness. Quality assurance/quality control (QA/QC) requirements for blanks, spikes, and duplicates (including matrix spikes/matrix spike duplicates; MS/MSDs), and calibrations are also provided in the SAP.

- ***Representativeness*** has been evaluated by verifying that groundwater samples have been collected from the locations specified in the SAP.

- ***Comparability*** has been evaluated by ensuring that standard sample collection, handling, and analytical procedures have been employed. The scope of this data quality analysis has involved review of the following:

  1. Completeness of laboratory data packages
  2. Chain-of-custody control and sample handling
  3. Holding times for sample preparation, extraction, and analysis
  4. Analytical methods used for sample analysis

- ***Accuracy*** has been evaluated by comparing the project-specific values for the recovery of spiked compounds, expressed as percent recovery, in applicable laboratory control samples, matrix spikes, surrogate spikes, and other spiked samples.

- ***Precision*** has been evaluated by comparing the project-specified relative percent difference (RPD) values to those calculated for duplicate samples, including laboratory control samples, matrix spike duplicates and field duplicates.

Matrix spike and duplicate results are meaningful when the matrix is obtained from the site being sampled. Therefore, only those QC issues noted for MS/MSD pairs prepared in the laboratory from samples collected from the Solutia site are discussed in this report.

- ***Completeness*** has been calculated as the percentage of total number of analytes that have met applicable DQO criteria with respect to the total number of analytes specified to be collected.

3.0 RESULTS OF DATA VALIDATION

3.1 Representativeness:

- ***Evaluation:*** Samples specified by the SAP were collected at designated monitoring well locations in May and October 2020. Sampling locations were specified in the SAP as being representative of the groundwater conditions at each location; therefore, the criterion of representativeness has been satisfied.

- ***Findings:*** No data have been qualified on the basis of unrepresentative samples.

3.2 Comparability:

3.2.1 Laboratory Data Packages

- ***Evaluation:*** The six data packages for the project are complete, providing results for the samples provided and analyzing the samples for the COCs specified on the chain-of-custody forms.

- ***Findings:*** No data have been qualified on the basis of insufficiencies in the laboratory data packages.

3.2.2 Chain-of-Custody Control and Sample Handling

- ***Evaluation:***

  i. Chain-of-Custody: Samples were evaluated for agreement with the chain-of-custody by the laboratory upon receipt. The paperwork was filled out properly, with a few minor exceptions, none of which warranted qualification of the results:

     a. Contingent analysis of pentachlorophenol by 8270D SIM for MW-20A (and associated duplicate samples) was not requested on the chain-of-custody for report 680-183870-1. This oversight was quickly detected upon review of the lab login documents and the lab was instructed via email to perform this analysis dependent upon non-detect results of pentachlorophenol by standard 8270D.

b. Three of five chain-of-custodies were inadvertently not signed by the field personnel before relinquishing sample coolers to FedEx.

ii. Sample Condition: With a single exception, samples were received by the laboratory in good condition, having been collected in appropriate containers and preserved in the field, if applicable. One one-liter amber bottle collected during the October 2020 sampling event was received broken, but enough sample volume was available from the second bottle to perform the appropriate analysis.

iii. Sample Temperatures: Sample receipt temperatures were less than 6°C, with the exception of 2 coolers from the May event. Two coolers shipped via FedEx on 5/18/20 were lost in transit and finally arrived to the lab on 5/21/20 at temperatures of 9.0 °C and 9.2 °C. This shipping error was compounded by an inter-lab transfer error, which also resulted in exceedances of holding times, as described below in section 3.2.3.

iv. Field Filtration: Samples were filtered in the field as specified in the SAP.

v. Field Performance: A piece of dedicated equipment from MW-14 was missing (tubing elbow connector), so a similar piece of equipment was taken from a nearby well (OW-21A), decontaminated, and used to purge and sample MW-14. OW-21A was sampled prior to MW-14 and had a Parathion concentration of 4,900 ug/L which may have affected the Parathion detection in MW-14 (1.8 ug/L).

- ***Findings:***

i. Chain-of-Custody: No samples were qualified on the basis of the chain-of-custody.

ii. Sample Condition: No samples were qualified on the basis of the sample condition.

iii. Sample Temperatures: Non-detect results for 8141B for MW-01B are rejected (R) due to exceedances of both preservative temperature and holding time due to FedEx shipping issues and inter-lab transfer error. Non-detect results for 8270D in MW-09A and MW-01B and for 8141B in MW-09A are qualified as estimated (UJ) due to exceedances of temperature due to FedEx shipping issues.

iv. Field Filtration: No samples were qualified on the basis of field filtration.

v. Field Performance: The Parathion detection in MW-14 is qualified as estimated (J).

3.2.3 Holding Times for Sample Preparation, Extraction, and Analysis

- ***Evaluation:*** Samples for all chemicals of concern (COCs) were prepared and analyzed within the holding times specified in SW-846, except for the analyses for 8141B in well MW-01B only, due to the FedEx shipping issues and inter-lab transfer error described above.

- ***Findings:*** As described in Section 3.2.2, non-detect results for 8141B for MW-01B are rejected (R) due to exceedances of both preservative temperature and holding time due to FedEx shipping issues and inter-lab transfer error.

3.2.4 Analytical Methods Used for Sample Analysis

- ***Evaluation:*** Methods specified in the Sampling and Analysis Plan as listed on the chain-of-custody forms were employed to analyze the samples collected in May and October 2020. However, the requested reporting limits for analysis of 1,2-Dichlorobenzene (1,2-DCB) and 1,4-Dichlorobenzene (1,4-DCB) by 8270D were more than the lab's method detection limit (MDL) but less than the lab's practical quantitation limit (PQL) for these analytes.

- ***Findings:*** Detections of 1,2-DCB and 1,4-DCB between the lab's MDL and PQL in samples MW-20A, Field Duplicate 1 (MW-20A), OW-16A, and OW-21A collected in May 2020 have been qualified as estimated (J).

3.3 Accuracy

3.3.1 Blanks

- ***Evaluation:*** No analytes were detected in field blank samples or laboratory method blank samples.

- ***Qualified Data:*** No data have been qualified on the basis of detections of COCs in blank samples.

3.3.2 Sample Dilutions

- ***Evaluation:*** Certain samples required dilution to bring the sample concentration within the instrument calibration range or due to evidence of matrix interference. Consequently, as specified by relevant methods, reporting limits were elevated proportional to the dilution.

- ***Findings:*** No data have been qualified on the basis of dilutions.

3.3.3 Surrogate Recoveries

3.3.3.1 Volatile Organic Compounds

- ***Evaluation:***

  i. Surrogate recoveries of Bromofluorobenzene were above project DQOs for VOC analysis of May 2020 samples MW-01B, MW-08, and their associated laboratory control sample (LCS), laboratory control sample duplicate (LCSD), and method blank (MB).

  ii. The surrogate recoveries of 4-Bromofluorobenzene in the MB, matrix spike (MS), and matrix spike duplicate (MSD) associated with OW-10 and Field Duplicate 4 were higher than project DQOs.

- ***Findings:***

  i. All VOC analytes in samples MW-01B and MW-08 collected in May 2020 were reported as less than the reporting limit, so no data were qualified on the basis of high surrogate recoveries.

  ii. Values greater than the reporting limit for Trichloroethene for samples OW-10 and Field Duplicate 4 were qualified as estimated (J).

3.3.3.2 Semi-Volatile Organic Compounds

- ***Evaluation:***

  i. Surrogate recoveries of 2-Fluorobiphenyl, Nitrobenzene-d5, and 2,4,6-Tribromophenol recovered below project DQOs but higher than 10% for SVOC analysis of samples MW-01B, MW-16, MW-20A, Duplicate (MW-20A), and MW-11A collected in October 2020. 2-Fluorophenol and Phenol-d5 also recovered below project DQOs but higher than 10% for SVOC analysis of the Duplicate (MW-20A) sample. Re-extraction would have occurred after the seven day holding time. Therefore, the initial extraction results were used.

  ii. The surrogate recovery of 2,4,6-Tribromophenol in the MS from October 2020 was lower than project DQOs. However, the surrogate recovery in the parent sample MW-15 was within project DQOs.

- ***Findings:***

  i. For SVOC analytes in samples MW-01B, MW-16, MW-20A, Duplicate (MW-20A), and MW-11A collected in October 2020, detected results were qualified as estimated (J) and results reported as less than the reporting limit were qualified as estimated (UJ) in accordance with the National Functional Guidelines for Organic Superfund Methods Data Review (EPA, 2017).

ii. No data from October 2020 were qualified on the basis of surrogate recoveries in MS samples.

3.3.3.3 PCBs

- ***Surrogate Recoveries for Decachlorobiphenyl:*** Surrogate recoveries of decachlorobiphenyl were less than project DQOs, but greater than or equal to 10%, for the analysis of polychlorinated biphenyls for samples OW-16A F and MW-20A F collected in May 2020.

- ***Findings:*** PCB results for samples OW-16A F and MW-20A F collected in May 2020 were reported by the laboratory as less than the reporting limit and qualified as estimated (UJ).

- ***Surrogate Recoveries for Tetrachloro-m-xylene:*** Surrogate recoveries of tetrachloro-m-xylene (TCX) were higher than the project DQOs for the polychlorinated biphenyls analysis of samples collected in May for sample OW-21A F.

- ***Findings:*** All PCBs in sample OW-21A F were reported as less than the reporting limit, so no data were qualified on the basis of high TCX recoveries. .

3.3.3.4 Organochlorine Pesticides

- ***Evaluation:***

i. Surrogate recoveries of Chlormefos were less than the project DQOs for the organochlorine pesticides analysis of the sample collected in May 2020 from well OW-21A.

ii. Surrogate recoveries of Chlormefos were less than the project DQOs for the organochlorine pesticides analysis of the sample collected in October 2020 from well MW-16.

- ***Findings:***

i. For organochlorine pesticide analytes in sample OW-21A collected in May 2020, detected results were qualified as estimated (J) and results reported as less than the reporting limit were qualified as estimated (UJ) in accordance with the National Functional Guidelines for Organic Superfund Methods Data Review (EPA, 2017).

ii. For organochlorine pesticide analytes in sample MW-16 collected in October 2020, results reported as less than the reporting limit were qualified as estimated (UJ) in accordance with the National Functional Guidelines for Organic Superfund Methods Data Review (EPA, 2017).

3.3.4 Laboratory Standards

3.3.4.1 PCBs

- ***QC Issue Noted:*** The laboratory noted that the samples OW-08A and OW-22 appeared to contain PCB Aroclors, but due to weathering or other environmental processes, do not closely match any of the laboratory's Aroclor standards used for instrument calibration. Therefore, the samples were quantified and reported as Aroclor 1248, but increased qualitative and quantitative uncertainty is associated with these results.

- ***Findings:*** Values greater than the reporting limit for Aroclor 1248 in samples OW-08A and OW-22 were qualified as estimated (J).

3.3.5 Matrix Spikes

3.3.5.1 Mercury Analyses

- ***QC Issue Noted:*** Recoveries of mercury in the MS/MSD sample collected at MW-20A in May 2020 (73%) were marginally less than project DQOs (75%).

- ***Findings:*** Mercury results less than the reporting limit for MW-20A and the associated Field Duplicate 1 were qualified as estimated (UJ).

3.4 Precision

3.4.1 Field Duplicates

- ***Evaluation:*** Four field duplicate pairs were analyzed and results having at least one detected analyte among the pair were included in the field precision comparison. Analyte pairs having an RPD of less than 35%, as specified in the SAP, were considered to be within control (see Table F.3). Duplicate samples met the project DQO for precision with four exceptions, all from the May 2020 event.

i. The RPD for 1,2-Dichlorobenzene in MW-20A/Field Duplicate 1 was 36.7%, only marginally greater than the DQO of 35%.

ii. The RPD for Aroclor 1248 in OWR-14D/Field Duplicate 2 was not calculated since the Aroclor was detected only in Field Duplicate 2 and not in the original OWR-14D sample.

iii. The RPD for Aroclor 1248 in T-09/Field Duplicate 3 was not calculated since the Aroclor was detected only in the original T-09 sample and not in Field Duplicate 3.

iv. The RPD for Aroclor 1254 in T-09/Field Duplicate 3 was not calculated since the Aroclor was detected only in Field Duplicate 3 and not in the original T-09 sample. However, the detection (0.59 µg/L) was very close to the reporting limit.

- ***Findings:***

i. For 1,2-Dichlorobenzene results in MW-20A and Field Duplicate 1 collected in May 2020, detected results were qualified as estimated (J).

ii. For Aroclor 1248 results in OWR-14D and Field Duplicate 3 collected in May 2020, detected results were qualified as estimated (J) and results reported as less than the reporting limit were qualified as estimated (UJ).

iii. For Aroclor 1248 results in T-09 and Field Duplicate 4 collected in May 2020, detected results were qualified as estimated (J) and results reported as less than the reporting limit were qualified as estimated (UJ).

iv. For Aroclor 1254 results in T-09 and Field Duplicate 4 collected in May 2020, detected results were qualified as estimated (J) and results reported as less than the reporting limit were qualified as estimated (UJ).

4.0 SUMMARY AND ACHIEVEMENT OF DATA QUALITY OBJECTIVES

The analytical data have been determined to be usable for the intended purpose of i) verifying that a release to groundwater from WMA I has not occurred; ii) monitoring concentrations of constituents of concern (COCs) in groundwater; and iii) evaluating the effectiveness of corrective action efforts being implemented at WMA II, SWMU 1, the well OW-21A Corrective Action Area, and the OW-10 Corrective Action Area. Completeness was calculated as >99%, based on a total of 861 individual analytes of which 2 values were rejected. Therefore, the completeness criterion of 85% specified in the SAP was exceeded by a wide margin.

5.0 REFERENCES

Solutia, 2015a. "OU-3 Performance Standards Verification Sampling and Analysis/Quality Assurance Project Plan," Solutia Inc., Anniston, Alabama, January 2015.

Solutia, 2018. "RCRA Post-Closure Permit Renewal Application, Rev. 1, RCRA Post-Closure Permit ALD 004 019 048, Solutia Inc., Anniston, Alabama, 1 November 2018.

USEPA, 2015. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA publication SW-846, Third Edition, Final Updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), and V (2015).

USEPA, 2017. "National Functional Guidelines for Organic Superfund Methods Data Review," OLEM 9355.0-135, EPA-5840-R-2017-001, United States Environmental Protection Agency, Washington, D.C., January 2017.

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TABLE F.1
CROSS-REFERENCE SAMPLE IDENTIFICATION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Sample Date	Lab Sample IDs	Field Sample ID	Project Sample ID	Matrix
May 2020				
5/13/2020	680-183870-1	MW-15	MW-15	Water
5/13/2020	680-183870-2	MW-16	MW-16	Water
5/13/2020	680-183870-3	OW-15	OW-15	Water
5/13/2020	680-183870-4	MW-20A	MW-20A	Water
5/13/2020	680-183870-5	OW-16A	OW-16A	Water
5/13/2020	680-183870-6	FIELD DUPLICATE 1	MW-20A	Water
5/13/2020	680-183870-7	Trip Blank	Trip Blank	Water
5/13/2020	680-183870-8	MW-15 F	MW-15	Water
5/13/2020	680-183870-9	MW-16 F	MW-16	Water
5/13/2020	680-183870-10	OW-15 F	OW-15	Water
5/13/2020	680-183870-11	OW-16A F	OW-16A	Water
5/13/2020	680-183870-12	MW-20A F	MW-20A	Water
5/14/2020	680-183934-5	OWR-03S	OWR-03S	Water
5/14/2020	680-183934-7	T-06	T-06	Water
5/14/2020	680-183934-10	WEL-04	WEL-04	Water
5/14/2020	680-183934-11 1317557	OWR-13	OWR-13	Water
5/14/2020	680-183934-12 1317558	T-18	T-18	Water
5/14/2020	680-183934-18	WEL-04 F	WEL-04	Water
5/14/2020	680-183934-19 1317556	OWR-13 F	OWR-13	Water
5/14/2020	680-183934-20 1317561	T-18 F	T-18	Water
5/14/2020	680-183934-21 1317562	OWR-14D F	OWR-14D	Water
5/14/2020	680-183934-24	T-06 F	T-06	Water
5/15/2020	680-183934-1	OW-10	OW-10	Water
5/15/2020	680-183934-2	Field Duplicate 4	OW-10	Water
5/15/2020	680-183934-3	OW-10 F	OW-10	Water
5/15/2020	680-183934-4	Field Duplicate 4 F	OW-10	Water
5/15/2020	680-183934-6	OWR-15D	OWR-15D	Water
5/15/2020	680-183934-8	OWR-11	OWR-11	Water
5/15/2020	680-183934-9	WEL-01	WEL-01	Water

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TABLE F.1
CROSS-REFERENCE SAMPLE IDENTIFICATION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Sample Date	Lab Sample IDs	Field Sample ID	Project Sample ID	Matrix
May 2020 (Continued)				
5/15/2020	680-183934-13 1317559	OWR-14D	OWR-14D	Water
5/15/2020	680-183934-14 1317560	FIELD DUPLICATE 2	OWR-14D	Water
5/15/2020	680-183934-15	TRIP BLANK 20200515	Trip Blank	Water
5/15/2020	680-183934-16	OWR-11 F	OWR-11	Water
5/15/2020	680-183934-17	WEL-01 F	WEL-01	Water
5/15/2020	680-183934-22 1317563	Field Duplicate 2 F	OWR-14D	Water
5/15/2020	680-183934-23	OWR-15D F	OWR-15D	Water
5/15/2020	680-183977-5	T-20	T-20	Water
5/15/2020	680-183977-9	T-20F	T-20	Water
5/15/2020	680-183984-1	MW-13A	MW-13A	Water
5/15/2020	680-183984-2	OW-08A	OW-08A	Water
5/15/2020	680-183984-3	OW-08A F	OW-08A	Water
5/16/2020	680-183977-1	T-04	T-04	Water
5/16/2020	680-183977-2	T-09	T-09	Water
5/16/2020	680-183977-3	T-10	T-10	Water
5/16/2020	680-183977-4	FIELD DUPLICATE 3	T-09	Water
5/16/2020	680-183977-8	T-04F	T-04	Water
5/16/2020	680-183977-10	T-09F	T-09	Water
5/16/2020	680-183984-7	MW-11A	MW-11A	Water
5/16/2020	680-183984-8	OW-21A	OW-21A	Water
5/16/2020	680-183984-9	OW-21A F	OW-21A	Water
5/16/2020	680-183984-10	OW-22	OW-22	Water
5/16/2020	680-183984-11	OW-22 F	OW-22	Water
5/16/2020	680-183984-12	MW-12A	MW-12A	Water
5/16/2020	680-183984-15	MW-01B	MW-01B	Water
5/18/2020	680-183977-6	TRIP BLANK 20200518	Trip Blank	Water
5/18/2020	680-183977-7	EQUIPMENT BLANK	Equipment Blank	Water
5/18/2020	680-183984-4	MW-08	MW-08	Water
5/18/2020	680-183984-5	Purge Water	EFFLUENT	Water
5/18/2020	680-183984-6	MW-14	MW-14	Water

TABLE F.1
CROSS-REFERENCE SAMPLE IDENTIFICATION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Sample Date	Lab Sample IDs	Field Sample ID	Project Sample ID	Matrix
May 2020 (Continued)				
5/18/2020	680-183984-13	OW-06A	OW-06A	Water
5/18/2020	680-183984-14	MW-09A	MW-09A	Water
5/18/2020	680-183984-16	Trip Blank 20200518R	Trip Blank	Water
October 2020				
10/21/2020	680-190509-1	MW-01 B	MW-01B	Water
10/21/2020	680-190509-3	MW-16	MW-16	Water
10/21/2020	680-190509-4	MW-20 A	MW-20A	Water
10/21/2020	680-190509-5	Duplicate	MW-20A	Water
10/22/2020	680-190509-2	MW-15	MW-15	Water
10/22/2020	680-190509-7	MW-11A	MW-11A	Water
10/22/2020	680-190509-8	MW-12A	MW-12A	Water
10/22/2020	680-190509-9	MW-13A	MW-13A	Water
10/23/2020	680-190509-6	Trip Blank 20201023	Trip Blank	Water

1. Samples analyzed by Eurofins TestAmerica Laboratories, Inc. Denver, Eurofins TestAmerica Laboratories, Inc. Savannah, and Eurofins Lancaster Laboratories Environmental.

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TABLE F.2
QUALIFIED ANALYTICAL DATA

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Sample ID	Sample Date	Analyte	Lab Result	Lab Qualifier	Units	Data Validation Qualifier	Reason for Qualification	Batch Number	Report Number
May 2020									
MW-20A	5/13/2020	1,2-Dichlorobenzene	2	J	ug/L	J	Detection between MDL & PQL; RPD between original and duplicate >35%.	680-619925	680-183870-4
MW-20A	5/13/2020	1,4-Dichlorobenzene	1.2	J	ug/L	J	Detection between MDL & PQL	680-619925	680-183870-4
MW-20A	5/13/2020	Mercury	0.0002	<U F1	mg/L	UJ	Low MS and MSD recovery	680-619198	680-183870-4
OW-16A	5/13/2020	1,2-Dichlorobenzene	1.7	J	ug/L	J	Detection between MDL & PQL	680-619925	680-183870-5
OW-16A	5/13/2020	1,4-Dichlorobenzene	1.1	J	ug/L	J	Detection between MDL & PQL	680-619925	680-183870-5
FIELD DUPLICATE 1	5/13/2020	1,2-Dichlorobenzene	2.9	J	ug/L	J	Detection between MDL & PQL; RPD between original and duplicate >35%.	680-619925	680-183870-6
FIELD DUPLICATE 1	5/13/2020	1,4-Dichlorobenzene	1.4	J	ug/L	J	Detection between MDL & PQL	680-619925	680-183870-6
FIELD DUPLICATE 1	5/13/2020	Mercury	0.0002	<U	mg/L	UJ	Low MS and MSD recovery	680-619198	680-183870-6
OW-16A F	5/13/2020	PCB-1016, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-11
OW-16A F	5/13/2020	PCB-1221, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-11
OW-16A F	5/13/2020	PCB-1232, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-11
OW-16A F	5/13/2020	PCB-1242, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-11
OW-16A F	5/13/2020	PCB-1248, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-11
OW-16A F	5/13/2020	PCB-1254, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-11
OW-16A F	5/13/2020	PCB-1260, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-11
OW-16A F	5/13/2020	PCB-1268, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-11
MW-20A F	5/13/2020	PCB-1016, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-12
MW-20A F	5/13/2020	PCB-1221, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-12
MW-20A F	5/13/2020	PCB-1232, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-12
MW-20A F	5/13/2020	PCB-1242, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-12
MW-20A F	5/13/2020	PCB-1248, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-12
MW-20A F	5/13/2020	PCB-1254, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-12
MW-20A F	5/13/2020	PCB-1260, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-12
MW-20A F	5/13/2020	PCB-1268, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-619461	680-183870-12
OW-10	5/15/2020	Trichloroethene	3.5		ug/L	J	High BFB surrogate recovery in MB, MS, and MSD.	680-621712	680-183934-1
Field Duplicate 4	5/15/2020	Trichloroethene	4.8		ug/L	J	High BFB surrogate recovery in MB, MS, and MSD.	680-621712	680-183934-2
OWR-14D	5/15/2020	PCB-1248	0.5	<U	ug/L	UJ	RPD between original (ND) and duplicate not calculated.	680-621262	680-183934-13
FIELD DUPLICATE 2	5/15/2020	PCB-1248	4		ug/L	J	RPD between original (ND) and duplicate not calculated.	680-621262	680-183934-14
T-09	5/16/2020	PCB-1248	2.7	p	ug/L	J	RPD between original and duplicate (ND) not calculated	680-621804	680-183977-2
T-09	5/16/2020	PCB-1254	0.5	<U	ug/L	UJ	RPD between original (ND) and duplicate not calculated	680-621712	680-183977-2
FIELD DUPLICATE 3	5/16/2020	PCB-1248	0.5	<U	ug/L	UJ	RPD between original and duplicate (ND) not calculated	680-621262	680-183977-4
FIELD DUPLICATE 3	5/16/2020	PCB-1254	0.59		ug/L	J	RPD between original (ND) and duplicate not calculated	680-621804	680-183977-4
OW-08A	5/15/2020	PCB-1248	5.7		ug/L	J	Mismatch with lab PCB Aroclor standards	680-621337	680-183984-2
MW-14	5/18/2020	Parathion	1.8		ug/L	J	Field personnel error related to dedicated sampling equipment	280-496581	680-183984-6
OW-21A	5/16/2020	Parathion	4900		ug/L	J	Low Chlormefos surrogate recovery	280-497269	680-183984-8
OW-21A	5/16/2020	Tetraethyldithiopyrophosphate	160	<U	ug/L	UJ	Low Chlormefos surrogate recovery	280-497269	680-183984-8
OW-21A	5/16/2020	1,4-Dichlorobenzene	4	J	ug/L	J	Detected concentration is between the lab's MDL and PQL	680-620854	680-183984-8
OW-22	5/16/2020	PCB-1248	1.1	p	ug/L	J	Mismatch with lab PCB Aroclor standards	680-621337	680-183984-10
MW-09A	5/18/2020	Parathion	1	<U	ug/L	UJ	Received > 6°C	280-496369	680-183984-14
MW-09A	5/18/2020	Tetraethyldithiopyrophosphate	0.5	<U	ug/L	UJ	Received > 6°C	280-496369	680-183984-14
MW-09A	5/18/2020	1,2-Dichlorobenzene	1	<U	ug/L	UJ	Received > 6°C	680-620999	680-183984-14
MW-09A	5/18/2020	1,4-Dichlorobenzene	1	<U	ug/L	UJ	Received > 6°C	680-620999	680-183984-14
MW-09A	5/18/2020	4-Nitrophenol	25	<U	ug/L	UJ	Received > 6°C	680-620999	680-183984-14

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TABLE F.2
QUALIFIED ANALYTICAL DATA

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Sample ID	Sample Date	Analyte	Lab Result	Lab Qualifier	Units	Data Validation Qualifier	Reason for Qualification	Batch Number	Report Number
May 2020 (Continued)									
MW-09A	5/18/2020	o,o',o"-Triethylphosphorothioate	10	<U	ug/L	UJ	Received > 6°C	680-620999	680-183984-14
MW-01B	5/15/2020	Parathion	1	<U H	ug/L	R	Extracted after holding time and received > 6°C	280-496581	680-183984-15
MW-01B	5/15/2020	Tetraethyldithiopyrophosphate	0.5	<U H	ug/L	R	Extracted after holding time and received > 6°C	280-496581	680-183984-15
MW-01B	5/15/2020	1,2-Dichlorobenzene	1	<U	ug/L	UJ	Received > 6°C	680-620999	680-183984-15
MW-01B	5/15/2020	1,4-Dichlorobenzene	1	<U	ug/L	UJ	Received > 6°C	680-620999	680-183984-15
MW-01B	5/15/2020	4-Nitrophenol	25	<U	ug/L	UJ	Received > 6°C	680-620999	680-183984-15
MW-01B	5/15/2020	o,o',o"-Triethylphosphorothioate	10	<U	ug/L	UJ	Received > 6°C	680-620999	680-183984-15
October 2020									
MW-01 B	10/21/2020	4-Nitrophenol	25	<U	ug/L	UJ	Low FBP, NBZ, TBP recoveries	680-642324	680-190509-1
MW-01 B	10/21/2020	o,o',o"-Triethylphosphorothioate	10	<U	ug/L	UJ	Low FBP, NBZ, TBP recoveries	680-642324	680-190509-1
MW-16	10/21/2020	Parathion	1	<U	ug/L	UJ	Low Chlormefos recovery	280-514874	680-190509-3
MW-16	10/21/2020	Tetraethyldithiopyrophosphate	1.5	<U	ug/L	UJ	Low Chlormefos recovery	280-514874	680-190509-3
MW-16	10/21/2020	4-Nitrophenol	44		ug/L	J	Low FBP, NBZ recoveries	680-642324	680-190509-3
MW-16	10/21/2020	o,o',o"-Triethylphosphorothioate	32		ug/L	J	Low FBP, NBZ recoveries	680-642324	680-190509-3
MW-20 A	10/21/2020	4-Nitrophenol	25	<U	ug/L	UJ	Low FBP, NBZ recoveries	680-642324	680-190509-4
MW-20 A	10/21/2020	o,o',o"-Triethylphosphorothioate	34		ug/L	J	Low FBP, NBZ recoveries	680-642324	680-190509-4
Duplicate	10/21/2020	4-Nitrophenol	25	<U	ug/L	UJ	Low FBP, 2FP, NBZ, PHL, TBP recoveries	680-642324	680-190509-5
Duplicate	10/21/2020	o,o',o"-Triethylphosphorothioate	33		ug/L	J	Low FBP, 2FP, NBZ, PHL, TBP recoveries	680-642324	680-190509-5
MW-11A	10/22/2020	4-Nitrophenol	25	<U	ug/L	UJ	Low FBP, NBZ, TBP recoveries	680-642324	680-190509-7
MW-11A	10/22/2020	o,o',o"-Triethylphosphorothioate	10	<U	ug/L	UJ	Low FBP, NBZ, TBP recoveries	680-642324	680-190509-7

Notes:

1. Samples analyzed by Eurofins TestAmerica Laboratories, Inc. Denver, Eurofins TestAmerica Laboratories, Inc. Savannah, and Eurofins Lancaster Laboratories Environmental

2. 2FP = 2-Fluorophenol
   BFB = Bromofluorobenzene
   DCB = Decachlorobiphenyl
   FBP = 2-Fluorobiphenyl
   MB = Method Blank
   MDL = Method Detection Limit
   MS = Matrix spike
   MSD = Matrix spike duplicate
   NBZ = Nitrobenzene-d5
   ND = Non detect
   PCB = Polychlorinated Biphenyl
   PHL = Phenol-d5
   PQL = Practical Quantitation Limit
   RPD = Relative Percent Difference
   TBP = 2,4,6-Tribromophenol

3. Lab Qualifier Codes:
   F1 = MS and/or MSD recovery exceeds control limits.
   H = Sample was prepped or analyzed beyond the specified holding time
   J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
   p = The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
   U = Analyte was not detected at or above the reporting limit

4. Validation Qualifier Codes:
   J = Estimated, the analyte was detected and identified
   R = Rejected
   UJ = Not detected, estimated

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TABLE F.3
FIELD PRECISION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Sample ID	Duplicate Sample ID	Filtered	Sample Date	Matrix	Analyte	Sample Result (µg/L)	Duplicate Result (µg/L)	RPD (%)	Within Limits
May 2020									
MW-20A	Field Duplicate 1	No	5/13/2020	Water	1,2-Dichlorobenzene	2	2.9	36.7	No
MW-20A	Field Duplicate 1	No	5/13/2020	Water	1,4-Dichlorobenzene	1.2	1.4	15.4	Yes
MW-20A	Field Duplicate 1	No	5/13/2020	Water	Chlorobenzene	2.3	2	14.0	Yes
MW-20A	Field Duplicate 1	No	5/13/2020	Water	O,O,O-Triethylphosphorothioate	37	52	33.7	Yes
MW-20A	Field Duplicate 1	No	5/13/2020	Water	Pentachlorophenol	8.5	11	25.6	Yes
OW-10	Field Duplicate 4	No	5/15/2020	Water	Manganese	1300	1300	0.0	Yes
OW-10	Field Duplicate 4	No	5/15/2020	Water	Mercury	5.1	4.7	8.2	Yes
OW-10	Field Duplicate 4	No	5/15/2020	Water	Trichloroethylene	3.5	4.8	31.3	Yes
OW-10	Field Duplicate 4F	Yes	5/15/2020	Water	Manganese	1300	1200	8.0	Yes
OW-10	Field Duplicate 4F	Yes	5/15/2020	Water	Mercury	4.4	3.8	14.6	Yes
OWR-14D	Field Duplicate 2	No	5/15/2020	Water	Trichlorobiphenyls	0.73	0.87	17.5	Yes
OWR-14D	Field Duplicate 2	No	5/15/2020	Water	Tetrachlorobiphenyls	0.68	0.81	17.4	Yes
OWR-14D	Field Duplicate 2	No	5/15/2020	Water	Pentachlorobiphenyls	0.29	0.29	0.0	Yes
OWR-14D	Field Duplicate 2	No	5/15/2020	Water	Manganese	25	28	11.3	Yes
OWR-14D	Field Duplicate 2	No	5/15/2020	Water	Aroclor 1248	<0.5	4	NC	No
T-09	Field Duplicate 3	No	5/16/2020	Water	Aroclor 1248	2.7	<0.5	NC	No
T-09	Field Duplicate 3	No	5/16/2020	Water	Aroclor 1254	<0.5	0.59	NC	No
October 2020									
MW-20A	Duplicate	No	10/21/2020	Water	Chlorobenzene	3.9	4	2.5	Yes
MW-20A	Duplicate	No	10/21/2020	Water	O,O,O-Triethylphosphorothioate	34	33	3.0	Yes

Notes:

1. Samples analyzed by Eurofins TestAmerica Laboratories, Inc. Denver, Eurofins TestAmerica Laboratories, Inc. Savannah, and Eurofins Lancaster Laboratories Environmental
2. RPD = ((SR - DR)*200)/(SR + DR). DR = Duplicate Result
   SR = Sample Result NC = Not Calculated

GSI Job No. 5739

2020 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia, Inc., Anniston, Alabama
RCRA Post-Closure Permit ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX G: MANN-KENDALL STATISTICAL ANALYSES

GSI ENVIRONMENTAL

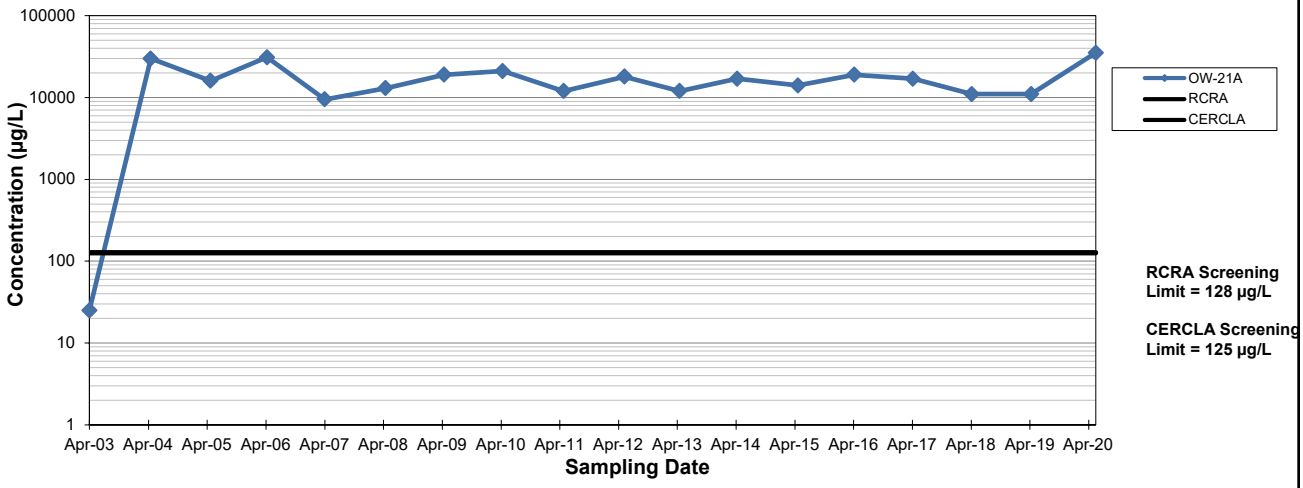
FIGURE G.1
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS: 4-NITROPHENOL - RCRA CORRECTIVE ACTION MONITORING

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Date Analyzed: 10 February 2021
Facility: Solutia, Anniston

Constituent: 4-Nitrophenol
Concentration Units: µg/L

Well Identification:		OW-21A	OW-21A					
Sampling Event	Date	4-NITROPHENOL CONCENTRATION (µg/L)						
1	Apr-03	25						
2	Apr-04	30000	30000					
3	Apr-05	16000	16000					
4	Apr-06	31000	31000					
5	Apr-07	9500	9500					
6	Apr-08	13000	13000					
7	Apr-09	19000	19000					
8	Apr-10	21000	21000					
9	Apr-11	12000	12000					
10	May-12	18000	18000					
11	Apr-13	12000	12000					
12	Apr-14	17000	17000					
13	Apr-15	14000	14000					
14	Apr-16	19000	19000					
15	Apr-17	17000	17000					
16	Apr-18	11000	11000					
17	Apr-19	11000	11000					
18	May-20	35000	35000					
Coefficient of Variation:		0.50	0.42					
Mann-Kendall Statistic (S):		-1	-18					
Confidence Factor:		50.0%	75.5%					
Concentration Trend:		Stable	Stable					



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.

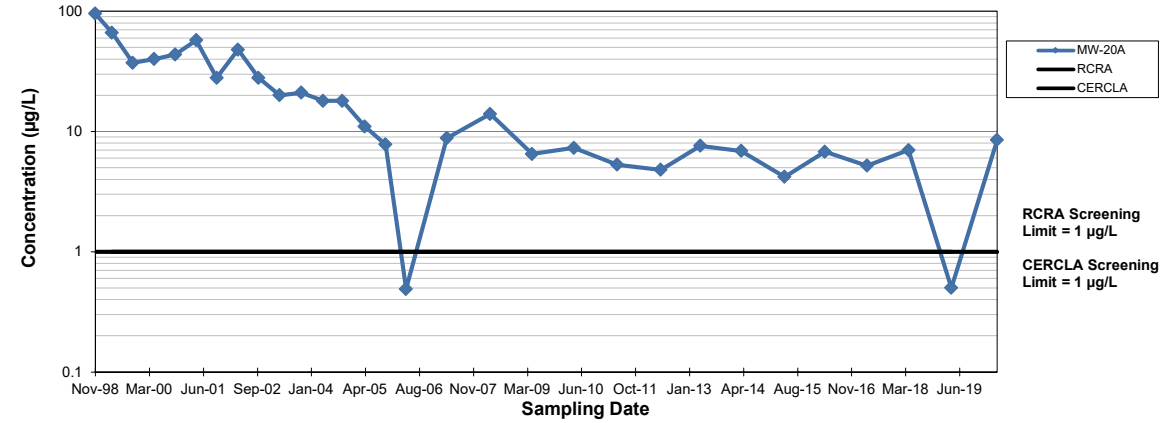
GSI ENVIRONMENTAL

FIGURE G.2
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
PENTACHLOROPHENOL - RCRA CORRECTIVE ACTION MONITORING

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Date Analyzed: 10 February 2021
Facility: Solutia, Anniston
Constituent: Pentachlorophenol
Concentration Units: µg/L

Well Identification:		MW-20A						
Sampling Event	Date	PENTACHLOROPHENOL CONCENTRATION (µg/L)						
1	Nov-98	95.4						
2	Apr-99	66.3						
3	Oct-99	37.3						
4	Apr-00	40						
5	Oct-00	43.8						
6	Apr-01	57.5						
7	Oct-01	28						
8	Apr-02	48						
9	Oct-02	28						
10	Apr-03	20						
11	Oct-03	21						
12	Apr-04	18						
13	Oct-04	18						
14	Apr-05	11						
15	Oct-05	7.8						
16	Apr-06	0.49						
17	Apr-07	8.8						
18	Apr-08	14						
19	Apr-09	6.5						
20	Apr-10	7.3						
21	Apr-11	5.3						
22	May-12	4.8						
23	Apr-13	7.6						
24	Apr-14	6.9						
25	Apr-15	4.2						
26	Apr-16	6.8						
27	Apr-17	5.2						
28	Apr-18	7						
29	Apr-19	0.5						
30	May-20	8.5						
Coefficient of Variation:		1.06						
Mann-Kendall Statistic (S):		-309						
Confidence Factor:		>99.9%						
Concentration Trend:		Decreasing						



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., 0.0007), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.

GSI ENVIRONMENTAL

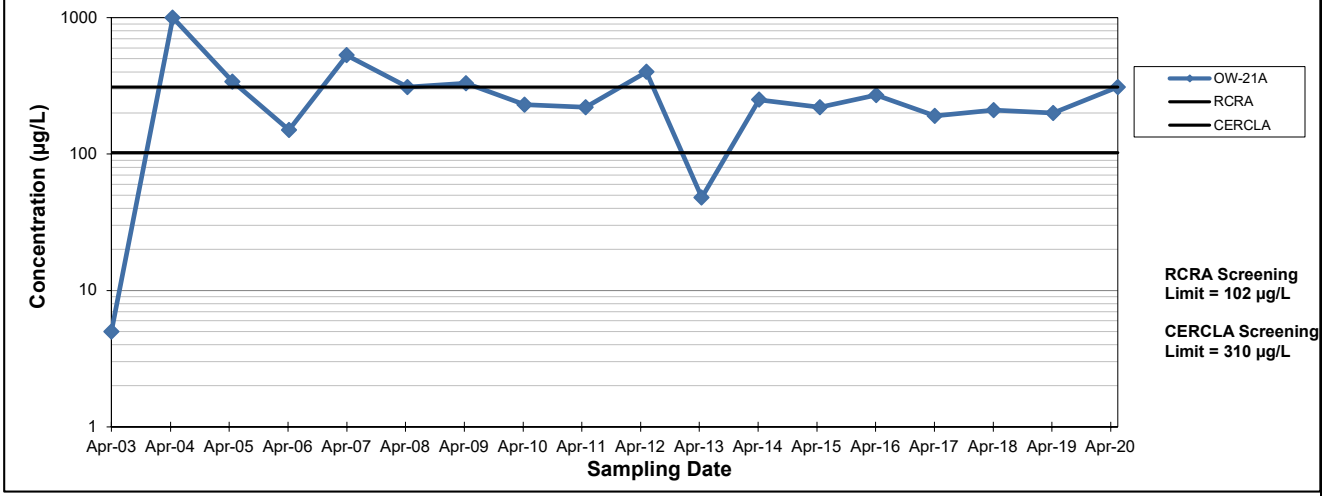
FIGURE G.3
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
O,O,O-TRIETHYLPHOSPHOROTHIOATE - RCRA CORRECTIVE ACTION MONITORING

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Date Analyzed: 10 February 2021
Facility: Solutia, Anniston

Constituent: O,O,O-Triethylphosphorothioate
Concentration Units: µg/L

Well Identification:		OW-21A
Sampling Event	Date	O,O,O-TRIETHYLPHOSPHOROTHIOATE CONCENTRATION (µg/L)
1	Apr-03	5
2	Apr-04	1000
3	Apr-05	340
4	Apr-06	150
5	Apr-07	530
6	Apr-08	310
7	Apr-09	330
8	Apr-10	230
9	Apr-11	220
10	May-12	400
11	Apr-13	48
12	Apr-14	250
13	Apr-15	220
14	Apr-16	270
15	Apr-17	190
16	Apr-18	210
17	Apr-19	200
18	May-20	310
Coefficient of Variation:		0.74
Mann-Kendall Statistic (S):		-31
Confidence Factor:		87.0%
Concentration Trend:		Stable



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.

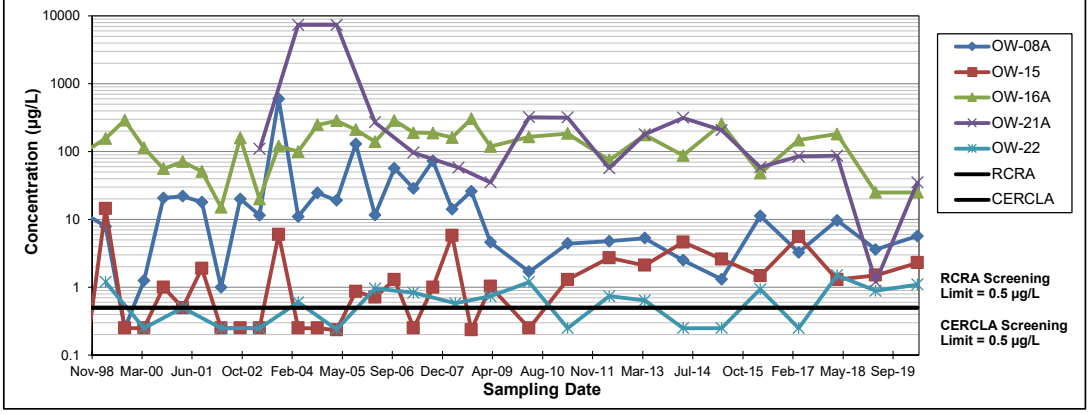
GSI ENVIRONMENTAL

FIGURE G.4
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
TOTAL PCBs - RCRA CORRECTIVE ACTION MONITORING

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Date Analyzed: 10 February 2021
Facility: Solutia, Anniston
Constituent: Total PCBs
Concentration Units: µg/L

Well Identification:		OW-08A	OW-15	OW-16A	OW-21A	OW-22		
Sampling Event	Date	TOTAL PCBS CONCENTRATION (µg/L)						
1	Nov-98	11	0.25	110	-	-		
2	Apr-99	7.9	14.5	155.8	-	1.2		
3	Oct-99	0.25	0.25	290	-	-		
4	Apr-00	1.25	0.25	114	-	0		
5	Oct-00	20.67	1	56	-	-		
6	Apr-01	22	0.5	71	-	0.5		
7	Oct-01	18	1.9	51	-	-		
8	Apr-02	1	0.25	15	-	0.25		
9	Oct-02	20	0.25	160	-	-		
10	Apr-03	11.5	0.25	20	110	0.25		
11	Oct-03	600	6	120	-	-		
12	Apr-04	11	0.25	100	7400	0.6		
13	Oct-04	24.6	0.25	248	'-	-		
14	Apr-05	19.1	0.24	285	7400	0.24		
15	Oct-05	130	0.87	210	-	-		
16	Apr-06	11.62	0.71	140	270	0.96		
17	Oct-06	57	1.3	286	-	-		
18	Apr-07	28.6	0.25	190	96.3	0.83		
19	Oct-07	73.2	1	188	-	-		
20	Apr-08	14.18	5.8	161	-	-		
21	May-08	-	-	-	-	0.58		
22	Jun-08	-	-	-	58	-		
23	Oct-08	26	0.24	304	-	-		
24	Apr-09	4.61	1.03	119	35	0.74		
25	Apr-10	1.69	0.25	165.1	322	1.2		
26	Apr-11	4.4	1.3	185	318	0.25		
27	May-12	4.77	2.71	75	57	0.74		
28	Apr-13	5.3	2.1	176	180	0.64		
29	Apr-14	2.5	4.64	88	315	0.25		
30	Apr-15	1.31	2.6	256	207	0.25		
31	Apr-16	11.27	1.47	48	58.62	0.94		
32	Apr-17	3.26	5.57	148	85	0.25		
33	Apr-18	9.71	1.3	182	87	1.5		
34	Apr-19	3.6	1.5	25	1.2	0.89		
35	May-20	5.7	2.3	25	35	1.1		
Coefficient of Variation:		2.96	1.47	0.58	2.48	0.59		
Mann-Kendall Statistic (S):		-75	160	5	-61	42		
Confidence Factor:		87.3%	99.4%	52.5%	98.9%	87.5%		
Concentration Trend:		No Trend	Increasing	No Trend	Decreasing	No Trend		



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., 0.0007), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.

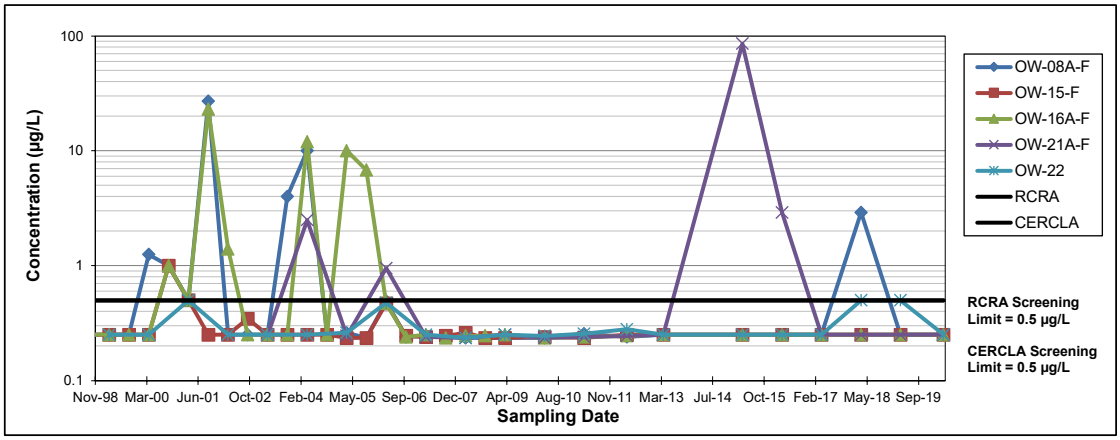
GSI ENVIRONMENTAL

FIGURE G.5
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
TOTAL PCBS - FILTERED - RCRA CORRECTIVE ACTION MONITORING

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Date Analyzed: 10 February 2021 | **Constituent:** Total PCBs - Filtered
Facility: Solutia, Anniston | **Concentration Units:** µg/L

Well Identification:		OW-08A-F	OW-15-F	OW-16A-F	OW-21A-F	OW-22		
Sampling Event	Date	TOTAL PCBS - FILTERED CONCENTRATION (µg/L)						
1	Nov-98	0.25	0.25	0.25	-	-		
2	Apr-99	0.25	0.25	0.25	-	0.25		
3	Oct-99	0.25	0.25	0.25	-	-		
4	Apr-00	1.25	0.25	0.25	-	0		
5	Oct-00	1	1	1	-	-		
6	Apr-01	0.5	0.50	0.50	-	0.5		
7	Oct-01	27	0.25	23	-	-		
8	Apr-02	0.25	0.25	1.4	-	0.25		
9	Oct-02	0.25	0.35	0.25	-	-		
10	Apr-03	0.25	0.25	0.25	0.25	0.25		
11	Oct-03	4	0.25	0.25	-	-		
12	Apr-04	10	0.25	12	2.5	0.25		
13	Oct-04	0.25	0.25	0.25	-	-		
14	Apr-05	0.26	0.24	10	0.25	0.26		
15	Oct-05	0.24	0.24	6.8	-	-		
16	Apr-06	0.49	0.47	0.47	0.95	0.475		
17	Oct-06	0.24	0.25	0.24	-	-		
18	Apr-07	0.25	0.24	0.25	0.24	0.25		
19	Oct-07	0.24	0.25	0.24	-	-		
20	Apr-08	0.24	0.26	0.25	0.24	0.235		
21	Oct-08	0.24	0.24	0.25	-	-		
22	Apr-09	0.24	0.24	0.25	0.25	0.25		
23	Apr-10	0.24	0.24	0.24	0.24	0.245		
24	Apr-11	0.26	0.24	0.24	0.24	0.255		
25	May-12	0.24	0.25	0.25	0.25	0.28		
26	Apr-13	0.25	0.25	0.25	0.25	0.25		
27	Apr-14	-	-	-	-	-		
28	Apr-15	0.25	0.25	0.25	85.8	0.25		
29	Apr-16	0.25	0.25	0.25	2.9	0.25		
30	Apr-17	0.25	0.25	0.25	0.25	0.25		
31	Apr-18	2.9	0.25	0.25	0.25	0.5		
32	Apr-19	0.25	0.25	0.25	0.25	0.5		
33	May-20	0.25	0.25	0.25	0.25	0.25		
Coefficient of Variation:		3.01	0.50	2.50	3.69	0.33		
Mann-Kendall Statistic (S):		-97	-81	-107	16	17		
Confidence Factor:		94.0%	90.2%	95.8%	72.9%	68.4%		
Concentration Trend:		Prob. Decreasing	Prob. Decreasing	Decreasing	No Trend	No Trend		



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.

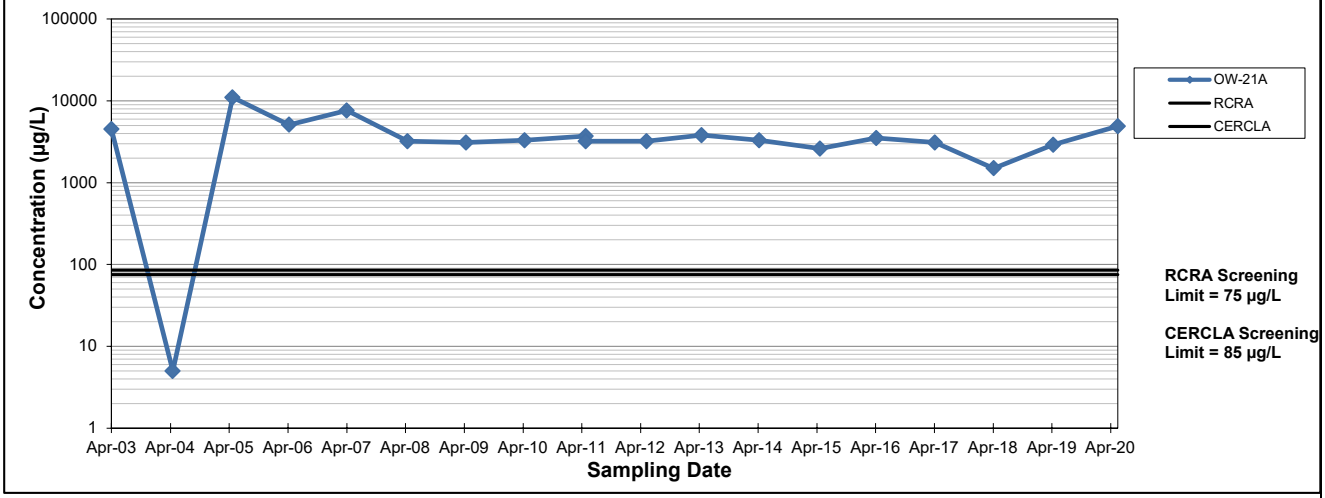
GSI ENVIRONMENTAL

FIGURE G.6
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
PARATHION - RCRA CORRECTIVE ACTION MONITORING

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
RCRA Post-Closure Permit No. ALD 004 019 048

Date Analyzed: 10 February 2021
Facility: Solutia, Anniston
Constituent: Parathion
Concentration Units: µg/L

Well Identification:		OW-21A
Sampling Event	Date	PARATHION CONCENTRATION (µg/L)
1	Apr-03	4500
2	Apr-04	5
3	Apr-05	11000
4	Apr-06	5100
5	Apr-07	7600
6	Apr-08	3200
7	Apr-09	3100
8	Apr-10	3300
9	Apr-11	3700
10	Apr-11	3200
11	May-12	3200
12	Apr-13	3800
13	Apr-14	3300
14	Apr-15	2600
15	Apr-16	3500
16	Apr-17	3100
17	Apr-18	1500
18	Apr-19	2900
14	May-20	4900
Coefficient of Variation:		0.59
Mann-Kendall Statistic (S):		-42
Confidence Factor:		92.3%
Concentration Trend:		Prob. Decreasing



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.

GSI ENVIRONMENTAL

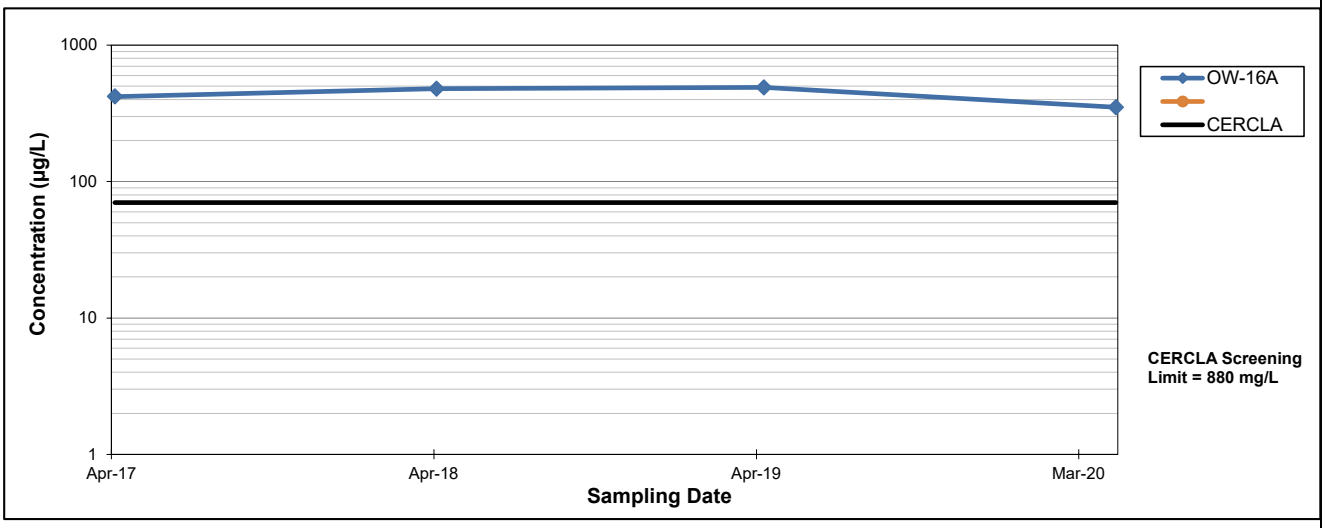
FIGURE G.7
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
1,2,4-TRICHLOROBENZENE - CERCLA REMEDIAL ACTION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Date Analyzed: 10 February 2021
Facility: Solutia, Anniston

Constituent: 1,2,4-Trichlorobenzene
Concentration Units: µg/L

Well Identification:		OW-16A						
Sampling Event	Date	1,2,4-TRICHLOROBENZENE CONCENTRATION (µg/L)						
1	Apr-17	420						
2	Apr-18	480						
3	Apr-19	490						
4	May-20	350						
Coefficient of Variation:		0.15						
Mann-Kendall Statistic (S):		0						
Confidence Factor:		37.5%						
Concentration Trend:		Stable						



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.

GSI ENVIRONMENTAL

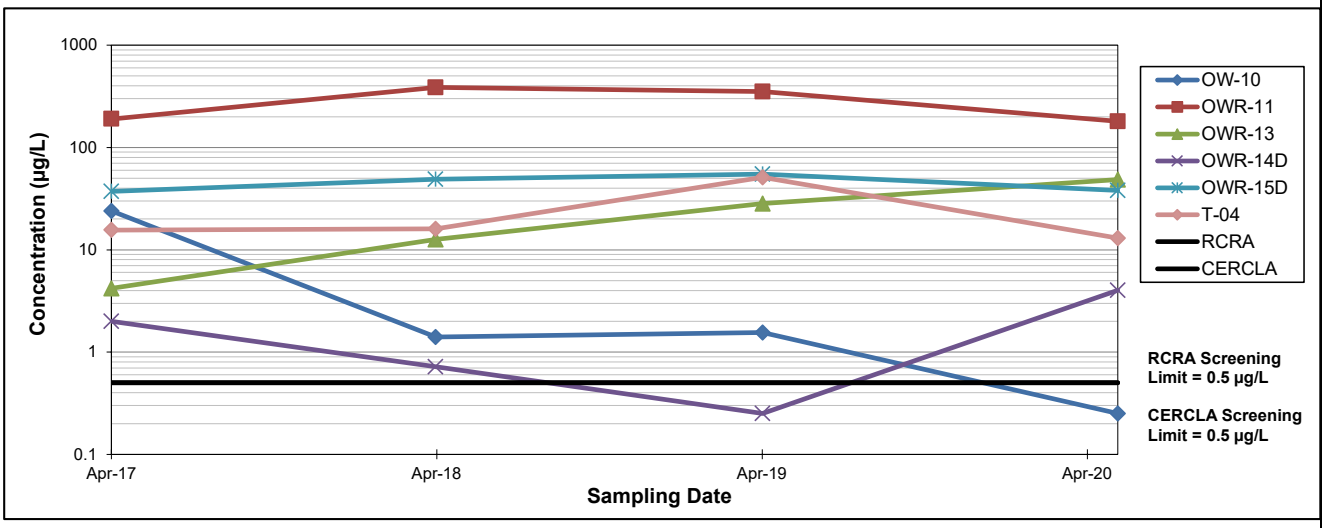
FIGURE G.8(A)
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
TOTAL PCB AROCLORS - CERCLA REMEDIAL ACTION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
RCRA Post-Closure Permit No. ALD 004 019 048

Date Analyzed: 10 February 2021
Facility: Solutia, Anniston

Constituent: Total PCB Aroclors
Concentration Units: µg/L

Well Identification:		OW-10	OWR-11	OWR-13	OWR-14D	OWR-15D	T-04	T-06
Sampling Event	Date	TOTAL PCB AROCLORS CONCENTRATION (µg/L)						
1	Apr-17	24	190	4.2	2	37.1	15.6	0.63
2	Apr-18	1.4	384.7	12.62	0.72	49	16	6.7
3	Apr-19	1.55	351.8	28.3	0.25	55	51	2.73
4	May-20	0.25	180	48.4	4	38	13	3.1
Coefficient of Variation:		1.69	0.39	0.83	0.96	0.19	0.76	0.77
Mann-Kendall Statistic (S):		-4	-2	6	0	2	0	2
Confidence Factor:		83.3%	62.5%	95.8%	37.5%	62.5%	37.5%	62.5%
Concentration Trend:		No Trend	Stable	Increasing	Stable	No Trend	Stable	No Trend



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.

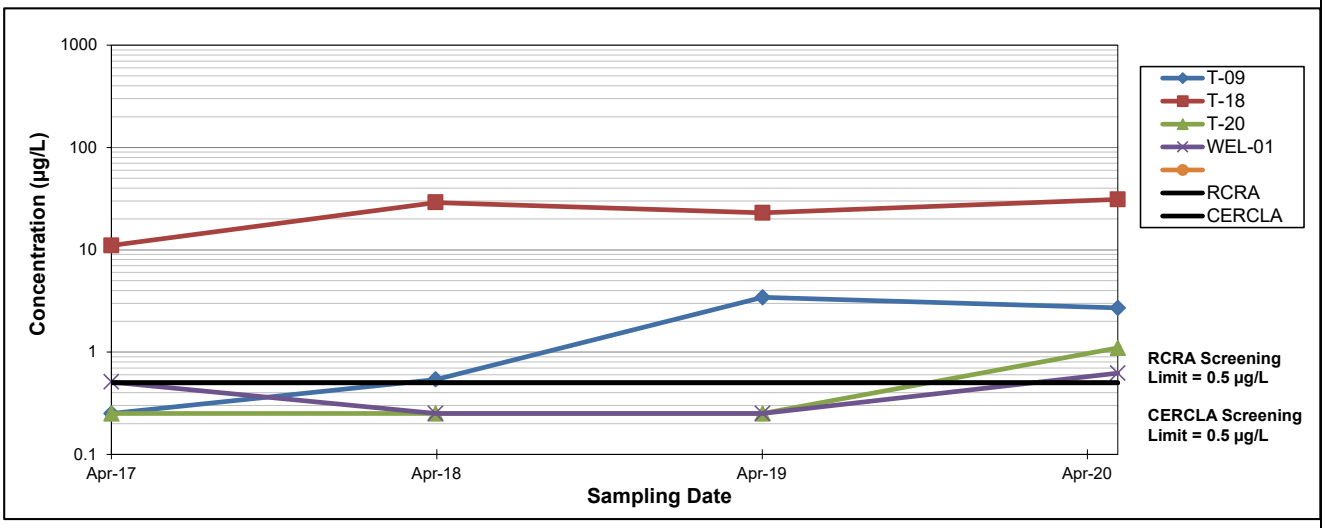
GSI ENVIRONMENTAL

FIGURE G.8(B)
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
TOTAL PCB AROCLORS - CERCLA REMEDIAL ACTION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
RCRA Post-Closure Permit No. ALD 004 019 048

Date Analyzed:	**10 February 2021**	**Constituent:**	**Total PCB Aroclors**
Facility:	**Solutia, Anniston**	**Concentration Units:**	**µg/L**

Well Identification:		T-09	T-18	T-20	WEL-01			
Sampling Event	Date	TOTAL PCB AROCLORS CONCENTRATION (µg/L)						
1	Apr-17	0.25	11	0.25	0.51			
2	Apr-18	0.54	29	0.25	0.25			
3	Apr-19	3.43	23	0.25	0.25			
4	May-20	2.7	31	1.1	0.62			
Coefficient of Variation:		0.91	0.38	0.92	0.46			
Mann-Kendall Statistic (S):		4	4	3	1			
Confidence Factor:		83.3%	83.3%	72.9%	50.0%			
Concentration Trend:		No Trend	No Trend	No Trend	No Trend			



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.

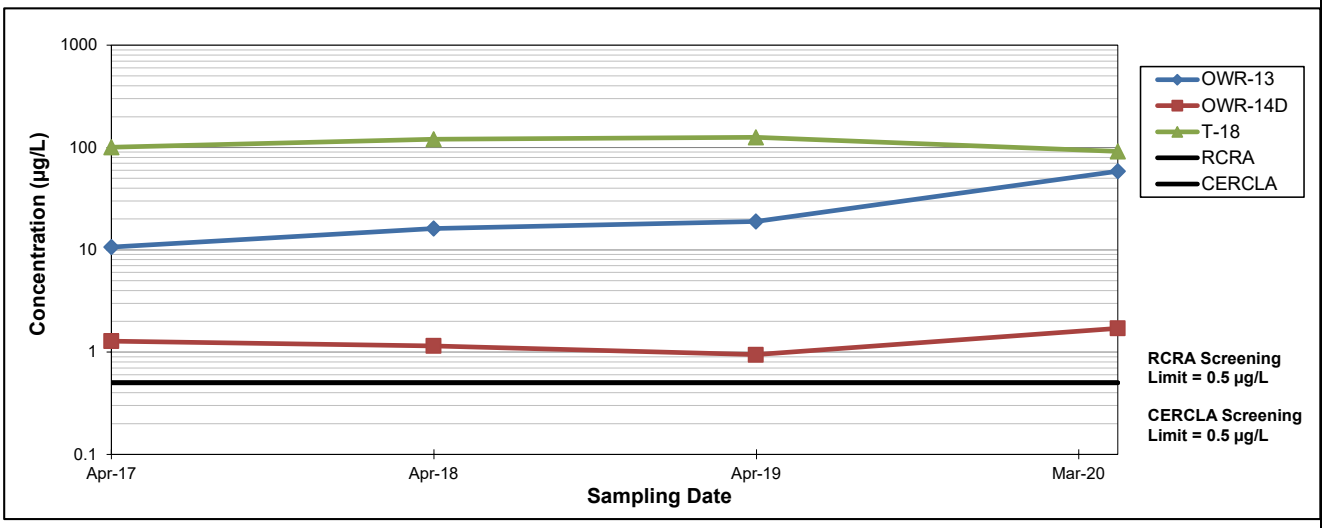
GSI ENVIRONMENTAL

FIGURE G.9
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
TOTAL PCB HOMOLOGS - CERCLA REMEDIAL ACTION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
RCRA Post-Closure Permit No. ALD 004 019 048

Date Analyzed:	**10 February 2021**	**Constituent:**	**Total PCB Homologs**
Facility:	**Solutia, Anniston**	**Concentration Units:**	**µg/L**

Well Identification:		**OWR-13**	**OWR-14D**	**T-18**				
Sampling Event	**Date**	**TOTAL PCB HOMOLOGS CONCENTRATION (µg/L)**						
1	Apr-17	10.59	1.28	100.7				
2	Apr-18	16.17	1.15	120.1				
3	Apr-19	18.91	0.94	125.4				
4	May-20	58.52	1.7	91.4				
Coefficient of Variation:		**0.84**	**0.25**	**0.15**				
Mann-Kendall Statistic (S):		**6**	**0**	**0**				
Confidence Factor:		**95.8%**	**37.5%**	**37.5%**				
Concentration Trend:		**Increasing**	**Stable**	**Stable**				



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.

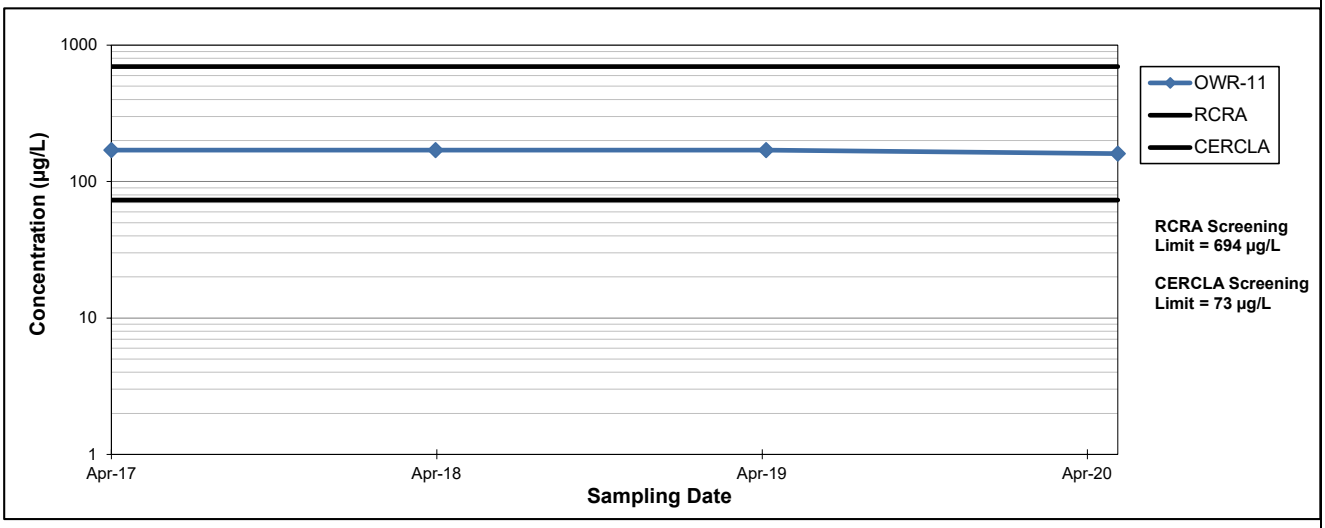
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FIGURE G.10
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
COBALT

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
RCRA Post-Closure Permit No. ALD 004 019 048

Date Analyzed:	**10 February 2021**	**Constituent:**	**Cobalt**
Facility:	**Solutia, Anniston**	**Concentration Units:**	**µg/L**

Well Identification:	**OWR-11**						
Sampling Event	**Date**	**COBALT CONCENTRATION (µg/L)**						
1	Apr-17	170						
2	Apr-18	170						
3	Apr-19	170						
4	May-20	160						
Coefficient of Variation:		**0.03**						
Mann-Kendall Statistic (S):		**-3**						
Confidence Factor:		**72.9%**						
Concentration Trend:		**Stable**						



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.

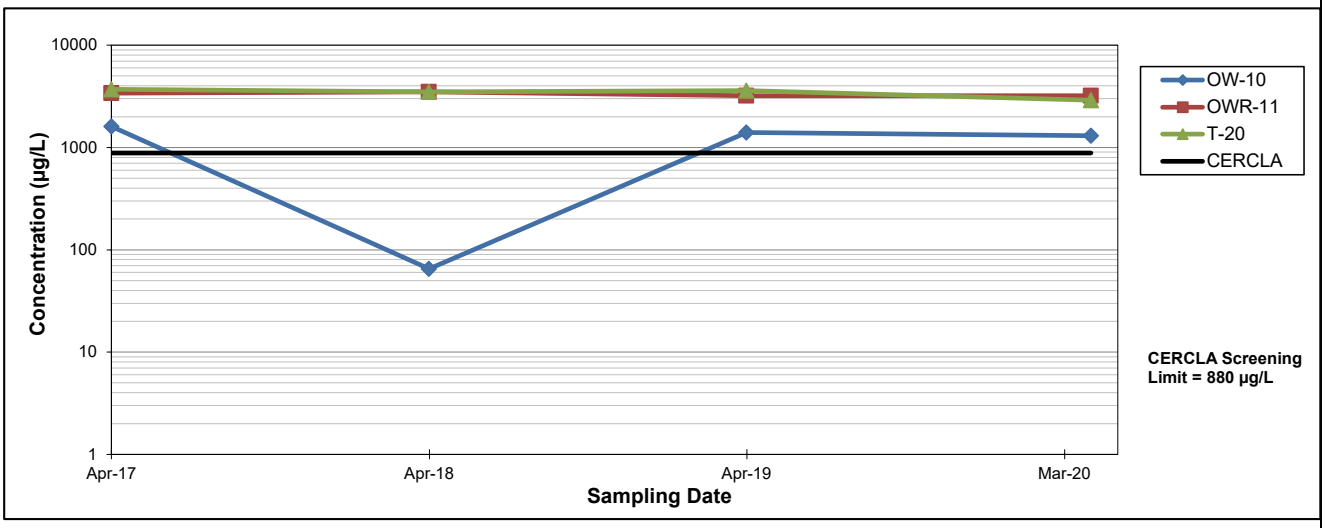
GSI ENVIRONMENTAL

FIGURE G.11
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
MANGANESE

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
RCRA Post-Closure Permit No. ALD 004 019 048

Date Analyzed:	**10 February 2021**	**Constituent:**	**Manganese**
Facility:	**Solutia, Anniston**	**Concentration Units:**	**µg/L**

Well Identification:		**OW-10**	**OWR-11**	**T-20**				
Sampling Event	**Date**	**MANGANESE CONCENTRATION (µg/L)**						
1	Apr-17	1600	3400	3700				
2	Apr-18	65	3500	3500				
3	Apr-19	1400	3200	3600				
4	May-20	1300	3200	2900				
Coefficient of Variation:		**0.64**	**0.05**	**0.10**				
Mann-Kendall Statistic (S):		**-2**	**-3**	**-4**				
Confidence Factor:		**62.5%**	**72.9%**	**83.3%**				
Concentration Trend:		**Stable**	**Stable**	**Stable**				



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.

GSI ENVIRONMENTAL

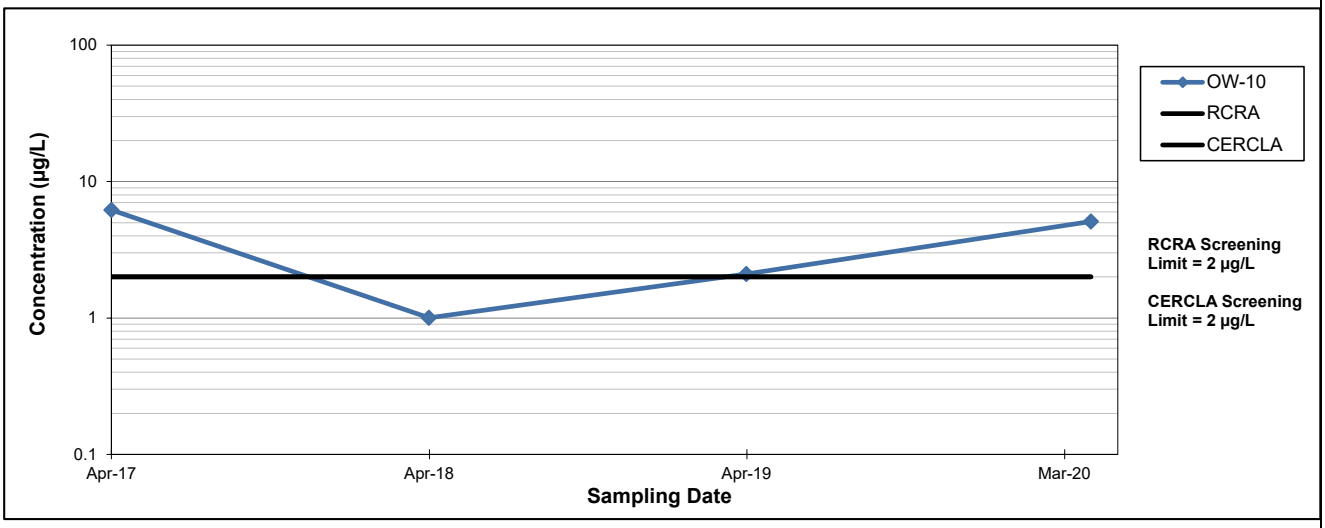
FIGURE G.12
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
MERCURY

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
RCRA Post-Closure Permit No. ALD 004 019 048

Date Analyzed: 10 February 2021
Facility: Solutia, Anniston

Constituent: Mercury
Concentration Units: µg/L

Well Identification:		OW-10						
Sampling Event	Date	MERCURY CONCENTRATION (µg/L)						
1	Apr-17	6.2						
2	Apr-18	1						
3	Apr-19	2.1						
4	May-20	5.1						
Coefficient of Variation:		0.68						
Mann-Kendall Statistic (S):		0						
Confidence Factor:		37.5%						
Concentration Trend:		Stable						



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.

GSI Job No. 5739

2020 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia, Inc., Anniston, Alabama
RCRA Post-Closure Permit ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX H: LABORATORY REPORTS

MAY 2020 LABORATORY REPORTS

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QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: RCRA Groundwater Monitoring Project Number: 680-183870-1
Reviewer: Ben Smith Validation Date: 23 November 2020

Laboratory: Eurofins TestAmerica Savannah SDG #: ANST183870
Analytical Method (type and no.): VOCs (8260B), SVOCS (8270D), PCBs (8081B/8082A), Pesticides (8141B)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: MW-15, MW-16, OW-15, MW-20A, OW-16A, FIELD DUPLICATE 1, Trip Blank, MW-15 F, MW-16 F, OW-15 F, OW-16A F, MW-20A F, MW-20A MS, MW-20A MSD

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	**YES**	**NO**	**NA**	**COMMENTS**
a) Sampling dates noted?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted? (@ MW-20A), and Trip Blank collected.	☒	☐	☐	FIELD DUPLICATE 1 (@MW-20A), MS/MSD
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Turbidimeter calibrated marginally low for 0-10 NTU range on 5/13/20. Purging logs indicate adequate stabilization of all parameters, including turbidity. Turbidity in MW-15, MW-16, and OW-16A may be biased low, but no analytical data are qualified on this basis.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	
Note Deficiencies:				

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☐	☒	☐	Contingent 8270D SIM was not requested for Pentachlorophenol (PCP) pending non-detect PCP results from standard 8270D, but lab was later instructed to do so. Results for 8270D SIM for PCP were sent under report 680-183870-2.
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☐	☒	☐	The instrument was not calibrated to the specified reporting limit (1 ug/L) for 1,2-Dichlorobenzene and 1,4-Dichlorobenzene. Reporting limits for OW-16A for methods 8260B and 8141B were elevated due to dilutions.
f) Were any sample dilutions noted?	☒	☐	☐	Yes, in OW-16A for methods 8260B, 8141B, and 8081B/8082A.
g) Were any matrix problems noted?	☒	☐	☐	Dilution of OW-16A for method 8141B was due to the "nature of the matrix" but no qualification is necessary.

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☒	☐	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				Original – MW-20A
	☒	☐	☐	Duplicate – FIELD DUPLICATE 1
b) Were field dup. precision criteria met (note RPD)?	☐	☒	☐	MW-20A: 1,2-DCB = 36.7% (above precision criteria = 35%), 1.4-DCB = 15.4%, Chlorobenzene = 14.0%, O,O,O-Triethylphosphorothioate = 33.7%
c) Were lab duplicates analyzed (note original and duplicate samples)?				Multiple LCSDs. All RPDs ≤ 4%
	☒	☐	☐	
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☒	☐	☐	

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☒	☐	DCB recovery was 12% in OW-16A F and 10% in MW-20A F.
b) Were surrogate recoveries not calculated due to dilutions?	☐	☐	☒	

Comments/Notes:
Detections of 1,2-DCB and 1,4-DCB in MW-20A, FIELD DUPLICATE 1, and OW-16A between the MDL and the PQL (10 ug/L) should be qualified as estimated (J) since the instrument was not calibrated to the proper RL. The detections of 1,2-Dichlorobenzene in MW-20A and FIELD DUPLICATE 1 are also qualified since the RPD between them is greater than 35%. All non-detect Aroclor results in OW-16A F and MW-20A F should be qualified as UJ since the DCB surrogate recovery is 10 ≤ Recovery ≤ QC Limit in both samples.

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
MW-20A	1,2-DCB	2 ug/L	J	Detection between MDL & PQL; also, RPD between original and duplicate >35%.
MW-20A	1,4-DCB	1.2 ug/L	J	Detection between MDL & PQL
FIELD DUPLICATE 1	1,2-DCB	2.9 ug/L	J	Detection between MDL & PQL; also, RPD between original and duplicate >35%.
FIELD DUPLICATE 1	1,4-DCB	1.4 ug/L	J	Detection between MDL & PQL
OW-16A	1,2-DCB	1.7 ug/L	J	Detection between MDL & PQL
OW-16A	1,4-DCB	1.1 ug/L	J	Detection between MDL & PQL
OW-16A F	PCB-1016, Dissolved	<0.5 ug/L	UJ	Low DCB recovery
OW-16A F	PCB-1221, Dissolved	<0.5 ug/L	UJ	Low DCB recovery
OW-16A F	PCB-1232, Dissolved	<0.5 ug/L	UJ	Low DCB recovery
OW-16A F	PCB-1242, Dissolved	<0.5 ug/L	UJ	Low DCB recovery
OW-16A F	PCB-1248, Dissolved	<0.5 ug/L	UJ	Low DCB recovery
OW-16A F	PCB-1254, Dissolved	<0.5 ug/L	UJ	Low DCB recovery
OW-16A F	PCB-1260, Dissolved	<0.5 ug/L	UJ	Low DCB recovery
OW-16A F	PCB-1268, Dissolved	<0.5 ug/L	UJ	Low DCB recovery
MW-20A F	PCB-1016, Dissolved	<0.5 ug/L	UJ	Low DCB recovery

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

MW-20A F	PCB-1221, Dissolved	<0.5 ug/L	UJ	Low DCB recovery
MW-20A F	PCB-1232, Dissolved	<0.5 ug/L	UJ	Low DCB recovery
MW-20A F	PCB-1242, Dissolved	<0.5 ug/L	UJ	Low DCB recovery
MW-20A F	PCB-1248, Dissolved	<0.5 ug/L	UJ	Low DCB recovery
MW-20A F	PCB-1254, Dissolved	<0.5 ug/L	UJ	Low DCB recovery
MW-20A F	PCB-1260, Dissolved	<0.5 ug/L	UJ	Low DCB recovery
MW-20A F	PCB-1268, Dissolved	<0.5 ug/L	UJ	Low DCB recovery

Signature: Wade Benjamin Smith Date: 23 November 2020

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: RCRA Groundwater Monitoring Project Number: 680-183870-1
Reviewer: Ben Smith Validation Date: 23 November 2020

Laboratory: Eurofins TestAmerica Savannah SDG #: ANST183870
Analytical Method (type and no.): Metals (6010C), Mercury (7470A)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐
Sample Names: MW-15, MW-16, OW-15, MW-20A, OW-16A, FIELD DUPLICATE 1, MW-15 F, MW-16 F, OW-15 F, OW-16A F MW-20A MS, MW-20A MSD

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	**YES**	**NO**	**NA**	**COMMENTS**
a) Sampling dates noted?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	Field Duplicate 1 (@ MW-20A), MS/MSD (@ MW-20A)
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Turbidimeter calibrated marginally low for 0-10 NTU range on 5/13/20. Purging logs indicate adequate stabilization of all parameters, including turbidity. Turbidity in MW-15, MW-16, and OW-16A may be biased low, but no analytical data are qualified on this basis.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	
Note Deficiencies:				

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

General (reference QAPP or Method)	**YES**	**NO**	**NA**	**COMMENTS**
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☐	☒	☐	
g) Were any matrix problems noted?	☒	☐	☐	See MS/MSD discussion below.

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				Original – MW-20A
	☒	☐	☐	Duplicate – FIELD DUPLICATE 1
b) Were field dup. precision criteria met (note RPD)?	☐	☐	☒	Co and Hg both non-detect
c) Were lab duplicates analyzed (note original and duplicate samples)?				
	☐	☒	☐	
d) Were lab dup. precision criteria met (note RPD)?	☐	☐	☒	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☒	☐	Hg recovery = 73% (QC Limit = 75%)
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☒	☐	Hg recovery = 73% (QC Limit = 75%)
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☒	☐	☐	

Comments/Notes:

Marginally low recovery of Hg in MS/MSD samples from MW-20A. Specific conductance is significantly higher and ORP is significantly lower at MW-20A than at other sampled wells, suggesting these matrix problems are likely restricted to MW-20A. Therefore, non-detects of Hg in MW-20A and FIELD DUPLICATE 1 will be qualified as UJ.

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
MW-20A	Mercury	<0.0002 mg/L	UJ	Low MS and MSD recovery
FIELD DUPLICATE 1	Mercury	<0.0002 mg/L	UJ	Low MS and MSD recovery

Signature: Wade Benjamin Smith Date: 23 November 2020

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-183870-1
Laboratory Sample Delivery Group: ANST183870
Client Project/Site: Anniston RCRA April 2020
Revision: 2

For:
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Attn: Ben Smith

Amy Weinberg

Authorized for release by:
6/16/2020 3:07:59 PM

Amy Weinberg, Project Manager II
(813)885-7427
amy.weinberg@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 680-183870-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

Job Narrative
680-183870-1

Receipt
The samples were received on 5/15/2020 9:20 AM; the samples arrived in good condition, properly preserved, and where required, on ice. The temperatures of the 6 coolers at receipt time were 1.2°C, 1.8°C, 3.0°C, 3.0°C, 3.6°C and 4.9°C

The report was revised on 6/15/2020 to correct qualifiers on data for method 8270.

GC/MS VOA
Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: OW-16A (680-183870-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: Internal standard (ISTD) response for Perylene-d12 for the following MB and LCS were outside acceptance criteria: (LCS 680-619347/22-A) and (MB 680-619347/18-A). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8270D:
The instrument was not calibrated to the reported RL for analytes 1,2-Dichlorobenzene and 1,4-Dichlorobenzene. MW-15 (680-183870-1), MW-16 (680-183870-2), OW-15 (680-183870-3), MW-20A (680-183870-4), OW-16A (680-183870-5) and FIELD DUPLICATE 1 (680-183870-6). The instrument is calibrated to 10 ug/L for both 1,2-Dichlorobenzene and 1,4-Dichlorobenzene. Any detections for 1,2-Dichlorobenzene less than the PQL of 10 ug/L and above the MDL of 0.53 ug/L should be seen as estimated. Any detections of 1,4-Dichlorobenzene less than the PQL of 10 ug/L and above the MDL of 0.54 ug/L should be seen as estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8141B: The following sample was diluted due to the nature of the sample matrix: OW-16A (680-183870-5). Elevated reporting limits (RLs) are provided.8141 preparation batch 280-495492 and analytical batch 280-496581

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Pesticides/PCBs
Method 8081B_8082A: Internal standard (ISTD) response for the following sample exceeded the control limit on Column two: MW-16 (680-183870-2). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

Method 8081B_8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: OW-16A F (680-183870-11) and MW-20A F (680-183870-12). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method 8081B/8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: OW-16A F (680-183870-11) and MW-20A F (680-183870-12). These results have been reported and qualified.

Method 8141B: The following sample was diluted due to the nature of the sample matrix: OW-16A (680-183870-5). Elevated reporting

Job ID: 680-183870-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-1
SDG: ANST183870

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-183870-1	MW-15	Water	05/13/20 10:34	05/15/20 09:20	
680-183870-2	MW-16	Water	05/13/20 13:28	05/15/20 09:20	
680-183870-3	OW-15	Water	05/13/20 16:21	05/15/20 09:20	
680-183870-4	MW-20A	Water	05/13/20 10:21	05/15/20 09:20	
680-183870-5	OW-16A	Water	05/13/20 16:29	05/15/20 09:20	
680-183870-6	FIELD DUPLICATE 1	Water	05/13/20 00:00	05/15/20 09:20	
680-183870-7	Trip Blank	Water	05/13/20 00:00	05/15/20 09:20	
680-183870-8	MW-15 F	Water	05/13/20 10:34	05/15/20 09:20	
680-183870-9	MW-16 F	Water	05/13/20 13:28	05/15/20 09:20	
680-183870-10	OW-15 F	Water	05/13/20 16:21	05/15/20 09:20	
680-183870-11	OW-16A F	Water	05/13/20 16:29	05/15/20 09:20	
680-183870-12	MW-20A F	Water	05/13/20 10:21	05/15/20 09:20	

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-1
SDG: ANST183870

Client Sample ID: MW-15 — Lab Sample ID: 680-183870-1

No Detections.

Client Sample ID: MW-16 — Lab Sample ID: 680-183870-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Nitrophenol	65		25	1.8	ug/L	1		8270D	Total/NA
o,o',o''-Triethylphosphorothioate	47		10	0.96	ug/L	1		8270D	Total/NA
Mercury	0.00026		0.00020	0.000080	mg/L	1		7470A	Total/NA

Client Sample ID: OW-15 — Lab Sample ID: 680-183870-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1221	2.3		0.50	0.091	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: MW-20A — Lab Sample ID: 680-183870-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	2.3		1.0	0.26	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	2.0	J	1.0	0.52	ug/L	1		8270D	Total/NA
1,4-Dichlorobenzene	1.2	J	1.0	0.53	ug/L	1		8270D	Total/NA
o,o',o''-Triethylphosphorothioate	37		10	0.98	ug/L	1		8270D	Total/NA

Client Sample ID: OW-16A — Lab Sample ID: 680-183870-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	350		13	13	ug/L	5		8260B	Total/NA
1,2-Dichlorobenzene	1.7	J	1.0	0.51	ug/L	1		8270D	Total/NA
1,4-Dichlorobenzene	1.1	J	1.0	0.51	ug/L	1		8270D	Total/NA
PCB-1221	3.7		0.50	0.091	ug/L	1		8081B/8082A	Total/NA
PCB-1248	13		0.50	0.50	ug/L	5		8081B/8082A	Total/NA
PCB-1254	8.3		0.50	0.26	ug/L	5		8081B/8082A	Total/NA
Parathion	23		1.4	1.4	ug/L	10		8141B	Total/NA
Cobalt	0.041		0.010	0.0010	mg/L	1		6010C	Total Recoverable
Manganese	0.85		0.010	0.0010	mg/L	1		6010C	Total Recoverable

Client Sample ID: FIELD DUPLICATE 1 — Lab Sample ID: 680-183870-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	2.0		1.0	0.26	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	2.9	J	1.0	0.50	ug/L	1		8270D	Total/NA
1,4-Dichlorobenzene	1.4	J	1.0	0.51	ug/L	1		8270D	Total/NA
o,o',o''-Triethylphosphorothioate	52		10	0.95	ug/L	1		8270D	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 680-183870-7

No Detections.

Client Sample ID: MW-15 F — Lab Sample ID: 680-183870-8

No Detections.

Client Sample ID: MW-16 F — Lab Sample ID: 680-183870-9

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-1
SDG: ANST183870

Client Sample ID: OW-15 F — Lab Sample ID: 680-183870-10

No Detections.

Client Sample ID: OW-16A F — Lab Sample ID: 680-183870-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt, Dissolved	0.041		0.010	0.0010	mg/L	1		6010C	Dissolved
Manganese, Dissolved	0.85		0.010	0.0010	mg/L	1		6010C	Dissolved

Client Sample ID: MW-20A F — Lab Sample ID: 680-183870-12

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-15

Date Collected: 05/13/20 10:34
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/22/20 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*113*		*80 - 120*		*05/22/20 03:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*		*05/22/20 03:51*	*1*
Dibromofluoromethane (Surr)	*120*		*80 - 122*		*05/22/20 03:51*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/22/20 03:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.51	ug/L		05/20/20 16:09	05/26/20 19:42	1
1,4-Dichlorobenzene	<1.0		1.0	0.52	ug/L		05/20/20 16:09	05/26/20 19:42	1
4-Nitrophenol	<25		25	1.8	ug/L		05/20/20 16:09	05/26/20 19:42	1
o,o',o''-Triethylphosphorothioate	<10		10	0.97	ug/L		05/20/20 16:09	05/26/20 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*32 - 113*	*05/20/20 16:09*	*05/26/20 19:42*	*1*
2-Fluorophenol	*58*		*26 - 109*	*05/20/20 16:09*	*05/26/20 19:42*	*1*
Nitrobenzene-d5	*64*		*32 - 118*	*05/20/20 16:09*	*05/26/20 19:42*	*1*
Phenol-d5	*60*		*27 - 110*	*05/20/20 16:09*	*05/26/20 19:42*	*1*
Terphenyl-d14	*96*		*10 - 126*	*05/20/20 16:09*	*05/26/20 19:42*	*1*
2,4,6-Tribromophenol	*79*		*39 - 124*	*05/20/20 16:09*	*05/26/20 19:42*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		05/19/20 15:11	05/20/20 22:26	1
PCB-1221	<0.50		0.50	0.091	ug/L		05/19/20 15:11	05/20/20 22:26	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/20/20 22:26	1
PCB-1242	<0.50		0.50	0.091	ug/L		05/19/20 15:11	05/20/20 22:26	1
PCB-1248	<0.50		0.50	0.10	ug/L		05/19/20 15:11	05/20/20 22:26	1
PCB-1254	<0.50		0.50	0.053	ug/L		05/19/20 15:11	05/20/20 22:26	1
PCB-1260	<0.50		0.50	0.058	ug/L		05/19/20 15:11	05/20/20 22:26	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/20/20 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*14 - 130*	*05/19/20 15:11*	*05/20/20 22:26*	*1*
Tetrachloro-m-xylene	*70*		*40 - 130*	*05/19/20 15:11*	*05/20/20 22:26*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/19/20 19:38	05/27/20 11:47	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.16	ug/L		05/19/20 19:38	05/27/20 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*96*		*60 - 154*	*05/19/20 19:38*	*05/27/20 11:47*	*1*
Chlormefos	*77*		*49 - 171*	*05/19/20 19:38*	*05/27/20 11:47*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		05/18/20 13:57	05/19/20 23:48	1

Client Sample ID: MW-15

Date Collected: 05/13/20 10:34
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-1

Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 20:59	1

Client Sample ID: MW-16

Date Collected: 05/13/20 13:28
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/22/20 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*116*		*80 - 120*		*05/22/20 04:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*		*05/22/20 04:15*	*1*
Dibromofluoromethane (Surr)	*120*		*80 - 122*		*05/22/20 04:15*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/22/20 04:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.51	ug/L		05/20/20 16:09	05/26/20 20:04	1
1,4-Dichlorobenzene	<1.0		1.0	0.52	ug/L		05/20/20 16:09	05/26/20 20:04	1
4-Nitrophenol	**65**		25	1.8	ug/L		05/20/20 16:09	05/26/20 20:04	1
o,o',o"-Triethylphosphorothioate	**47**		10	0.96	ug/L		05/20/20 16:09	05/26/20 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*32 - 113*	*05/20/20 16:09*	*05/26/20 20:04*	*1*
2-Fluorophenol	*28*		*26 - 109*	*05/20/20 16:09*	*05/26/20 20:04*	*1*
Nitrobenzene-d5	*57*		*32 - 118*	*05/20/20 16:09*	*05/26/20 20:04*	*1*
Phenol-d5	*39*		*27 - 110*	*05/20/20 16:09*	*05/26/20 20:04*	*1*
Terphenyl-d14	*88*		*10 - 126*	*05/20/20 16:09*	*05/26/20 20:04*	*1*
2,4,6-Tribromophenol	*88*		*39 - 124*	*05/20/20 16:09*	*05/26/20 20:04*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		05/19/20 15:11	05/20/20 22:41	1
PCB-1221	<0.50		0.50	0.092	ug/L		05/19/20 15:11	05/20/20 22:41	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/20/20 22:41	1
PCB-1242	<0.50		0.50	0.092	ug/L		05/19/20 15:11	05/20/20 22:41	1
PCB-1248	<0.50		0.50	0.10	ug/L		05/19/20 15:11	05/20/20 22:41	1
PCB-1254	<0.50		0.50	0.053	ug/L		05/19/20 15:11	05/20/20 22:41	1
PCB-1260	<0.50		0.50	0.058	ug/L		05/19/20 15:11	05/20/20 22:41	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/20/20 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*46*		*14 - 130*	*05/19/20 15:11*	*05/20/20 22:41*	*1*
Tetrachloro-m-xylene	*45*		*40 - 130*	*05/19/20 15:11*	*05/20/20 22:41*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/19/20 19:38	05/27/20 12:26	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.16	ug/L		05/19/20 19:38	05/27/20 12:26	1

Client Sample ID: MW-16

Date Collected: 05/13/20 13:28
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*85*		*60 - 154*	*05/19/20 19:38*	*05/27/20 12:26*	*1*
Chlormefos	*53*		*49 - 171*	*05/19/20 19:38*	*05/27/20 12:26*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		05/18/20 13:57	05/19/20 23:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00026**		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 21:04	1

Client Sample ID: OW-15

Date Collected: 05/13/20 16:21
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/22/20 04:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*111*		*80 - 120*		*05/22/20 04:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*		*05/22/20 04:38*	*1*
Dibromofluoromethane (Surr)	*118*		*80 - 122*		*05/22/20 04:38*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/22/20 04:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.50	ug/L		05/20/20 16:09	05/26/20 20:27	1
1,4-Dichlorobenzene	<1.0		1.0	0.51	ug/L		05/20/20 16:09	05/26/20 20:27	1
4-Nitrophenol	<25		25	1.8	ug/L		05/20/20 16:09	05/26/20 20:27	1
o,o',o''-Triethylphosphorothioate	<10		10	0.95	ug/L		05/20/20 16:09	05/26/20 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*66*		*32 - 113*	*05/20/20 16:09*	*05/26/20 20:27*	*1*
2-Fluorophenol	*56*		*26 - 109*	*05/20/20 16:09*	*05/26/20 20:27*	*1*
Nitrobenzene-d5	*62*		*32 - 118*	*05/20/20 16:09*	*05/26/20 20:27*	*1*
Phenol-d5	*60*		*27 - 110*	*05/20/20 16:09*	*05/26/20 20:27*	*1*
Terphenyl-d14	*104*		*10 - 126*	*05/20/20 16:09*	*05/26/20 20:27*	*1*
2,4,6-Tribromophenol	*85*		*39 - 124*	*05/20/20 16:09*	*05/26/20 20:27*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		05/19/20 15:11	05/20/20 22:55	1
PCB-1221	**2.3**		0.50	0.091	ug/L		05/19/20 15:11	05/20/20 22:55	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/20/20 22:55	1
PCB-1242	<0.50		0.50	0.091	ug/L		05/19/20 15:11	05/20/20 22:55	1
PCB-1248	<0.50		0.50	0.10	ug/L		05/19/20 15:11	05/20/20 22:55	1
PCB-1254	<0.50		0.50	0.053	ug/L		05/19/20 15:11	05/20/20 22:55	1
PCB-1260	<0.50		0.50	0.057	ug/L		05/19/20 15:11	05/20/20 22:55	1
PCB-1268	<0.50		0.50	0.11	ug/L		05/19/20 15:11	05/20/20 22:55	1

Client Sample ID: OW-15

Date Collected: 05/13/20 16:21
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*30*		*14 - 130*	*05/19/20 15:11*	*05/20/20 22:55*	*1*
Tetrachloro-m-xylene	*66*		*40 - 130*	*05/19/20 15:11*	*05/20/20 22:55*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/19/20 19:38	05/27/20 13:06	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.16	ug/L		05/19/20 19:38	05/27/20 13:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*90*		*60 - 154*	*05/19/20 19:38*	*05/27/20 13:06*	*1*
Chlormefos	*64*		*49 - 171*	*05/19/20 19:38*	*05/27/20 13:06*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		05/21/20 13:38	05/22/20 20:37	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 22:05	1

Client Sample ID: MW-20A

Date Collected: 05/13/20 10:21
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**2.3**		1.0	0.26	ug/L			05/21/20 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/21/20 20:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*73 - 131*		*05/21/20 20:22*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 122*		*05/21/20 20:22*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*05/21/20 20:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	**2.0**	**J**	1.0	0.52	ug/L		05/20/20 16:09	05/26/20 20:49	1
1,4-Dichlorobenzene	**1.2**	**J**	1.0	0.53	ug/L		05/20/20 16:09	05/26/20 20:49	1
4-Nitrophenol	<25		25	1.9	ug/L		05/20/20 16:09	05/26/20 20:49	1
o,o',o"-Triethylphosphorothioate	**37**		10	0.98	ug/L		05/20/20 16:09	05/26/20 20:49	1
Pentachlorophenol	<50		50	2.0	ug/L		05/20/20 16:09	05/26/20 20:49	1
2,4,6-Trichlorophenol	<10		10	0.83	ug/L		05/20/20 16:09	05/26/20 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*32 - 113*	*05/20/20 16:09*	*05/26/20 20:49*	*1*
2-Fluorophenol	*38*		*26 - 109*	*05/20/20 16:09*	*05/26/20 20:49*	*1*
Nitrobenzene-d5	*46*		*32 - 118*	*05/20/20 16:09*	*05/26/20 20:49*	*1*
Phenol-d5	*40*		*27 - 110*	*05/20/20 16:09*	*05/26/20 20:49*	*1*
Terphenyl-d14	*49*		*10 - 126*	*05/20/20 16:09*	*05/26/20 20:49*	*1*
2,4,6-Tribromophenol	*74*		*39 - 124*	*05/20/20 16:09*	*05/26/20 20:49*	*1*

Client Sample ID: MW-20A

Date Collected: 05/13/20 10:21
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-4

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		05/19/20 15:11	05/20/20 23:09	1
PCB-1221	<0.50		0.50	0.092	ug/L		05/19/20 15:11	05/20/20 23:09	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/20/20 23:09	1
PCB-1242	<0.50		0.50	0.092	ug/L		05/19/20 15:11	05/20/20 23:09	1
PCB-1248	<0.50		0.50	0.10	ug/L		05/19/20 15:11	05/20/20 23:09	1
PCB-1254	<0.50		0.50	0.053	ug/L		05/19/20 15:11	05/20/20 23:09	1
PCB-1260	<0.50		0.50	0.058	ug/L		05/19/20 15:11	05/20/20 23:09	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/20/20 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*37*		*14 - 130*	*05/19/20 15:11*	*05/20/20 23:09*	*1*
Tetrachloro-m-xylene	*73*		*40 - 130*	*05/19/20 15:11*	*05/20/20 23:09*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/19/20 19:38	05/27/20 13:45	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.16	ug/L		05/19/20 19:38	05/27/20 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*63*		*60 - 154*	*05/19/20 19:38*	*05/27/20 13:45*	*1*
Chlormefos	*52*		*49 - 171*	*05/19/20 19:38*	*05/27/20 13:45*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		05/18/20 13:57	05/19/20 23:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	F1	0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 20:29	1

Client Sample ID: OW-16A

Date Collected: 05/13/20 16:29
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.3		1.3	1.3	ug/L			05/21/20 20:52	5
1,2,4-Trichlorobenzene	**350**		13	13	ug/L			05/21/20 20:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*05/21/20 20:52*	*5*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*05/21/20 20:52*	*5*
Dibromofluoromethane (Surr)	*120*		*80 - 122*		*05/21/20 20:52*	*5*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/21/20 20:52*	*5*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	**1.7**	**J**	1.0	0.51	ug/L		05/20/20 16:09	05/26/20 21:11	1
1,4-Dichlorobenzene	**1.1**	**J**	1.0	0.51	ug/L		05/20/20 16:09	05/26/20 21:11	1
4-Nitrophenol	<25		25	1.8	ug/L		05/20/20 16:09	05/26/20 21:11	1
o,o',o''-Triethylphosphorothioate	<10		10	0.95	ug/L		05/20/20 16:09	05/26/20 21:11	1

Client Sample ID: OW-16A

Date Collected: 05/13/20 16:29
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*32 - 113*	*05/20/20 16:09*	*05/26/20 21:11*	*1*
2-Fluorophenol	*56*		*26 - 109*	*05/20/20 16:09*	*05/26/20 21:11*	*1*
Nitrobenzene-d5	*62*		*32 - 118*	*05/20/20 16:09*	*05/26/20 21:11*	*1*
Phenol-d5	*57*		*27 - 110*	*05/20/20 16:09*	*05/26/20 21:11*	*1*
Terphenyl-d14	*81*		*10 - 126*	*05/20/20 16:09*	*05/26/20 21:11*	*1*
2,4,6-Tribromophenol	*91*		*39 - 124*	*05/20/20 16:09*	*05/26/20 21:11*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		05/19/20 15:11	05/20/20 23:23	1
PCB-1221	**3.7**		0.50	0.091	ug/L		05/19/20 15:11	05/20/20 23:23	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/20/20 23:23	1
PCB-1242	<0.50		0.50	0.091	ug/L		05/19/20 15:11	05/20/20 23:23	1
PCB-1248	**13**		0.50	0.50	ug/L		05/19/20 15:11	05/21/20 18:24	5
PCB-1254	**8.3**		0.50	0.26	ug/L		05/19/20 15:11	05/21/20 18:24	5
PCB-1260	<0.50		0.50	0.057	ug/L		05/19/20 15:11	05/20/20 23:23	1
PCB-1268	<0.50		0.50	0.11	ug/L		05/19/20 15:11	05/20/20 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*42*		*14 - 130*	*05/19/20 15:11*	*05/20/20 23:23*	*1*
Tetrachloro-m-xylene	*102*		*40 - 130*	*05/19/20 15:11*	*05/20/20 23:23*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	**23**		1.4	1.4	ug/L		05/19/20 19:38	05/29/20 12:50	10
Tetraethyldithiopyrophosphate	<1.6		1.6	1.6	ug/L		05/19/20 19:38	05/29/20 12:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*96*	*D*	*60 - 154*	*05/19/20 19:38*	*05/29/20 12:50*	*10*
Chlormefos	*69*	*D*	*49 - 171*	*05/19/20 19:38*	*05/29/20 12:50*	*10*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	**0.041**		0.010	0.0010	mg/L		05/18/20 13:57	05/19/20 23:38	1
Manganese	**0.85**		0.010	0.0010	mg/L		05/18/20 13:57	05/19/20 23:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 21:08	1

Client Sample ID: FIELD DUPLICATE 1

Date Collected: 05/13/20 00:00
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**2.0**		1.0	0.26	ug/L			05/22/20 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*80 - 120*		*05/22/20 05:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*05/22/20 05:02*	*1*
Dibromofluoromethane (Surr)	*120*		*80 - 122*		*05/22/20 05:02*	*1*

Client Sample ID: FIELD DUPLICATE 1

Date Collected: 05/13/20 00:00
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/22/20 05:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	**2.9**	**J**	1.0	0.50	ug/L		05/20/20 16:09	05/26/20 21:34	1
1,4-Dichlorobenzene	**1.4**	**J**	1.0	0.51	ug/L		05/20/20 16:09	05/26/20 21:34	1
4-Nitrophenol	<25		25	1.8	ug/L		05/20/20 16:09	05/26/20 21:34	1
o,o',o"-Triethylphosphorothioate	**52**		10	0.95	ug/L		05/20/20 16:09	05/26/20 21:34	1
2,4,6-Trichlorophenol	<10		10	0.81	ug/L		05/20/20 16:09	05/26/20 21:34	1
Pentachlorophenol	<50		50	1.9	ug/L		05/20/20 16:09	05/26/20 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*61*		*32 - 113*	*05/20/20 16:09*	*05/26/20 21:34*	*1*
2-Fluorophenol	*53*		*26 - 109*	*05/20/20 16:09*	*05/26/20 21:34*	*1*
Nitrobenzene-d5	*60*		*32 - 118*	*05/20/20 16:09*	*05/26/20 21:34*	*1*
Phenol-d5	*57*		*27 - 110*	*05/20/20 16:09*	*05/26/20 21:34*	*1*
Terphenyl-d14	*53*		*10 - 126*	*05/20/20 16:09*	*05/26/20 21:34*	*1*
2,4,6-Tribromophenol	*95*		*39 - 124*	*05/20/20 16:09*	*05/26/20 21:34*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.089	ug/L		05/19/20 15:11	05/20/20 23:38	1
PCB-1221	<0.50		0.50	0.094	ug/L		05/19/20 15:11	05/20/20 23:38	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/20/20 23:38	1
PCB-1242	<0.50		0.50	0.094	ug/L		05/19/20 15:11	05/20/20 23:38	1
PCB-1248	<0.50		0.50	0.10	ug/L		05/19/20 15:11	05/20/20 23:38	1
PCB-1254	<0.50		0.50	0.054	ug/L		05/19/20 15:11	05/20/20 23:38	1
PCB-1260	<0.50		0.50	0.059	ug/L		05/19/20 15:11	05/20/20 23:38	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/20/20 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*23*	*p*	*14 - 130*	*05/19/20 15:11*	*05/20/20 23:38*	*1*
Tetrachloro-m-xylene	*51*		*40 - 130*	*05/19/20 15:11*	*05/20/20 23:38*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/19/20 19:38	05/27/20 16:21	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.16	ug/L		05/19/20 19:38	05/27/20 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*78*		*60 - 154*	*05/19/20 19:38*	*05/27/20 16:21*	*1*
Chlormefos	*64*		*49 - 171*	*05/19/20 19:38*	*05/27/20 16:21*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		05/18/20 13:57	05/19/20 23:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 21:12	1

Client Sample ID: Trip Blank

Lab Sample ID: 680-183870-7
Date Collected: 05/13/20 00:00
Matrix: Water
Date Received: 05/15/20 09:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/20/20 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*05/20/20 18:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*05/20/20 18:47*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 122*		*05/20/20 18:47*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*05/20/20 18:47*	*1*

Client Sample ID: MW-15 F

Lab Sample ID: 680-183870-8
Date Collected: 05/13/20 10:34
Matrix: Water
Date Received: 05/15/20 09:20

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		05/19/20 15:11	05/20/20 23:52	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/19/20 15:11	05/20/20 23:52	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/20/20 23:52	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/19/20 15:11	05/20/20 23:52	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/19/20 15:11	05/20/20 23:52	1
PCB-1254, Dissolved	<0.50		0.50	0.053	ug/L		05/19/20 15:11	05/20/20 23:52	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		05/19/20 15:11	05/20/20 23:52	1
PCB-1268, Dissolved	<0.50		0.50	0.11	ug/L		05/19/20 15:11	05/20/20 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*19*		*14 - 130*	*05/19/20 15:11*	*05/20/20 23:52*	*1*
Tetrachloro-m-xylene	*68*		*40 - 130*	*05/19/20 15:11*	*05/20/20 23:52*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.010		0.010	0.0010	mg/L		05/18/20 13:57	05/20/20 00:15	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 21:17	1

Client Sample ID: MW-16 F

Lab Sample ID: 680-183870-9
Date Collected: 05/13/20 13:28
Matrix: Water
Date Received: 05/15/20 09:20

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		05/19/20 15:11	05/21/20 00:06	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/19/20 15:11	05/21/20 00:06	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/21/20 00:06	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/19/20 15:11	05/21/20 00:06	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/19/20 15:11	05/21/20 00:06	1
PCB-1254, Dissolved	<0.50		0.50	0.053	ug/L		05/19/20 15:11	05/21/20 00:06	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		05/19/20 15:11	05/21/20 00:06	1
PCB-1268, Dissolved	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/21/20 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*17*		*14 - 130*	*05/19/20 15:11*	*05/21/20 00:06*	*1*

Client Sample ID: MW-16 F

Lab Sample ID: 680-183870-9
Date Collected: 05/13/20 13:28
Matrix: Water
Date Received: 05/15/20 09:20

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*40 - 130*	*05/19/20 15:11*	*05/21/20 00:06*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.010		0.010	0.0010	mg/L		05/18/20 13:57	05/20/20 00:02	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 21:25	1

Client Sample ID: OW-15 F

Lab Sample ID: 680-183870-10
Date Collected: 05/13/20 16:21
Matrix: Water
Date Received: 05/15/20 09:20

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		05/19/20 15:11	05/21/20 00:21	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/19/20 15:11	05/21/20 00:21	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/21/20 00:21	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/19/20 15:11	05/21/20 00:21	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/19/20 15:11	05/21/20 00:21	1
PCB-1254, Dissolved	<0.50		0.50	0.053	ug/L		05/19/20 15:11	05/21/20 00:21	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		05/19/20 15:11	05/21/20 00:21	1
PCB-1268, Dissolved	<0.50		0.50	0.11	ug/L		05/19/20 15:11	05/21/20 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*21*		*14 - 130*	*05/19/20 15:11*	*05/21/20 00:21*	*1*
Tetrachloro-m-xylene	*58*		*40 - 130*	*05/19/20 15:11*	*05/21/20 00:21*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.010		0.010	0.0010	mg/L		05/18/20 13:57	05/20/20 00:06	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 21:30	1

Client Sample ID: OW-16A F

Lab Sample ID: 680-183870-11
Date Collected: 05/13/20 16:29
Matrix: Water
Date Received: 05/15/20 09:20

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		05/19/20 15:11	05/21/20 00:35	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/19/20 15:11	05/21/20 00:35	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/21/20 00:35	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/19/20 15:11	05/21/20 00:35	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/19/20 15:11	05/21/20 00:35	1
PCB-1254, Dissolved	<0.50		0.50	0.053	ug/L		05/19/20 15:11	05/21/20 00:35	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		05/19/20 15:11	05/21/20 00:35	1

Client Sample ID: OW-16A F

Date Collected: 05/13/20 16:29
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-11
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268, Dissolved	<0.50		0.50	0.11	ug/L		05/19/20 15:11	05/21/20 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*12*	*X*	*14 - 130*	*05/19/20 15:11*	*05/21/20 00:35*	*1*
Tetrachloro-m-xylene	*57*		*40 - 130*	*05/19/20 15:11*	*05/21/20 00:35*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	**0.041**		0.010	0.0010	mg/L		05/18/20 13:57	05/20/20 00:11	1
Manganese, Dissolved	**0.85**		0.010	0.0010	mg/L		05/18/20 13:57	05/20/20 00:11	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 21:34	1

Client Sample ID: MW-20A F

Date Collected: 05/13/20 10:21
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-12
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.087	ug/L		05/19/20 15:11	05/21/20 00:49	1
PCB-1221, Dissolved	<0.50		0.50	0.092	ug/L		05/19/20 15:11	05/21/20 00:49	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/21/20 00:49	1
PCB-1242, Dissolved	<0.50		0.50	0.092	ug/L		05/19/20 15:11	05/21/20 00:49	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/19/20 15:11	05/21/20 00:49	1
PCB-1254, Dissolved	<0.50		0.50	0.053	ug/L		05/19/20 15:11	05/21/20 00:49	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		05/19/20 15:11	05/21/20 00:49	1
PCB-1268, Dissolved	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/21/20 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*10*	*X*	*14 - 130*	*05/19/20 15:11*	*05/21/20 00:49*	*1*
Tetrachloro-m-xylene	*61*		*40 - 130*	*05/19/20 15:11*	*05/21/20 00:49*	*1*

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-1
SDG: ANST183870

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TOL (80-120)	DCA (73-131)	DBFM (80-122)	BFB (80-120)
680-183870-1	MW-15	113	103	120	106
680-183870-2	MW-16	116	102	120	104
680-183870-3	OW-15	111	102	118	106
680-183870-4	MW-20A	98	110	104	93
680-183870-4 MS	MW-20A MS	97	87	92	107
680-183870-4 MSD	MW-20A MSD	109	94	100	117
680-183870-5	OW-16A	109	104	120	104
680-183870-6	FIELD DUPLICATE 1	111	104	120	104
680-183870-7	Trip Blank	109	104	114	107
LCS 680-619305/4	Lab Control Sample	108	105	105	111
LCS 680-619486/4	Lab Control Sample	107	102	107	112
LCS 680-619489/5	Lab Control Sample	100	100	101	102
LCS 680-619566/6	Lab Control Sample	111	106	107	113
LCS 680-619657/4	Lab Control Sample	104	96	99	112
LCSD 680-619305/5	Lab Control Sample Dup	106	101	104	112
LCSD 680-619486/5	Lab Control Sample Dup	105	101	103	114
LCSD 680-619489/6	Lab Control Sample Dup	100	103	103	101
LCSD 680-619566/7	Lab Control Sample Dup	110	107	109	112
LCSD 680-619657/5	Lab Control Sample Dup	105	99	100	112
MB 680-619305/10	Method Blank	109	105	119	106
MB 680-619486/9	Method Blank	108	94	112	113
MB 680-619489/9	Method Blank	99	107	106	94
MB 680-619566/10	Method Blank	110	92	113	106
MB 680-619657/10	Method Blank	110	105	118	112

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	FBP (32-113)	2FP (26-109)	NBZ (32-118)	PHL (27-110)	TPHL (10-126)	TBP (39-124)
680-183870-1	MW-15	67	58	64	60	96	79
680-183870-2	MW-16	57	28	57	39	88	88
680-183870-3	OW-15	66	56	62	60	104	85
680-183870-4	MW-20A	48	38	46	40	49	74
680-183870-4 MS	MW-20A MS	56	47	56	48	52	78
680-183870-4 MS	MW-20A MS	65	55	66	56	54	85
680-183870-4 MSD	MW-20A MSD	61	49	59	52	55	79
680-183870-4 MSD	MW-20A MSD	55	51	60	47	40	72
680-183870-5	OW-16A	60	56	62	57	81	91
680-183870-6	FIELD DUPLICATE 1	61	53	60	57	53	95
LCS 680-619347/19-A	Lab Control Sample	76	66	73	67	88	91
LCS 680-619347/22-A	Lab Control Sample	74	65	68	63	97	87
MB 680-619347/18-A	Method Blank	73	67	73	65	107	83

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-1
SDG: ANST183870

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCBP2	TCX2								
Lab Sample ID	Client Sample ID	(14-130)	(40-130)								
680-183870-1	MW-15	52	70								

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCBP1	TCX1								
Lab Sample ID	Client Sample ID	(14-130)	(40-130)								
680-183870-2	MW-16	46	45								
680-183870-3	OW-15	30	66								
680-183870-4 MS	MW-20A MS	16 p	47								
680-183870-5	OW-16A	42	102								
680-183870-6	FIELD DUPLICATE 1	23 p	51								

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCBP2	TCX1								
Lab Sample ID	Client Sample ID	(14-130)	(40-130)								
680-183870-4	MW-20A	37	73								

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-183870-4 MSD	MW-20A MSD	14 p	45
LCS 680-619216/17-A	Lab Control Sample	37	79
LCSD 680-619216/18-A	Lab Control Sample Dup	39	76
MB 680-619216/13-A	Method Blank	66	86

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-183870-9	MW-16 F	17	61
680-183870-10	OW-15 F	21	58
680-183870-12	MW-20A F	10 X	61

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-183870-8	MW-15 F	19	68
680-183870-11	OW-16A F	12 X	57

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TPP1	CMF1
Lab Sample ID	Client Sample ID	(60-154)	(49-171)
680-183870-1	MW-15	96	77
680-183870-2	MW-16	85	53
680-183870-3	OW-15	90	64
680-183870-4	MW-20A	63	52
680-183870-4 MS	MW-20A MS	81	65
680-183870-4 MSD	MW-20A MSD	86	69

Surrogate Summary

Client: GSI Environmental, Inc
Job ID: 680-183870-1
Project/Site: Anniston RCRA April 2020
SDG: ANST183870

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	TPP1 (60-154)	CMF1 (49-171)										
680-183870-5	OW-16A	96 D	69 D										
680-183870-6	FIELD DUPLICATE 1	78	64										
LCS 280-495492/2-A	Lab Control Sample	76	66										
LCS 280-495492/2-A	Lab Control Sample	79	67										
MB 280-495492/1-A	Method Blank	83	66										
MB 280-495492/1-A	Method Blank	113	94										

Surrogate Legend

TPP = Triphenylphosphate
CMF = Chlormefos

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-619305/10
Matrix: Water
Analysis Batch: 619305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/20/20 13:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*05/20/20 13:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*73 - 131*		*05/20/20 13:31*	*1*
Dibromofluoromethane (Surr)	*119*		*80 - 122*		*05/20/20 13:31*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/20/20 13:31*	*1*

Lab Sample ID: LCS 680-619305/4
Matrix: Water
Analysis Batch: 619305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorobenzene			50.0	48.0		ug/L		96	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*73 - 131*
Dibromofluoromethane (Surr)	*105*		*80 - 122*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*

Lab Sample ID: LCSD 680-619305/5
Matrix: Water
Analysis Batch: 619305

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	48.7		ug/L		97	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*
Dibromofluoromethane (Surr)	*104*		*80 - 122*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*

Lab Sample ID: MB 680-619486/9
Matrix: Water
Analysis Batch: 619486

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/21/20 13:02	1
1,2,4-Trichlorobenzene	<5.0		5.0	2.5	ug/L			05/21/20 13:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*05/21/20 13:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*		*05/21/20 13:02*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 122*		*05/21/20 13:02*	*1*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*		*05/21/20 13:02*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-619486/4
Matrix: Water
Analysis Batch: 619486

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorobenzene			50.0	49.2		ug/L		98	80 - 120		
1,2,4-Trichlorobenzene			50.0	52.5		ug/L		105	68 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*
Dibromofluoromethane (Surr)	*107*		*80 - 122*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*

Lab Sample ID: LCSD 680-619486/5
Matrix: Water
Analysis Batch: 619486

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	49.4		ug/L		99	80 - 120	1	20
1,2,4-Trichlorobenzene			50.0	52.8		ug/L		106	68 - 128	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*
Dibromofluoromethane (Surr)	*103*		*80 - 122*
4-Bromofluorobenzene (Surr)	*114*		*80 - 120*

Lab Sample ID: MB 680-619489/9
Matrix: Water
Analysis Batch: 619489

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/21/20 12:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/21/20 12:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*73 - 131*		*05/21/20 12:59*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 122*		*05/21/20 12:59*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*05/21/20 12:59*	*1*

Lab Sample ID: LCS 680-619489/5
Matrix: Water
Analysis Batch: 619489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorobenzene			50.0	50.3		ug/L		101	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*
Dibromofluoromethane (Surr)	*101*		*80 - 122*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-619489/5
Matrix: Water
Analysis Batch: 619489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: LCSD 680-619489/6
Matrix: Water
Analysis Batch: 619489

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	49.9		ug/L		100	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*
Dibromofluoromethane (Surr)	*103*		*80 - 122*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 680-619566/10
Matrix: Water
Analysis Batch: 619566

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/22/20 01:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*80 - 120*		*05/22/20 01:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*05/22/20 01:31*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 122*		*05/22/20 01:31*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/22/20 01:31*	*1*

Lab Sample ID: LCS 680-619566/6
Matrix: Water
Analysis Batch: 619566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorobenzene			50.0	49.1		ug/L		98	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*111*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*
Dibromofluoromethane (Surr)	*107*		*80 - 122*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*

Lab Sample ID: LCSD 680-619566/7
Matrix: Water
Analysis Batch: 619566

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	49.2		ug/L		98	80 - 120	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-619566/7
Matrix: Water
Analysis Batch: 619566

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*110*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*107*		*73 - 131*
Dibromofluoromethane (Surr)	*109*		*80 - 122*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*

Lab Sample ID: MB 680-619657/10
Matrix: Water
Analysis Batch: 619657

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/22/20 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*80 - 120*		*05/22/20 14:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*73 - 131*		*05/22/20 14:39*	*1*
Dibromofluoromethane (Surr)	*118*		*80 - 122*		*05/22/20 14:39*	*1*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*05/22/20 14:39*	*1*

Lab Sample ID: LCS 680-619657/4
Matrix: Water
Analysis Batch: 619657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorobenzene			50.0	48.0		ug/L		96	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*
Dibromofluoromethane (Surr)	*99*		*80 - 122*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*

Lab Sample ID: LCSD 680-619657/5
Matrix: Water
Analysis Batch: 619657

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	48.1		ug/L		96	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*
Dibromofluoromethane (Surr)	*100*		*80 - 122*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-183870-4 MS
Matrix: Water
Analysis Batch: 619657

Client Sample ID: MW-20A MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorobenzene	2.3		50.0	47.3		ug/L		90	80 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*87*		*73 - 131*
Dibromofluoromethane (Surr)	*92*		*80 - 122*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*

Lab Sample ID: 680-183870-4 MSD
Matrix: Water
Analysis Batch: 619657

Client Sample ID: MW-20A MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	2.3		50.0	51.5		ug/L		98	80 - 120	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*109*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*
Dibromofluoromethane (Surr)	*100*		*80 - 122*
4-Bromofluorobenzene (Surr)	*117*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-619347/18-A
Matrix: Water
Analysis Batch: 619925

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.53	ug/L		05/20/20 16:09	05/26/20 17:05	1
1,4-Dichlorobenzene	<1.0		1.0	0.54	ug/L		05/20/20 16:09	05/26/20 17:05	1
4-Nitrophenol	<25		25	1.9	ug/L		05/20/20 16:09	05/26/20 17:05	1
o,o',o''-Triethylphosphorothioate	<10		10	1.0	ug/L		05/20/20 16:09	05/26/20 17:05	1
2,4,6-Trichlorophenol	<10		10	0.85	ug/L		05/20/20 16:09	05/26/20 17:05	1
Pentachlorophenol	<50		50	2.0	ug/L		05/20/20 16:09	05/26/20 17:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*32 - 113*	*05/20/20 16:09*	*05/26/20 17:05*	*1*
2-Fluorophenol	*67*		*26 - 109*	*05/20/20 16:09*	*05/26/20 17:05*	*1*
Nitrobenzene-d5	*73*		*32 - 118*	*05/20/20 16:09*	*05/26/20 17:05*	*1*
Phenol-d5	*65*		*27 - 110*	*05/20/20 16:09*	*05/26/20 17:05*	*1*
Terphenyl-d14	*107*		*10 - 126*	*05/20/20 16:09*	*05/26/20 17:05*	*1*
2,4,6-Tribromophenol	*83*		*39 - 124*	*05/20/20 16:09*	*05/26/20 17:05*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-619347/19-A
Matrix: Water
Analysis Batch: 619925

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	100	62.0		ug/L		62	31 - 130
1,4-Dichlorobenzene	100	59.6		ug/L		60	31 - 130
4-Nitrophenol	200	170		ug/L		85	44 - 130
2,4,6-Trichlorophenol	100	89.9		ug/L		90	47 - 130
Pentachlorophenol	200	160		ug/L		80	33 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*32 - 113*
2-Fluorophenol	*66*		*26 - 109*
Nitrobenzene-d5	*73*		*32 - 118*
Phenol-d5	*67*		*27 - 110*
Terphenyl-d14	*88*		*10 - 126*
2,4,6-Tribromophenol	*91*		*39 - 124*

Lab Sample ID: LCS 680-619347/22-A
Matrix: Water
Analysis Batch: 619925

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o,o',o''-Triethylphosphorothioate	100	76.1		ug/L		76	23 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*32 - 113*
2-Fluorophenol	*65*		*26 - 109*
Nitrobenzene-d5	*68*		*32 - 118*
Phenol-d5	*63*		*27 - 110*
Terphenyl-d14	*97*		*10 - 126*
2,4,6-Tribromophenol	*87*		*39 - 124*

Lab Sample ID: 680-183870-4 MS
Matrix: Water
Analysis Batch: 619925

Client Sample ID: MW-20A MS
Prep Type: Total/NA
Prep Batch: 619347

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	2.0	J	94.3	44.2		ug/L		45	31 - 130
1,4-Dichlorobenzene	1.2	J	94.3	43.8		ug/L		45	31 - 130
4-Nitrophenol	<25		189	147		ug/L		78	44 - 130
Pentachlorophenol	<50		189	132		ug/L		69	33 - 130
2,4,6-Trichlorophenol	<10		94.3	67.8		ug/L		70	47 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*56*		*32 - 113*
2-Fluorophenol	*47*		*26 - 109*
Nitrobenzene-d5	*56*		*32 - 118*
Phenol-d5	*48*		*27 - 110*
Terphenyl-d14	*52*		*10 - 126*
2,4,6-Tribromophenol	*78*		*39 - 124*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-183870-4 MS
Matrix: Water
Analysis Batch: 619925

Client Sample ID: MW-20A MS
Prep Type: Total/NA
Prep Batch: 619347

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o,o',o''-Triethylphosphorothioate	37		91.2	114		ug/L		85	23 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*65*		*32 - 113*
2-Fluorophenol	*55*		*26 - 109*
Nitrobenzene-d5	*66*		*32 - 118*
Phenol-d5	*56*		*27 - 110*
Terphenyl-d14	*54*		*10 - 126*
2,4,6-Tribromophenol	*85*		*39 - 124*

Lab Sample ID: 680-183870-4 MSD
Matrix: Water
Analysis Batch: 619925

Client Sample ID: MW-20A MSD
Prep Type: Total/NA
Prep Batch: 619347

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	2.0	J	99.8	52.4		ug/L		50	31 - 130	17	50
1,4-Dichlorobenzene	1.2	J	99.8	51.5		ug/L		50	31 - 130	16	50
4-Nitrophenol	<25		200	149		ug/L		74	44 - 130	1	50
Pentachlorophenol	<50		200	154		ug/L		76	33 - 130	15	50
2,4,6-Trichlorophenol	<10		99.8	79.3		ug/L		78	47 - 130	16	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*61*		*32 - 113*
2-Fluorophenol	*49*		*26 - 109*
Nitrobenzene-d5	*59*		*32 - 118*
Phenol-d5	*52*		*27 - 110*
Terphenyl-d14	*55*		*10 - 126*
2,4,6-Tribromophenol	*79*		*39 - 124*

Lab Sample ID: 680-183870-4 MSD
Matrix: Water
Analysis Batch: 619925

Client Sample ID: MW-20A MSD
Prep Type: Total/NA
Prep Batch: 619347

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o,o',o''-Triethylphosphorothioate	37		99.0	110		ug/L		74	23 - 130	3	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*55*		*32 - 113*
2-Fluorophenol	*51*		*26 - 109*
Nitrobenzene-d5	*60*		*32 - 118*
Phenol-d5	*47*		*27 - 110*
Terphenyl-d14	*40*		*10 - 126*
2,4,6-Tribromophenol	*72*		*39 - 124*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-619216/13-A
Matrix: Water
Analysis Batch: 619461

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/19/20 15:11	05/20/20 21:43	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		05/19/20 15:11	05/20/20 21:43	1
PCB-1221	<0.50		0.50	0.095	ug/L		05/19/20 15:11	05/20/20 21:43	1
PCB-1221, Dissolved	<0.50		0.50	0.095	ug/L		05/19/20 15:11	05/20/20 21:43	1
PCB-1232	<0.50		0.50	0.13	ug/L		05/19/20 15:11	05/20/20 21:43	1
PCB-1232, Dissolved	<0.50		0.50	0.13	ug/L		05/19/20 15:11	05/20/20 21:43	1
PCB-1242	<0.50		0.50	0.095	ug/L		05/19/20 15:11	05/20/20 21:43	1
PCB-1242, Dissolved	<0.50		0.50	0.095	ug/L		05/19/20 15:11	05/20/20 21:43	1
PCB-1248	<0.50		0.50	0.11	ug/L		05/19/20 15:11	05/20/20 21:43	1
PCB-1248, Dissolved	<0.50		0.50	0.11	ug/L		05/19/20 15:11	05/20/20 21:43	1
PCB-1254	<0.50		0.50	0.055	ug/L		05/19/20 15:11	05/20/20 21:43	1
PCB-1254, Dissolved	<0.50		0.50	0.055	ug/L		05/19/20 15:11	05/20/20 21:43	1
PCB-1260	<0.50		0.50	0.060	ug/L		05/19/20 15:11	05/20/20 21:43	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		05/19/20 15:11	05/20/20 21:43	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/20/20 21:43	1
PCB-1268, Dissolved	<0.50		0.50	0.12	ug/L		05/19/20 15:11	05/20/20 21:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*14 - 130*	*05/19/20 15:11*	*05/20/20 21:43*	*1*
Tetrachloro-m-xylene	*86*		*40 - 130*	*05/19/20 15:11*	*05/20/20 21:43*	*1*

Lab Sample ID: LCS 680-619216/17-A
Matrix: Water
Analysis Batch: 619461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	3.00	2.60		ug/L		87	44 - 130
PCB-1016, Dissolved	3.00	2.60		ug/L		87	44 - 130
PCB-1260	3.00	2.72		ug/L		91	35 - 130
PCB-1260, Dissolved	3.00	2.72		ug/L		91	35 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*37*		*14 - 130*
Tetrachloro-m-xylene	*79*		*40 - 130*

Lab Sample ID: LCSD 680-619216/18-A
Matrix: Water
Analysis Batch: 619461

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 619216

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	3.00	2.49		ug/L		83	44 - 130	4	30
PCB-1016, Dissolved	3.00	2.49		ug/L		83	44 - 130	4	30
PCB-1260	3.00	2.66		ug/L		89	35 - 130	2	40
PCB-1260, Dissolved	3.00	2.66		ug/L		89	35 - 130	2	40

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 680-619216/18-A
Matrix: Water
Analysis Batch: 619461

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 619216

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*39*		*14 - 130*
Tetrachloro-m-xylene	*76*		*40 - 130*

Lab Sample ID: 680-183870-4 MS
Matrix: Water
Analysis Batch: 619461

Client Sample ID: MW-20A MS
Prep Type: Total/NA
Prep Batch: 619216

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*16*	*p*	*14 - 130*
Tetrachloro-m-xylene	*47*		*40 - 130*

Lab Sample ID: 680-183870-4 MSD
Matrix: Water
Analysis Batch: 619461

Client Sample ID: MW-20A MSD
Prep Type: Total/NA
Prep Batch: 619216

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*14*	*p*	*14 - 130*
Tetrachloro-m-xylene	*45*		*40 - 130*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-495492/1-A
Matrix: Water
Analysis Batch: 496251

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/19/20 19:38	05/27/20 05:17	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.17	ug/L		05/19/20 19:38	05/27/20 05:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*83*		*60 - 154*	*05/19/20 19:38*	*05/27/20 05:17*	*1*
Chlormefos	*66*		*49 - 171*	*05/19/20 19:38*	*05/27/20 05:17*	*1*

Lab Sample ID: MB 280-495492/1-A
Matrix: Water
Analysis Batch: 496581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/19/20 19:38	05/29/20 11:31	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.17	ug/L		05/19/20 19:38	05/29/20 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*113*		*60 - 154*	*05/19/20 19:38*	*05/29/20 11:31*	*1*
Chlormefos	*94*		*49 - 171*	*05/19/20 19:38*	*05/29/20 11:31*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: LCS 280-495492/2-A
Matrix: Water
Analysis Batch: 496251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495492

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Parathion			4.00	3.60		ug/L		90	55 - 107		
Tetraethyldithiopyrophosphate			4.00	3.49		ug/L		87	53 - 110		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*76*		*60 - 154*
Chlormefos	*66*		*49 - 171*

Lab Sample ID: LCS 280-495492/2-A
Matrix: Water
Analysis Batch: 496581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495492

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Parathion			4.00	3.68		ug/L		92	55 - 107		
Tetraethyldithiopyrophosphate			4.00	3.40		ug/L		85	53 - 110		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*79*		*60 - 154*
Chlormefos	*67*		*49 - 171*

Lab Sample ID: 680-183870-4 MS
Matrix: Water
Analysis Batch: 496251

Client Sample ID: MW-20A MS
Prep Type: Total/NA
Prep Batch: 495492

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Parathion	<1.0		3.80	3.35		ug/L		88	55 - 107		
Tetraethyldithiopyrophosphate	<0.50		3.80	3.13		ug/L		82	53 - 110		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate	*81*		*60 - 154*
Chlormefos	*65*		*49 - 171*

Lab Sample ID: 680-183870-4 MSD
Matrix: Water
Analysis Batch: 496251

Client Sample ID: MW-20A MSD
Prep Type: Total/NA
Prep Batch: 495492

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Parathion	<1.0		3.78	3.57		ug/L		94	55 - 107	6	20
Tetraethyldithiopyrophosphate	<0.50		3.78	3.23		ug/L		85	53 - 110	3	27

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate	*86*		*60 - 154*
Chlormefos	*69*		*49 - 171*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-619086/1-A
Matrix: Water
Analysis Batch: 619358

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 619086

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		05/18/20 13:57	05/19/20 22:52	1
Cobalt, Dissolved	<0.010		0.010	0.0010	mg/L		05/18/20 13:57	05/19/20 22:52	1
Manganese	<10		10	1.0	ug/L		05/18/20 13:57	05/19/20 22:52	1
Manganese, Dissolved	<10		10	1.0	ug/L		05/18/20 13:57	05/19/20 22:52	1

Lab Sample ID: LCS 680-619086/2-A
Matrix: Water
Analysis Batch: 619358

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 619086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.0501	0.0530		mg/L		106	80 - 120
Cobalt, Dissolved	0.0501	0.0530		mg/L		106	80 - 120
Manganese	400	388		ug/L		97	80 - 120
Manganese, Dissolved	400	388		ug/L		97	80 - 120

Lab Sample ID: 680-183870-4 MS
Matrix: Water
Analysis Batch: 619358

Client Sample ID: MW-20A MS
Prep Type: Total Recoverable
Prep Batch: 619086

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	<0.010		0.0501	0.0557		mg/L		107	75 - 125

Lab Sample ID: 680-183870-4 MSD
Matrix: Water
Analysis Batch: 619358

Client Sample ID: MW-20A MSD
Prep Type: Total Recoverable
Prep Batch: 619086

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	<0.010		0.0501	0.0573		mg/L		110	75 - 125	3	20

Lab Sample ID: MB 680-619560/1-A
Matrix: Water
Analysis Batch: 619792

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 619560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		05/21/20 13:38	05/22/20 20:05	1

Lab Sample ID: LCS 680-619560/2-A
Matrix: Water
Analysis Batch: 619792

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 619560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.0501	0.0525		mg/L		105	80 - 120

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-1
SDG: ANST183870

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-619076/1-A
Matrix: Water
Analysis Batch: 619198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619076

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 20:20	1
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 20:20	1

Lab Sample ID: LCS 680-619076/2-A
Matrix: Water
Analysis Batch: 619198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00260		mg/L		104	80 - 120
Mercury, Dissolved	0.00250	0.00260		mg/L		104	80 - 120

Lab Sample ID: 680-183870-4 MS
Matrix: Water
Analysis Batch: 619198

Client Sample ID: MW-20A MS
Prep Type: Total/NA
Prep Batch: 619076

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020	F1	0.00100	0.000732	F1	mg/L		73	80 - 120

Lab Sample ID: 680-183870-4 MSD
Matrix: Water
Analysis Batch: 619198

Client Sample ID: MW-20A MSD
Prep Type: Total/NA
Prep Batch: 619076

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020	F1	0.00100	0.000726	F1	mg/L		73	80 - 120	1	20

GC/MS VOA

Analysis Batch: 619305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-7	Trip Blank	Total/NA	Water	8260B	
MB 680-619305/10	Method Blank	Total/NA	Water	8260B	
LCS 680-619305/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-619305/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 619486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-5	OW-16A	Total/NA	Water	8260B	
MB 680-619486/9	Method Blank	Total/NA	Water	8260B	
LCS 680-619486/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-619486/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 619489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-4	MW-20A	Total/NA	Water	8260B	
MB 680-619489/9	Method Blank	Total/NA	Water	8260B	
LCS 680-619489/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-619489/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 619566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-1	MW-15	Total/NA	Water	8260B	
680-183870-2	MW-16	Total/NA	Water	8260B	
680-183870-3	OW-15	Total/NA	Water	8260B	
680-183870-6	FIELD DUPLICATE 1	Total/NA	Water	8260B	
MB 680-619566/10	Method Blank	Total/NA	Water	8260B	
LCS 680-619566/6	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-619566/7	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 619657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-619657/10	Method Blank	Total/NA	Water	8260B	
LCS 680-619657/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-619657/5	Lab Control Sample Dup	Total/NA	Water	8260B	
680-183870-4 MS	MW-20A MS	Total/NA	Water	8260B	
680-183870-4 MSD	MW-20A MSD	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 619347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-1	MW-15	Total/NA	Water	3520C	
680-183870-2	MW-16	Total/NA	Water	3520C	
680-183870-3	OW-15	Total/NA	Water	3520C	
680-183870-4	MW-20A	Total/NA	Water	3520C	
680-183870-5	OW-16A	Total/NA	Water	3520C	
680-183870-6	FIELD DUPLICATE 1	Total/NA	Water	3520C	
MB 680-619347/18-A	Method Blank	Total/NA	Water	3520C	
LCS 680-619347/19-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-619347/22-A	Lab Control Sample	Total/NA	Water	3520C	
680-183870-4 MS	MW-20A MS	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 619347 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-4 MS	MW-20A MS	Total/NA	Water	3520C	
680-183870-4 MSD	MW-20A MSD	Total/NA	Water	3520C	
680-183870-4 MSD	MW-20A MSD	Total/NA	Water	3520C	

Analysis Batch: 619925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-1	MW-15	Total/NA	Water	8270D	619347
680-183870-2	MW-16	Total/NA	Water	8270D	619347
680-183870-3	OW-15	Total/NA	Water	8270D	619347
680-183870-4	MW-20A	Total/NA	Water	8270D	619347
680-183870-5	OW-16A	Total/NA	Water	8270D	619347
680-183870-6	FIELD DUPLICATE 1	Total/NA	Water	8270D	619347
MB 680-619347/18-A	Method Blank	Total/NA	Water	8270D	619347
LCS 680-619347/19-A	Lab Control Sample	Total/NA	Water	8270D	619347
LCS 680-619347/22-A	Lab Control Sample	Total/NA	Water	8270D	619347
680-183870-4 MS	MW-20A MS	Total/NA	Water	8270D	619347
680-183870-4 MS	MW-20A MS	Total/NA	Water	8270D	619347
680-183870-4 MSD	MW-20A MSD	Total/NA	Water	8270D	619347
680-183870-4 MSD	MW-20A MSD	Total/NA	Water	8270D	619347

GC Semi VOA

Prep Batch: 495492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-1	MW-15	Total/NA	Water	3510C	
680-183870-2	MW-16	Total/NA	Water	3510C	
680-183870-3	OW-15	Total/NA	Water	3510C	
680-183870-4	MW-20A	Total/NA	Water	3510C	
680-183870-5	OW-16A	Total/NA	Water	3510C	
680-183870-6	FIELD DUPLICATE 1	Total/NA	Water	3510C	
MB 280-495492/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-495492/2-A	Lab Control Sample	Total/NA	Water	3510C	
680-183870-4 MS	MW-20A MS	Total/NA	Water	3510C	
680-183870-4 MSD	MW-20A MSD	Total/NA	Water	3510C	

Analysis Batch: 496251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-1	MW-15	Total/NA	Water	8141B	495492
680-183870-2	MW-16	Total/NA	Water	8141B	495492
680-183870-3	OW-15	Total/NA	Water	8141B	495492
680-183870-4	MW-20A	Total/NA	Water	8141B	495492
680-183870-6	FIELD DUPLICATE 1	Total/NA	Water	8141B	495492
MB 280-495492/1-A	Method Blank	Total/NA	Water	8141B	495492
LCS 280-495492/2-A	Lab Control Sample	Total/NA	Water	8141B	495492
680-183870-4 MS	MW-20A MS	Total/NA	Water	8141B	495492
680-183870-4 MSD	MW-20A MSD	Total/NA	Water	8141B	495492

Analysis Batch: 496581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-5	OW-16A	Total/NA	Water	8141B	495492
MB 280-495492/1-A	Method Blank	Total/NA	Water	8141B	495492

GC Semi VOA (Continued)

Analysis Batch: 496581 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-495492/2-A	Lab Control Sample	Total/NA	Water	8141B	495492

Prep Batch: 619216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-1	MW-15	Total/NA	Water	3520C	
680-183870-2	MW-16	Total/NA	Water	3520C	
680-183870-3	OW-15	Total/NA	Water	3520C	
680-183870-4	MW-20A	Total/NA	Water	3520C	
680-183870-5	OW-16A	Total/NA	Water	3520C	
680-183870-6	FIELD DUPLICATE 1	Total/NA	Water	3520C	
680-183870-8	MW-15 F	Dissolved	Water	3520C	
680-183870-9	MW-16 F	Dissolved	Water	3520C	
680-183870-10	OW-15 F	Dissolved	Water	3520C	
680-183870-11	OW-16A F	Dissolved	Water	3520C	
680-183870-12	MW-20A F	Dissolved	Water	3520C	
MB 680-619216/13-A	Method Blank	Total/NA	Water	3520C	
LCS 680-619216/17-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-619216/18-A	Lab Control Sample Dup	Total/NA	Water	3520C	
680-183870-4 MS	MW-20A MS	Total/NA	Water	3520C	
680-183870-4 MSD	MW-20A MSD	Total/NA	Water	3520C	

Analysis Batch: 619461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-1	MW-15	Total/NA	Water	8081B/8082A	619216
680-183870-2	MW-16	Total/NA	Water	8081B/8082A	619216
680-183870-3	OW-15	Total/NA	Water	8081B/8082A	619216
680-183870-4	MW-20A	Total/NA	Water	8081B/8082A	619216
680-183870-5	OW-16A	Total/NA	Water	8081B/8082A	619216
680-183870-6	FIELD DUPLICATE 1	Total/NA	Water	8081B/8082A	619216
680-183870-8	MW-15 F	Dissolved	Water	8081B/8082A	619216
680-183870-9	MW-16 F	Dissolved	Water	8081B/8082A	619216
680-183870-10	OW-15 F	Dissolved	Water	8081B/8082A	619216
680-183870-11	OW-16A F	Dissolved	Water	8081B/8082A	619216
680-183870-12	MW-20A F	Dissolved	Water	8081B/8082A	619216
MB 680-619216/13-A	Method Blank	Total/NA	Water	8081B/8082A	619216
LCS 680-619216/17-A	Lab Control Sample	Total/NA	Water	8081B/8082A	619216
LCSD 680-619216/18-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	619216
680-183870-4 MS	MW-20A MS	Total/NA	Water	8081B/8082A	619216
680-183870-4 MSD	MW-20A MSD	Total/NA	Water	8081B/8082A	619216

Analysis Batch: 619582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-5	OW-16A	Total/NA	Water	8081B/8082A	619216

Metals

Prep Batch: 619076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-1	MW-15	Total/NA	Water	7470A	
680-183870-2	MW-16	Total/NA	Water	7470A	
680-183870-3	OW-15	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 619076 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-4	MW-20A	Total/NA	Water	7470A	
680-183870-5	OW-16A	Total/NA	Water	7470A	
680-183870-6	FIELD DUPLICATE 1	Total/NA	Water	7470A	
680-183870-8	MW-15 F	Dissolved	Water	7470A	
680-183870-9	MW-16 F	Dissolved	Water	7470A	
680-183870-10	OW-15 F	Dissolved	Water	7470A	
680-183870-11	OW-16A F	Dissolved	Water	7470A	
MB 680-619076/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-619076/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-183870-4 MS	MW-20A MS	Total/NA	Water	7470A	
680-183870-4 MSD	MW-20A MSD	Total/NA	Water	7470A	

Prep Batch: 619086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-1	MW-15	Total Recoverable	Water	3005A	
680-183870-2	MW-16	Total Recoverable	Water	3005A	
680-183870-4	MW-20A	Total Recoverable	Water	3005A	
680-183870-5	OW-16A	Total Recoverable	Water	3005A	
680-183870-6	FIELD DUPLICATE 1	Total Recoverable	Water	3005A	
680-183870-8	MW-15 F	Dissolved	Water	3005A	
680-183870-9	MW-16 F	Dissolved	Water	3005A	
680-183870-10	OW-15 F	Dissolved	Water	3005A	
680-183870-11	OW-16A F	Dissolved	Water	3005A	
MB 680-619086/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-619086/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-183870-4 MS	MW-20A MS	Total Recoverable	Water	3005A	
680-183870-4 MSD	MW-20A MSD	Total Recoverable	Water	3005A	

Analysis Batch: 619198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-1	MW-15	Total/NA	Water	7470A	619076
680-183870-2	MW-16	Total/NA	Water	7470A	619076
680-183870-3	OW-15	Total/NA	Water	7470A	619076
680-183870-4	MW-20A	Total/NA	Water	7470A	619076
680-183870-5	OW-16A	Total/NA	Water	7470A	619076
680-183870-6	FIELD DUPLICATE 1	Total/NA	Water	7470A	619076
680-183870-8	MW-15 F	Dissolved	Water	7470A	619076
680-183870-9	MW-16 F	Dissolved	Water	7470A	619076
680-183870-10	OW-15 F	Dissolved	Water	7470A	619076
680-183870-11	OW-16A F	Dissolved	Water	7470A	619076
MB 680-619076/1-A	Method Blank	Total/NA	Water	7470A	619076
LCS 680-619076/2-A	Lab Control Sample	Total/NA	Water	7470A	619076
680-183870-4 MS	MW-20A MS	Total/NA	Water	7470A	619076
680-183870-4 MSD	MW-20A MSD	Total/NA	Water	7470A	619076

Analysis Batch: 619358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-1	MW-15	Total Recoverable	Water	6010C	619086
680-183870-2	MW-16	Total Recoverable	Water	6010C	619086
680-183870-4	MW-20A	Total Recoverable	Water	6010C	619086
680-183870-5	OW-16A	Total Recoverable	Water	6010C	619086

Metals (Continued)

Analysis Batch: 619358 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-6	FIELD DUPLICATE 1	Total Recoverable	Water	6010C	619086
680-183870-8	MW-15 F	Dissolved	Water	6010C	619086
680-183870-9	MW-16 F	Dissolved	Water	6010C	619086
680-183870-10	OW-15 F	Dissolved	Water	6010C	619086
680-183870-11	OW-16A F	Dissolved	Water	6010C	619086
MB 680-619086/1-A	Method Blank	Total Recoverable	Water	6010C	619086
LCS 680-619086/2-A	Lab Control Sample	Total Recoverable	Water	6010C	619086
680-183870-4 MS	MW-20A MS	Total Recoverable	Water	6010C	619086
680-183870-4 MSD	MW-20A MSD	Total Recoverable	Water	6010C	619086

Prep Batch: 619560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-3	OW-15	Total Recoverable	Water	3005A	
MB 680-619560/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-619560/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 619792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-3	OW-15	Total Recoverable	Water	6010C	619560
MB 680-619560/1-A	Method Blank	Total Recoverable	Water	6010C	619560
LCS 680-619560/2-A	Lab Control Sample	Total Recoverable	Water	6010C	619560

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-1
SDG: ANST183870

Client Sample ID: MW-15

Date Collected: 05/13/20 10:34
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	619566	05/22/20 03:51	P1C	TAL SAV
	Instrument ID: CMSA2									
Total/NA	Prep	3520C			1030.8 mL	1 mL	619347	05/20/20 16:09	EHS	TAL SAV
Total/NA	Analysis	8270D		1			619925	05/26/20 19:42	T1C	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1041.1 mL	5 mL	619216	05/19/20 15:11	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			619461	05/20/20 22:26	GEM	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1054.3 mL	2 mL	495492	05/19/20 19:38	DFB1	TAL DEN
Total/NA	Analysis	8141B		1			496251	05/27/20 11:47	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	619086	05/18/20 13:57	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			619358	05/19/20 23:48	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619076	05/18/20 12:46	BCB	TAL SAV
Total/NA	Analysis	7470A		1			619198	05/18/20 20:59	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: MW-16

Date Collected: 05/13/20 13:28
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	619566	05/22/20 04:15	P1C	TAL SAV
	Instrument ID: CMSA2									
Total/NA	Prep	3520C			1044.2 mL	1 mL	619347	05/20/20 16:09	EHS	TAL SAV
Total/NA	Analysis	8270D		1			619925	05/26/20 20:04	T1C	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1028.8 mL	5 mL	619216	05/19/20 15:11	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			619461	05/20/20 22:41	GEM	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1034.1 mL	2 mL	495492	05/19/20 19:38	DFB1	TAL DEN
Total/NA	Analysis	8141B		1			496251	05/27/20 12:26	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	619086	05/18/20 13:57	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			619358	05/19/20 23:43	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619076	05/18/20 12:46	BCB	TAL SAV
Total/NA	Analysis	7470A		1			619198	05/18/20 21:04	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-1
SDG: ANST183870

Client Sample ID: OW-15

Date Collected: 05/13/20 16:21
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	619566	05/22/20 04:38	P1C	TAL SAV
	Instrument ID: CMSA2									
Total/NA	Prep	3520C			1052.1 mL	1 mL	619347	05/20/20 16:09	EHS	TAL SAV
Total/NA	Analysis	8270D		1			619925	05/26/20 20:27	T1C	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1047.2 mL	5 mL	619216	05/19/20 15:11	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			619461	05/20/20 22:55	GEM	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1031.6 mL	2 mL	495492	05/19/20 19:38	DFB1	TAL DEN
Total/NA	Analysis	8141B		1			496251	05/27/20 13:06	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	619560	05/21/20 13:38	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			619792	05/22/20 20:37	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619076	05/18/20 12:46	BCB	TAL SAV
Total/NA	Analysis	7470A		1			619198	05/18/20 22:05	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: MW-20A

Date Collected: 05/13/20 10:21
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	619489	05/21/20 20:22	Y1S	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	3520C			1024.6 mL	1 mL	619347	05/20/20 16:09	EHS	TAL SAV
Total/NA	Analysis	8270D		1			619925	05/26/20 20:49	T1C	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1030.1 mL	5 mL	619216	05/19/20 15:11	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			619461	05/20/20 23:09	GEM	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1054.1 mL	2 mL	495492	05/19/20 19:38	DFB1	TAL DEN
Total/NA	Analysis	8141B		1			496251	05/27/20 13:45	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	619086	05/18/20 13:57	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			619358	05/19/20 23:11	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619076	05/18/20 12:46	BCB	TAL SAV
Total/NA	Analysis	7470A		1			619198	05/18/20 20:29	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-1
SDG: ANST183870

Client Sample ID: OW-16A

Date Collected: 05/13/20 16:29
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	619486	05/21/20 20:52	P1C	TAL SAV
	Instrument ID: CMSA2									
Total/NA	Prep	3520C			1049.2 mL	1 mL	619347	05/20/20 16:09	EHS	TAL SAV
Total/NA	Analysis	8270D		1			619925	05/26/20 21:11	T1C	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1046.6 mL	5 mL	619216	05/19/20 15:11	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			619461	05/20/20 23:23	GEM	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			1046.6 mL	5 mL	619216	05/19/20 15:11	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		5			619582	05/21/20 18:24	GEM	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1056.7 mL	2 mL	495492	05/19/20 19:38	DFB1	TAL DEN
Total/NA	Analysis	8141B		10			496581	05/29/20 12:50	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	619086	05/18/20 13:57	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			619358	05/19/20 23:38	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619076	05/18/20 12:46	BCB	TAL SAV
Total/NA	Analysis	7470A		1			619198	05/18/20 21:08	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: FIELD DUPLICATE 1

Date Collected: 05/13/20 00:00
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	619566	05/22/20 05:02	P1C	TAL SAV
	Instrument ID: CMSA2									
Total/NA	Prep	3520C			1051.6 mL	1 mL	619347	05/20/20 16:09	EHS	TAL SAV
Total/NA	Analysis	8270D		1			619925	05/26/20 21:34	T1C	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1009.3 mL	5 mL	619216	05/19/20 15:11	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			619461	05/20/20 23:38	GEM	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1038.6 mL	2 mL	495492	05/19/20 19:38	DFB1	TAL DEN
Total/NA	Analysis	8141B		1			496251	05/27/20 16:21	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	619086	05/18/20 13:57	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			619358	05/19/20 23:34	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619076	05/18/20 12:46	BCB	TAL SAV
Total/NA	Analysis	7470A		1			619198	05/18/20 21:12	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-1
SDG: ANST183870

Client Sample ID: Trip Blank
Date Collected: 05/13/20 00:00
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	619305	05/20/20 18:47	P1C	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: MW-15 F
Date Collected: 05/13/20 10:34
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1046.5 mL	5 mL	619216	05/19/20 15:11	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			619461	05/20/20 23:52	GEM	TAL SAV
	Instrument ID: CSGAA									
Dissolved	Prep	3005A			50 mL	50 mL	619086	05/18/20 13:57	AJR	TAL SAV
Dissolved	Analysis	6010C		1			619358	05/20/20 00:15	BCB	TAL SAV
	Instrument ID: ICPE									
Dissolved	Prep	7470A			50 mL	50 mL	619076	05/18/20 12:46	BCB	TAL SAV
Dissolved	Analysis	7470A		1			619198	05/18/20 21:17	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: MW-16 F
Date Collected: 05/13/20 13:28
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1041.7 mL	5 mL	619216	05/19/20 15:11	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			619461	05/21/20 00:06	GEM	TAL SAV
	Instrument ID: CSGAA									
Dissolved	Prep	3005A			50 mL	50 mL	619086	05/18/20 13:57	AJR	TAL SAV
Dissolved	Analysis	6010C		1			619358	05/20/20 00:02	BCB	TAL SAV
	Instrument ID: ICPE									
Dissolved	Prep	7470A			50 mL	50 mL	619076	05/18/20 12:46	BCB	TAL SAV
Dissolved	Analysis	7470A		1			619198	05/18/20 21:25	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: OW-15 F
Date Collected: 05/13/20 16:21
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1044.5 mL	5 mL	619216	05/19/20 15:11	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			619461	05/21/20 00:21	GEM	TAL SAV
	Instrument ID: CSGAA									
Dissolved	Prep	3005A			50 mL	50 mL	619086	05/18/20 13:57	AJR	TAL SAV
Dissolved	Analysis	6010C		1			619358	05/20/20 00:06	BCB	TAL SAV
	Instrument ID: ICPE									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-1
SDG: ANST183870

Client Sample ID: OW-15 F

Date Collected: 05/13/20 16:21
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			50 mL	50 mL	619076	05/18/20 12:46	BCB	TAL SAV
Dissolved	Analysis	7470A		1			619198	05/18/20 21:30	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: OW-16A F

Date Collected: 05/13/20 16:29
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1045.9 mL	5 mL	619216	05/19/20 15:11	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			619461	05/21/20 00:35	GEM	TAL SAV
	Instrument ID: CSGAA									
Dissolved	Prep	3005A			50 mL	50 mL	619086	05/18/20 13:57	AJR	TAL SAV
Dissolved	Analysis	6010C		1			619358	05/20/20 00:11	BCB	TAL SAV
	Instrument ID: ICPE									
Dissolved	Prep	7470A			50 mL	50 mL	619076	05/18/20 12:46	BCB	TAL SAV
Dissolved	Analysis	7470A		1			619198	05/18/20 21:34	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: MW-20A F

Date Collected: 05/13/20 10:21
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1031.4 mL	5 mL	619216	05/19/20 15:11	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			619461	05/21/20 00:49	GEM	TAL SAV
	Instrument ID: CSGAA									

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-1
SDG: ANST183870

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-20

Laboratory: Eurofins TestAmerica, Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	05-31-20
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	06-30-20
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-20
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	07-31-20
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-20
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	08-01-20
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	CO000262019-11	07-31-20
Virginia	NELAP	10490	06-14-20
Washington	State	C583-19	08-05-20
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-1
SDG: ANST183870

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	TAL DEN
6010C	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
7470A	Preparation, Mercury	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

680-183870 Chain of Custody

eurofins Environment Testing TestAmerica

Client Information	Sampler: JL, WRG, STR	Lab PM: Hallmon, Willie	COC No: 680-113805-43640.1
Client Contact: Ben Smith	Phone: 713-522-6300	E-Mail: willie.hallmon@	Page: Page 1 of 3
Company: GSI Environmental, Inc			Job #: 5418
Address: 2211 Norfolk, Suite 1000	Due Date Requested:		
City: Houston	TAT Requested (days): standard		
State, Zip: TX, 77098-4044			
Phone: 713-522-6300(Tel)	PO #: 45008622		
Email: WBSmith@gsi-net.com ; wrgodwin@gsi-net.com	WO #:		
Project Name: Anniston RCRA April 2020	Project #: 68018993		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B - 8141	8270D - 8270 SVOCs	6010C - 6010 Metals	8260B - 8260 VOCs	8081B_8082A - 8082 PCBs	8260B - 8260 Trip Blanks	8270D - 4-NP/ooo-TEPP	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered	6010C, 7470A	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	D	A	N	A	N	N	D		
~~MW-01R~~				Water													
~~MW-08~~				Water													
~~MW-09A~~				Water													
MW-15	5/13/20	10:34	G	Water	N	N	X	X	X	X	X				X	10	cobalt (6010)
MW-16	5/13/20	13:28	G	Water	N	N	X	X	X	X	X				X	10	cobalt (6010)
~~OW-09A~~				Water													
OW-15	5/13/20	16:21	G	Water	N	N	X	X	X	X	X		[redacted] WG		X	10	cobalt (6010)
~~OW-22~~				Water													
~~MW-14~~				Water													
MW-20A	5/13/20	10:21	G	Water	N	N	X	X	X	X	X				X	10	cobalt (6010)
MW-20AMS	5/13/20	10:21	G	Water	N	Y	X	X	X	X	X				X	10	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level II

Special Instructions/QC Requirements: 7470A - Only mercury

Empty Kit Relinquished by: Date: ~~5/14/20~~ WG Time: ~~8:50~~ WG Method of Shipment: Fedex

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Whitney Godwin GSI	5/14/20 8:55	GSI	[redacted]	05-15-20 0920	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.: 2.6 | 4.5 | 1.4 | 0.8 | 3.2 | 2.6 (CF) 3.0 | 4.9 | 1.8 | 1.2 | 3.6 | 3.0°C

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing TestAmerica

Loc: 680
183870

Client Information	Sampler: JL, WRE, STR	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113805-43640.2
Client Contact: Ben Smith	Phone: 713-522-6300	E-Mail: willie.hallmon@testamericainc.com		Page: Page 2 of 3
Company: GSI Environmental, Inc				Job #: 5418
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days): standard			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 45008622			
Email: WBSmith@gsi-net.com ; wrgadwin@gsi-net.com	WO #:			
Project Name: Anniston RCRA April 2020	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hex; N - Non; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B - 8141	8270D - 8270 SVOCs	6010C - 6010 Metals	8260B - 8260 VOCs	8081B_8082A - 8082 PCBs	8260B - 8260 Trip Blanks	8270D - 4-NP/ooo-TEPP	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered	6010C, 7470A					Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	A	N	A	N	N	D						
MW-20A MSD	5/13/20	10:21	G	Water	N	Y	X	X	X	X	X				X						10	
~~OW-66A~~				Water																		
OW-16A	5/13/20	16:29	G	Water	N	N	X	X	X	X	X				X						10	cobalt+manganese (6010)
~~OW-21A~~				Water																		
FIELD DUPLICATE 1	5/13/20	—	G	Water	N	N	X	X	X	X	X				X						10	cobalt (6010)
Trip Blank	5/13/20	—	G	Water	N	N						X									2	
~~Trip Blank 2~~				Water																		
~~Trip Blank 3~~				Water																		
				Water																		
~~MW-11A~~				Water																		
~~MW-12A~~				Water																		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify): level II

Special Instructions/QC Requirements: 7470A - only mercury

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	05.15.20	0920
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing TestAmerica

Loc: 680
183870

Client Information	Sampler: JL, WLG, STR	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113805-43640
Client Contact: Ben Smith	Phone: 713-522-6300	E-Mail: willie.hallmon@testamericainc.com		Page: Page 3 of 3
Company: GSI Environmental, Inc				Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days): standard			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 45008622			
Email: WBSmith@gsi-net.com	WO #:			
Project Name: Anniston RCRA April 2020	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B - 8141	8270D - 8270 SVOCs	6010C - 6010 Metals	8260B - 8260 VOCs	8081B_8082A - 8082 PCBs	8260B - 8260 Trip Blanks	8270D - 4-NP/ooo-TEPP	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered	6010C, 7470A					Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	D	A	N	A	N	N	D						
~~MW-19A~~				Water																	
MW-15F (Field Filtered)	5/13/20	10:34	G	Water	Y	N			X		[redacted]			X	X					3	cobalt (6010)
MW-16F (Field Filtered)	5/13/20	13:28	G	Water	Y	N			X		[redacted]			X	X					3	cobalt (6010)
~~OW-22 (Field Filtered)~~				Water																	
~~MW-08A (Field Filtered)~~				Water																	
OW-19F (Field Filtered)	5/13/20	16:21	G	Water	Y	N			X					X	X					3	cobalt (6010)
OW-16AF (Field Filtered)	5/13/20	16:29	G	Water	Y	N			X					X	X					3	cobalt + manganese (6010)
~~OW-21A (Field Filtered)~~				Water																	
MW-20AF (Field Filtered)	5/13/20	10:21	G	Water	Y	N					[redacted]			X						2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify): Level II

Special Instructions/QC Requirements: 7470A - only Mercury

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
			[signature]	05-15-20 0720	
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-611289.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: willie.hallmon@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Alabama		Job #: 680-183870-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 5/27/2020			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Anniston RCRA April 2020	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

680-183870 Chain of Custody

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion/Sulfotepp	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X		X	
MW-15 (680-183870-1)	5/13/20	10:34 Central		Water			X	2	
MW-16 (680-183870-2)	5/13/20	13:28 Central		Water			X	2	
OW-15 (680-183870-3)	5/13/20	16:21 Central		Water			X	2	
MW-20A (680-183870-4)	5/13/20	10:21 Central		Water			X	2	
MW-20A MS (680-183870-4MS)	5/13/20	10:21 Central	MS	Water			X	2	
MW-20A MSD (680-183870-4MSD)	5/13/20	10:21 Central	MSD	Water			X	2	
OW-16A (680-183870-5)	5/13/20	16:29 Central		Water			X	2	
FIELD DUPLICATE 1 (680-183870-6)	5/13/20	Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	5-15 20 1600	TA		5/16/20 1000	ETADEW
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 1163979 / 1163978 | Cooler Temperature(s) °C and Other Remarks: 2.9, 2.6, IR8, +0.6, DS, 5/16/20

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-183870-1
SDG Number: ANST183870

Login Number: 183870
List Number: 1
Creator: Banda, Christy S

List Source: Eurofins TestAmerica, Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-183870-1
SDG Number: ANST183870

Login Number: 183870
List Number: 2
Creator: Schade, Daniel B

List Source: Eurofins TestAmerica, Denver
List Creation: 05/16/20 01:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: RCRA Groundwater Monitoring Project Number: 680-183870-2
Reviewer: Ben Smith Validation Date: 24 November 2020

Laboratory: Eurofins TestAmerica Savannah SDG #: ANST183870
Analytical Method (type and no.): SVOCS (8270D SIM)
Matrix: ☐ Air ☐ Soil/Sed. ☐ Water ☐ Waste ☐ _____
Sample Names: MW-20A, FIELD DUPLICATE 1

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	YES	NO	NA	COMMENTS
a) Sampling dates noted?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	See COC discussion below
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	See COC discussion below
f) Field QC noted?	☒	☐	☐	FIELD DUPLICATE 1
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Turbidimeter calibrated marginally low for 0-10 NTU range on 5/13/20. Purging logs indicate adequate stabilization of all parameters, including turbidity. Turbidity in MW-15, MW-16, and OW-16A may be biased low, but no analytical data are qualified on this basis.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☒	☐	☐	

Note Deficiencies: Internal standard recoveries were high since 8270 SIM was added to the login after the extracts had already been spiked and analyzed for 8270D. Correct ISTD concentrations were accounted for and the final results were calculated correctly, so no qualification is required.

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	☐	☒	☐	Contingent 8270D SIM was not requested for Pentachlorophenol (PCP) pending non-detect PCP results from standard 8270D on the COC for report 680-183870-1, but the lab was later instructed to add this contingent analysis upon review of lab login. This standalone report 680-183870-2 presents results for 8270D SIM for PCP.
b) Was the COC signed by both field and laboratory personnel?	☐	☐	☒	See COC discussion above
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☐	☒	☐	
g) Were any matrix problems noted?	☐	☒	☐	

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☐	☒	☐	
b) Were the proper compounds included in the LCS?	☐	☐	☒	
c) Was the LCS accuracy criteria met?	☐	☐	☒	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				Original – MW-20A
	☒	☐	☐	Duplicate – FIELD DUPLICATE 1
b) Were field dup. precision criteria met (note RPD)?	☒	☐	☐	MW-20A: PCP = 25.6%
c) Were lab duplicates analyzed (note original and duplicate samples)?				
	☐	☒	☐	
d) Were lab dup. precision criteria met (note RPD)?	☐	☐	☒	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☒	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☐	☒	
b) Were surrogate recoveries not calculated due to dilutions?	☐	☐	☒	

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: Wade Benjamin Smith Date: 24 November 2020

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-183870-2
Laboratory Sample Delivery Group: ANST183870
Client Project/Site: Anniston RCRA April 2020

For:
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Attn: Ben Smith

Amy Weinberg

Authorized for release by:
6/10/2020 4:05:13 PM

Amy Weinberg, Project Manager II
(813)885-7427
amy.weinberg@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-2
SDG: ANST183870

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 680-183870-2

Laboratory: Eurofins TestAmerica, Savannah

Narrative

Job Narrative
680-183870-2

Comments
No additional comments.

Receipt
The samples were received on 5/15/2020 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 1.2º C, 1.8º C, 3.0º C, 3.0º C, 3.6º C and 4.9º C.

GC/MS Semi VOA
Method 8270D SIM: Internal standard (ISTD) recoveries for the following samples were high due to 8270 SIM being added to the login after the extracts had already been spiked and analyzed for 8270D. The correct ISTD concentration has been accounted for and the final results are calculated correctly.

MW-20A (680-183870-4), FIELD DUPLICATE 1 (680-183870-6) and (MB 680-619347/18-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-2
SDG: ANST183870

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-183870-4	MW-20A	Water	05/13/20 10:21	05/15/20 09:20	
680-183870-6	FIELD DUPLICATE 1	Water	05/13/20 00:00	05/15/20 09:20	

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-2
SDG: ANST183870

Client Sample ID: MW-20A — Lab Sample ID: 680-183870-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	8.5	*3	1.0	0.98	ug/L	1		8270D SIM	Total/NA

Client Sample ID: FIELD DUPLICATE 1 — Lab Sample ID: 680-183870-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	11	*3	1.0	0.95	ug/L	1		8270D SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-20A

Lab Sample ID: 680-183870-4

Date Collected: 05/13/20 10:21
Matrix: Water
Date Received: 05/15/20 09:20

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	8.5	*3	1.0	0.98	ug/L		05/20/20 16:09	06/04/20 19:55	1

Client Sample ID: FIELD DUPLICATE 1

Lab Sample ID: 680-183870-6

Date Collected: 05/13/20 00:00
Matrix: Water
Date Received: 05/15/20 09:20

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	11	*3	1.0	0.95	ug/L		05/20/20 16:09	06/04/20 20:19	1

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-2
SDG: ANST183870

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 680-619347/18-A
Matrix: Water
Analysis Batch: 621396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<1.0	*3	1.0	1.0	ug/L		05/20/20 16:09	06/04/20 19:31	1

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-2
SDG: ANST183870

GC/MS Semi VOA

Prep Batch: 619347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-4	MW-20A	Total/NA	Water	3520C	
680-183870-6	FIELD DUPLICATE 1	Total/NA	Water	3520C	
MB 680-619347/18-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 621396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183870-4	MW-20A	Total/NA	Water	8270D SIM	619347
680-183870-6	FIELD DUPLICATE 1	Total/NA	Water	8270D SIM	619347
MB 680-619347/18-A	Method Blank	Total/NA	Water	8270D SIM	619347

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-2
SDG: ANST183870

Client Sample ID: MW-20A
Date Collected: 05/13/20 10:21
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1024.6 mL	1 mL	619347	05/20/20 16:09	EHS	TAL SAV
Total/NA	Analysis	8270D SIM		1			621396	06/04/20 19:55	CEH	TAL SAV
	Instrument ID: CMSAE									

Client Sample ID: FIELD DUPLICATE 1
Date Collected: 05/13/20 00:00
Date Received: 05/15/20 09:20

Lab Sample ID: 680-183870-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1051.6 mL	1 mL	619347	05/20/20 16:09	EHS	TAL SAV
Total/NA	Analysis	8270D SIM		1			621396	06/04/20 20:19	CEH	TAL SAV
	Instrument ID: CMSAE									

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-2
SDG: ANST183870

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-20

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183870-2
SDG: ANST183870

Method	Method Description	Protocol	Laboratory
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SAV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-183870-2
SDG Number: ANST183870

Login Number: 183870
List Number: 1
Creator: Banda, Christy S

List Source: Eurofins TestAmerica, Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg

Project Name: CERCLA Groundwater Monitoring Project Number: 680-183934-1

Reviewer: Ben Smith Validation Date: 24 November 2020

Laboratory: Eurofins TestAmerica Savannah, Eurofins Lancaster SDG #: ANST183934

Analytical Method (type and no.): VOCs (8260B), PCBs (8081B/8082A), PCB Homologs (680)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____

Sample Names: OW-10, Field Duplicate 4, OW-10F, Field Duplicate 4 F, OWR-03S, OWR-15D, T-06, OWR-11, WEL-01, WEL-04, OWR-13, T-18, OWR-14D, FIELD DUPLICATE 2, TRIP BLANK 20200515, OWR-11 F, WEL-01 F, WEL-04 F, OWR-13 F, T-18 F, OWR-14D F, Field Duplicate 2 F, OWR-15D F, T-06 F, OW-10 MS, OW-10 MSD

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	**YES**	**NO**	**NA**	**COMMENTS**
a) Sampling dates noted?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	FIELD DUPLICATE 2 (@OWR-14D), Field Duplicate 2F (@OWR-14D), Field Duplicate 4 (@OW-10), Field Duplicate 4F (@OW-10), MS/MSD (@ OW-10), and TRIP BLANK 20200515 collected.
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☒	☐	☐	
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	

Note Deficiencies: _____

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☐	☒	☐	Not signed by Field Personnel
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Were the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☐	☒	☐	Reporting limit for PCB-1248 in OWR-11 was elevated due to dilution.
f) Were any sample dilutions noted?	☒	☐	☐	Yes, for selected Aroclors (8081B/8082A) in OWR-11 (DF=50), OWR-15D (DF=10), T-18 (DF=10), and OWR-13 (DF=10); also for selected PCB Homologs (680) in T-18 (DF=20) and OWR-13 (DF=10).
g) Were any matrix problems noted?	☒	☐	☐	See discussion of surrogate recovery in MS/MSD below.

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☒	☐	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	☒	☐	☐	Original-OWR-14D, Duplicate- FIELD DUPLICATE 2, Original – OWR-14D F, Duplicate- Field Duplicate 2F; Original- OW-10, Duplicate- Field Duplicate 4; Original – OW-10 F, Duplicate- Field Duplicate 4F
b) Were field dup. precision criteria met (note RPD)?	☐	☒	☐	OWR-14D: PCB-1248 = Not Calculated (Original = ND & Duplicate = 4 ug/L), TriCBs = 17.5%, TetraCBs = 17.4%, PentaCBs = 0%; OW-10: TCE = 31.3%
c) Were lab duplicates analyzed (note original and duplicate samples)?	☒	☐	☐	Multiple LCSDs. All RPD ≤ 15%
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☒	☐	☐	

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits? and MSD samples (collected at OW-10) for 8260B	☐	☒	☐	High 4-BFB recovery in Method Blank, MS,
b) Were surrogate recoveries not calculated due to dilutions?	☐	☒	☐	

Comments/Notes:
Qualify detections of TCE in OW-10 and Field Duplicate 4 as estimated (J) due to high surrogate (BFB) recovery in associated samples. Qualify non-detect in OWR-14D and detection in Field Duplicate 2 for PCB-1248 as estimated (UJ, J respectively) since RPD was not calculated.

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
OW-10	TCE	3.5 ug/L	J	High BFB surrogate recovery in MB, MS, and MSD.
Field Duplicate 4	TCE	4.8 ug/L	J	High BFB surrogate recovery in MB, MS, and MSD.
OWR-14D	PCB-1248	<0.5 ug/L	UJ	RPD between original (ND) and duplicate not calculated.
Field Duplicate 2	PCB-1248	4.0 ug/L	J	RPD between original (ND) and duplicate not calculated.

Signature: Wade Benjamin Smith Date: 24 November 2020

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg

Project Name: CERCLA Groundwater Monitoring Project Number: 680-183934-1

Reviewer: Ben Smith Validation Date: 24 November 2020

Laboratory: Eurofins TestAmerica Savannah SDG #: ANST183934

Analytical Method (type and no.): Metals (6010C), Mercury (7470A)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____

Sample Names: OW-10, Field Duplicate 4, OW-10F, Field Duplicate 4 F, OWR-11, WEL-01, WEL-04, OWR-13, T-18, OWR-14D, FIELD DUPLICATE 2, TRIP BLANK 20200515, OWR-11 F, WEL-01 F, WEL-04 F, OWR-13 F, T-18 F, OWR-14D F, Field Duplicate 2 F, OW-10 MS, OW-10 MSD

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	**YES**	**NO**	**NA**	**COMMENTS**
a) Sampling dates noted?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	FIELD DUPLICATE 2 (@OWR-14D), Field Duplicate 2F (@OWR-14D), Field Duplicate 4 (@OW-10), Field Duplicate 4F (@OW-10), and MS/MSD (@ OW-10) collected.
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☒	☐	☐	
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	

Note Deficiencies: _____

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☐	☒	☐	Not signed by Field Personnel
c) Were samples received in good condition?	☒	☐	☐	

General (reference QAPP or Method)	**YES**	**NO**	**NA**	**COMMENTS**
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☐	☒	☐	Elevated RL for Hg in OW-10 due to dilution
f) Were any sample dilutions noted?	☒	☐	☐	Dilution for Hg in OW-10; DF=5
g) Were any matrix problems noted?	☐	☒	☐	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	☒	☐	☐	Original-OWR-14D, Duplicate- FIELD DUPLICATE 2, Original – OWR-14D F, Duplicate- Field Duplicate 2F; Original- OW-10, Duplicate- Field Duplicate 4; Original – OW-10 F, Duplicate- Field Duplicate 4F
b) Were field dup. precision criteria met (note RPD)?	☒	☐	☐	OWR-14D: Mn = 11.3%; OW-10: Mn = 0.0%, Hg = 8.2%; OW-10F: Mn = 8.0%, Hg = 14.6%
c) Were lab duplicates analyzed (note original and duplicate samples)?	☐	☒	☐	
d) Were lab dup. precision criteria met (note RPD)?	☐	☐	☒	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☒	☐	☐	Control limits for Hg not applicable because analyte present in the original sample is > 4X the MS concentration.
b) Was MSD accuracy criteria met?	☐	☒	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☒	☐	☐	Control limits for Hg not applicable because analyte present in the original sample is > 4X the MS concentration.
c) Were MS/MSD precision criteria met?	☒	☐	☐	

Comments/Notes:

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: Wade Benjamin Smith Date: 24 November 2020

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ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-183934-1
Laboratory Sample Delivery Group: ANST183934
Client Project/Site: Anniston CERCLA April 2020
Revision: 1

For:
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Attn: Ben Smith

Amy Weinberg

Authorized for release by:
7/16/2020 2:12:19 PM

Amy Weinberg, Project Manager II
(813)885-7427
amy.weinberg@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate recovery exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2020

Job ID: 680-183934-1
SDG: ANST183934

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-183934-1	OW-10	Water	05/15/20 11:41	05/16/20 09:00	
680-183934-2	Field Duplicate 4	Water	05/15/20 00:00	05/16/20 09:00	
680-183934-3	OW-10 F	Water	05/15/20 11:41	05/16/20 09:00	
680-183934-4	Field Duplicate 4 F	Water	05/15/20 00:00	05/16/20 09:00	
680-183934-5	OWR-03S	Water	05/14/20 11:56	05/16/20 09:00	
680-183934-6	OWR-15D	Water	05/15/20 09:22	05/16/20 09:00	
680-183934-7	T-06	Water	05/14/20 17:38	05/16/20 09:00	
680-183934-8	OWR-11	Water	05/15/20 12:04	05/16/20 09:00	
680-183934-9	WEL-01	Water	05/15/20 15:13	05/16/20 09:00	
680-183934-10	WEL-04	Water	05/14/20 11:17	05/16/20 09:00	
680-183934-11	OWR-13	Water	05/14/20 17:26	05/16/20 09:00	
680-183934-12	T-18	Water	05/14/20 14:04	05/16/20 09:00	
680-183934-13	OWR-14D	Water	05/15/20 09:25	05/16/20 09:00	
680-183934-14	FIELD DUPLICATE 2	Water	05/15/20 00:00	05/16/20 09:00	
680-183934-15	TRIP BLANK 20200515	Water	05/15/20 00:00	05/16/20 09:00	
680-183934-16	OWR-11 F	Water	05/15/20 12:04	05/16/20 09:00	
680-183934-17	WEL-01 F	Water	05/15/20 15:13	05/16/20 09:00	
680-183934-18	WEL-04 F	Water	05/14/20 11:17	05/16/20 09:00	
680-183934-19	OWR-13 F	Water	05/14/20 17:26	05/16/20 09:00	
680-183934-20	T-18 F	Water	05/14/20 14:04	05/16/20 09:00	
680-183934-21	OWR-14D F	Water	05/14/20 09:25	05/16/20 09:00	
680-183934-22	Field Duplicate 2 F	Water	05/15/20 00:00	05/16/20 09:00	
680-183934-23	OWR-15D F	Water	05/15/20 09:22	05/16/20 09:00	
680-183934-24	T-06 F	Water	05/14/20 17:38	05/16/20 09:00	

Job ID: 680-183934-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

Job Narrative
680-183934-1

Comments
No additional comments.

Receipt
The samples were received on 5/16/2020 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 0.8º C, 1.6º C, 2.3º C, 2.4º C, 2.7º C, 2.8º C, 3.0º C and 5.3º C.

The report was revised on 7/16/2020 to report lower limits on PCB Homologues.

GC/MS VOA
Method 8260B: Surrogate recovery for the following sample was outside the upper control limit: (MB 680-620364/10). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: Surrogate recovery for the following samples were outside control limits: OW-10 MS (680-183934-1[MS]) and OW-10 MSD (680-183934-1[MSD]). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: OW-10

Date Collected: 05/15/20 11:41
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**3.5**		1.0	0.48	ug/L			05/29/20 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*05/29/20 20:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*05/29/20 20:21*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 122*		*05/29/20 20:21*	*1*
4-Bromofluorobenzene (Surr)	*120*		*80 - 120*		*05/29/20 20:21*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		05/29/20 16:59	06/04/20 20:38	1
PCB-1221	<0.50		0.50	0.092	ug/L		05/29/20 16:59	06/04/20 20:38	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 20:38	1
PCB-1242	<0.50		0.50	0.092	ug/L		05/29/20 16:59	06/04/20 20:38	1
PCB-1248	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/04/20 20:38	1
PCB-1254	<0.50		0.50	0.053	ug/L		05/29/20 16:59	06/04/20 20:38	1
PCB-1260	<0.50		0.50	0.058	ug/L		05/29/20 16:59	06/04/20 20:38	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*31*		*14 - 130*	*05/29/20 16:59*	*06/04/20 20:38*	*1*
Tetrachloro-m-xylene	*55*		*40 - 130*	*05/29/20 16:59*	*06/04/20 20:38*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.00010	mg/L		05/26/20 11:14	05/27/20 16:25	1
Manganese	**1.3**		0.010	0.0010	mg/L		05/26/20 11:14	05/27/20 16:25	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0051**	**F1**	0.00040	0.00040	mg/L		05/18/20 14:03	05/19/20 09:05	5

Client Sample ID: Field Duplicate 4

Date Collected: 05/15/20 00:00
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**4.8**		1.0	0.48	ug/L			05/29/20 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/29/20 17:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*73 - 131*		*05/29/20 17:51*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 122*		*05/29/20 17:51*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*05/29/20 17:51*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		05/29/20 16:59	06/04/20 20:52	1
PCB-1221	<0.50		0.50	0.092	ug/L		05/29/20 16:59	06/04/20 20:52	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 20:52	1
PCB-1242	<0.50		0.50	0.092	ug/L		05/29/20 16:59	06/04/20 20:52	1

Client Sample ID: Field Duplicate 4

Lab Sample ID: 680-183934-2

Date Collected: 05/15/20 00:00
Matrix: Water
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/04/20 20:52	1
PCB-1254	<0.50		0.50	0.054	ug/L		05/29/20 16:59	06/04/20 20:52	1
PCB-1260	<0.50		0.50	0.058	ug/L		05/29/20 16:59	06/04/20 20:52	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*32*		*14 - 130*	*05/29/20 16:59*	*06/04/20 20:52*	*1*
Tetrachloro-m-xylene	*65*		*40 - 130*	*05/29/20 16:59*	*06/04/20 20:52*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.00010	mg/L		05/26/20 11:14	05/27/20 17:30	1
Manganese	**1.3**		0.010	0.0010	mg/L		05/26/20 11:14	05/27/20 17:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0047**		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 22:09	1

Client Sample ID: OW-10 F

Lab Sample ID: 680-183934-3

Date Collected: 05/15/20 11:41
Matrix: Water
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/08/20 19:59	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 19:59	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 19:59	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 19:59	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 19:59	1
PCB-1254, Dissolved	<0.50		0.50	0.052	ug/L		05/29/20 16:59	06/08/20 19:59	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		05/29/20 16:59	06/08/20 19:59	1
PCB-1268, Dissolved	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/08/20 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*32*		*14 - 130*	*05/29/20 16:59*	*06/08/20 19:59*	*1*
Tetrachloro-m-xylene	*95*		*40 - 130*	*05/29/20 16:59*	*06/08/20 19:59*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium, Dissolved	<0.0040		0.0040	0.00010	mg/L		05/26/20 11:14	05/27/20 17:21	1
Manganese, Dissolved	**1.3**		0.010	0.0010	mg/L		05/26/20 11:14	05/27/20 17:21	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	**0.0044**		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 22:13	1

Client Sample ID: Field Duplicate 4 F

Lab Sample ID: 680-183934-4
Matrix: Water
Date Collected: 05/15/20 00:00
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/08/20 20:13	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 20:13	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 20:13	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 20:13	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 20:13	1
PCB-1254, Dissolved	<0.50		0.50	0.052	ug/L		05/29/20 16:59	06/08/20 20:13	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		05/29/20 16:59	06/08/20 20:13	1
PCB-1268, Dissolved	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/08/20 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*23*		*14 - 130*	*05/29/20 16:59*	*06/08/20 20:13*	*1*
Tetrachloro-m-xylene	*69*		*40 - 130*	*05/29/20 16:59*	*06/08/20 20:13*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium, Dissolved	<0.0040		0.0040	0.00010	mg/L		05/26/20 11:14	05/27/20 17:25	1
Manganese, Dissolved	**1.2**		0.010	0.0010	mg/L		05/26/20 11:14	05/27/20 17:25	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	**0.0038**		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 22:18	1

Client Sample ID: OWR-03S

Lab Sample ID: 680-183934-5
Matrix: Water
Date Collected: 05/14/20 11:56
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/04/20 21:06	1
PCB-1221	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/04/20 21:06	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 21:06	1
PCB-1242	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/04/20 21:06	1
PCB-1248	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/04/20 21:06	1
PCB-1254	<0.50		0.50	0.053	ug/L		05/29/20 16:59	06/04/20 21:06	1
PCB-1260	<0.50		0.50	0.058	ug/L		05/29/20 16:59	06/04/20 21:06	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*29*		*14 - 130*	*05/29/20 16:59*	*06/04/20 21:06*	*1*
Tetrachloro-m-xylene	*59*		*40 - 130*	*05/29/20 16:59*	*06/04/20 21:06*	*1*

Client Sample ID: OWR-15D

Lab Sample ID: 680-183934-6
Matrix: Water
Date Collected: 05/15/20 09:22
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/04/20 21:21	1
PCB-1221	**38**		0.91	0.91	ug/L		05/29/20 16:59	06/05/20 16:47	10
PCB-1232	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 21:21	1
PCB-1242	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/04/20 21:21	1

Client Sample ID: OWR-15D

Date Collected: 05/15/20 09:22
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-6

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/04/20 21:21	1
PCB-1254	<0.50		0.50	0.053	ug/L		05/29/20 16:59	06/04/20 21:21	1
PCB-1260	<0.50		0.50	0.057	ug/L		05/29/20 16:59	06/04/20 21:21	1
PCB-1268	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/04/20 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*30*		*14 - 130*	*05/29/20 16:59*	*06/04/20 21:21*	*1*
Tetrachloro-m-xylene	*105*	*p*	*40 - 130*	*05/29/20 16:59*	*06/04/20 21:21*	*1*

Client Sample ID: T-06

Date Collected: 05/14/20 17:38
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-7

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/04/20 21:35	1
PCB-1221	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/04/20 21:35	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 21:35	1
PCB-1242	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/04/20 21:35	1
PCB-1248	**3.1**		0.50	0.10	ug/L		05/29/20 16:59	06/04/20 21:35	1
PCB-1254	<0.50		0.50	0.052	ug/L		05/29/20 16:59	06/04/20 21:35	1
PCB-1260	<0.50		0.50	0.057	ug/L		05/29/20 16:59	06/04/20 21:35	1
PCB-1268	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/04/20 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*46*		*14 - 130*	*05/29/20 16:59*	*06/04/20 21:35*	*1*
Tetrachloro-m-xylene	*61*		*40 - 130*	*05/29/20 16:59*	*06/04/20 21:35*	*1*

Client Sample ID: OWR-11

Date Collected: 05/15/20 12:04
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-8

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/04/20 21:49	1
PCB-1221	**180**		4.5	4.5	ug/L		05/29/20 16:59	06/05/20 17:01	50
PCB-1232	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 21:49	1
PCB-1242	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/04/20 21:49	1
PCB-1248	<5.0		5.0	5.0	ug/L		05/29/20 16:59	06/05/20 17:01	50
PCB-1254	<0.50		0.50	0.053	ug/L		05/29/20 16:59	06/04/20 21:49	1
PCB-1260	<0.50		0.50	0.057	ug/L		05/29/20 16:59	06/04/20 21:49	1
PCB-1268	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/04/20 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*14 - 130*	*05/29/20 16:59*	*06/04/20 21:49*	*1*
Tetrachloro-m-xylene	*89*		*40 - 130*	*05/29/20 16:59*	*06/04/20 21:49*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	**0.16**		0.010	0.0010	mg/L		05/19/20 12:38	05/21/20 00:24	1
Manganese	**3.2**		0.010	0.0010	mg/L		05/19/20 12:38	05/21/20 00:24	1

Client Sample ID: WEL-01

Lab Sample ID: 680-183934-9

Date Collected: 05/15/20 15:13
Matrix: Water
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		05/29/20 16:59	06/04/20 22:04	1
PCB-1221	<0.50		0.50	0.092	ug/L		05/29/20 16:59	06/04/20 22:04	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 22:04	1
PCB-1242	<0.50		0.50	0.092	ug/L		05/29/20 16:59	06/04/20 22:04	1
PCB-1248	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/04/20 22:04	1
PCB-1254	**0.62**		0.50	0.053	ug/L		05/29/20 16:59	06/04/20 22:04	1
PCB-1260	<0.50		0.50	0.058	ug/L		05/29/20 16:59	06/04/20 22:04	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*54*		*14 - 130*	*05/29/20 16:59*	*06/04/20 22:04*	*1*
Tetrachloro-m-xylene	*67*		*40 - 130*	*05/29/20 16:59*	*06/04/20 22:04*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.021**		0.010	0.0010	mg/L		05/19/20 12:38	05/21/20 00:35	1

Client Sample ID: WEL-04

Lab Sample ID: 680-183934-10

Date Collected: 05/14/20 11:17
Matrix: Water
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/29/20 16:59	06/04/20 22:18	1
PCB-1221	<0.50		0.50	0.095	ug/L		05/29/20 16:59	06/04/20 22:18	1
PCB-1232	<0.50		0.50	0.13	ug/L		05/29/20 16:59	06/04/20 22:18	1
PCB-1242	<0.50		0.50	0.095	ug/L		05/29/20 16:59	06/04/20 22:18	1
PCB-1248	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/04/20 22:18	1
PCB-1254	<0.50		0.50	0.055	ug/L		05/29/20 16:59	06/04/20 22:18	1
PCB-1260	<0.50		0.50	0.060	ug/L		05/29/20 16:59	06/04/20 22:18	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*53*		*14 - 130*	*05/29/20 16:59*	*06/04/20 22:18*	*1*
Tetrachloro-m-xylene	*71*		*40 - 130*	*05/29/20 16:59*	*06/04/20 22:18*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.088**		0.010	0.0010	mg/L		05/19/20 12:38	05/21/20 00:40	1

Client Sample ID: OWR-13

Lab Sample ID: 680-183934-11

Date Collected: 05/14/20 17:26
Matrix: Water
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		05/29/20 16:59	06/04/20 22:32	1
PCB-1221	<0.50		0.50	0.092	ug/L		05/29/20 16:59	06/04/20 22:32	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 22:32	1
PCB-1242	<0.50		0.50	0.092	ug/L		05/29/20 16:59	06/04/20 22:32	1
PCB-1248	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/04/20 22:32	1

Client Sample ID: OWR-13

Lab Sample ID: 680-183934-11
Matrix: Water
Date Collected: 05/14/20 17:26
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	**43**		0.53	0.53	ug/L		05/29/20 16:59	06/05/20 17:15	10
PCB-1260	**5.4**		0.50	0.058	ug/L		05/29/20 16:59	06/04/20 22:32	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*14 - 130*	*05/29/20 16:59*	*06/04/20 22:32*	*1*
Tetrachloro-m-xylene	*66*		*40 - 130*	*05/29/20 16:59*	*06/04/20 22:32*	*1*

Client Sample ID: T-18

Lab Sample ID: 680-183934-12
Matrix: Water
Date Collected: 05/14/20 14:04
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		06/10/20 19:54	06/12/20 18:29	1
PCB-1221	**31**		0.90	0.90	ug/L		06/10/20 19:54	06/15/20 18:23	10
PCB-1232	<0.50		0.50	0.12	ug/L		06/10/20 19:54	06/12/20 18:29	1
PCB-1242	<0.50		0.50	0.090	ug/L		06/10/20 19:54	06/12/20 18:29	1
PCB-1248	<0.50		0.50	0.10	ug/L		06/10/20 19:54	06/12/20 18:29	1
PCB-1254	<0.50		0.50	0.052	ug/L		06/10/20 19:54	06/12/20 18:29	1
PCB-1260	<0.50		0.50	0.057	ug/L		06/10/20 19:54	06/12/20 18:29	1
PCB-1268	<0.50		0.50	0.11	ug/L		06/10/20 19:54	06/12/20 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*16*		*14 - 130*	*06/10/20 19:54*	*06/12/20 18:29*	*1*
Tetrachloro-m-xylene	*75*		*40 - 130*	*06/10/20 19:54*	*06/12/20 18:29*	*1*

Client Sample ID: OWR-14D

Lab Sample ID: 680-183934-13
Matrix: Water
Date Collected: 05/15/20 09:25
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		05/29/20 16:59	06/04/20 23:01	1
PCB-1221	<0.50		0.50	0.092	ug/L		05/29/20 16:59	06/04/20 23:01	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 23:01	1
PCB-1242	<0.50		0.50	0.092	ug/L		05/29/20 16:59	06/04/20 23:01	1
PCB-1248	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/04/20 23:01	1
PCB-1254	<0.50		0.50	0.053	ug/L		05/29/20 16:59	06/04/20 23:01	1
PCB-1260	<0.50		0.50	0.058	ug/L		05/29/20 16:59	06/04/20 23:01	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*35*		*14 - 130*	*05/29/20 16:59*	*06/04/20 23:01*	*1*
Tetrachloro-m-xylene	*58*		*40 - 130*	*05/29/20 16:59*	*06/04/20 23:01*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.025**		0.010	0.0010	mg/L		05/19/20 12:38	05/21/20 00:30	1

Client Sample ID: FIELD DUPLICATE 2

Lab Sample ID: 680-183934-14

Date Collected: 05/15/20 00:00
Matrix: Water
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/04/20 23:15	1
PCB-1221	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/04/20 23:15	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 23:15	1
PCB-1242	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/04/20 23:15	1
PCB-1248	**4.0**		0.50	0.10	ug/L		05/29/20 16:59	06/04/20 23:15	1
PCB-1254	<0.50		0.50	0.053	ug/L		05/29/20 16:59	06/04/20 23:15	1
PCB-1260	<0.50		0.50	0.058	ug/L		05/29/20 16:59	06/04/20 23:15	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*36*		*14 - 130*	*05/29/20 16:59*	*06/04/20 23:15*	*1*
Tetrachloro-m-xylene	*63*		*40 - 130*	*05/29/20 16:59*	*06/04/20 23:15*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.028**		0.010	0.0010	mg/L		05/20/20 13:17	05/21/20 23:27	1

Client Sample ID: TRIP BLANK 20200515

Lab Sample ID: 680-183934-15

Date Collected: 05/15/20 00:00
Matrix: Water
Date Received: 05/16/20 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.0		1.0	0.48	ug/L			05/29/20 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/29/20 13:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*73 - 131*		*05/29/20 13:44*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 122*		*05/29/20 13:44*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*05/29/20 13:44*	*1*

Client Sample ID: OWR-11 F

Lab Sample ID: 680-183934-16

Date Collected: 05/15/20 12:04
Matrix: Water
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/08/20 20:28	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 20:28	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 20:28	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 20:28	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 20:28	1
PCB-1254, Dissolved	<0.50		0.50	0.053	ug/L		05/29/20 16:59	06/08/20 20:28	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		05/29/20 16:59	06/08/20 20:28	1
PCB-1268, Dissolved	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/08/20 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*33*		*14 - 130*	*05/29/20 16:59*	*06/08/20 20:28*	*1*
Tetrachloro-m-xylene	*100*		*40 - 130*	*05/29/20 16:59*	*06/08/20 20:28*	*1*

Client Sample ID: OWR-11 F

Lab Sample ID: 680-183934-16
Matrix: Water
Date Collected: 05/15/20 12:04
Date Received: 05/16/20 09:00

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.16		0.010	0.0010	mg/L		05/19/20 12:38	05/21/20 00:46	1
Manganese, Dissolved	3.3		0.010	0.0010	mg/L		05/19/20 12:38	05/21/20 00:46	1

Client Sample ID: WEL-01 F

Lab Sample ID: 680-183934-17
Matrix: Water
Date Collected: 05/15/20 15:13
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/08/20 20:42	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		05/29/20 16:59	06/08/20 20:42	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 20:42	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		05/29/20 16:59	06/08/20 20:42	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 20:42	1
PCB-1254, Dissolved	<0.50		0.50	0.052	ug/L		05/29/20 16:59	06/08/20 20:42	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		05/29/20 16:59	06/08/20 20:42	1
PCB-1268, Dissolved	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/08/20 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*28*		*14 - 130*	*05/29/20 16:59*	*06/08/20 20:42*	*1*
Tetrachloro-m-xylene	*92*		*40 - 130*	*05/29/20 16:59*	*06/08/20 20:42*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	0.014		0.010	0.0010	mg/L		05/20/20 13:17	05/21/20 23:31	1

Client Sample ID: WEL-04 F

Lab Sample ID: 680-183934-18
Matrix: Water
Date Collected: 05/14/20 11:17
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.088	ug/L		05/29/20 16:59	06/08/20 20:56	1
PCB-1221, Dissolved	<0.50		0.50	0.093	ug/L		05/29/20 16:59	06/08/20 20:56	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 20:56	1
PCB-1242, Dissolved	<0.50		0.50	0.093	ug/L		05/29/20 16:59	06/08/20 20:56	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 20:56	1
PCB-1254, Dissolved	<0.50		0.50	0.054	ug/L		05/29/20 16:59	06/08/20 20:56	1
PCB-1260, Dissolved	<0.50		0.50	0.059	ug/L		05/29/20 16:59	06/08/20 20:56	1
PCB-1268, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*35*		*14 - 130*	*05/29/20 16:59*	*06/08/20 20:56*	*1*
Tetrachloro-m-xylene	*83*		*40 - 130*	*05/29/20 16:59*	*06/08/20 20:56*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	0.057		0.010	0.0010	mg/L		05/19/20 12:38	05/21/20 00:57	1

Client Sample ID: OWR-13 F

Lab Sample ID: 680-183934-19

Date Collected: 05/14/20 17:26
Matrix: Water
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/08/20 21:11	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 21:11	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 21:11	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 21:11	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 21:11	1
PCB-1254, Dissolved	<0.50		0.50	0.053	ug/L		05/29/20 16:59	06/08/20 21:11	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		05/29/20 16:59	06/08/20 21:11	1
PCB-1268, Dissolved	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/08/20 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*14 - 130*	*05/29/20 16:59*	*06/08/20 21:11*	*1*
Tetrachloro-m-xylene	*78*		*40 - 130*	*05/29/20 16:59*	*06/08/20 21:11*	*1*

Client Sample ID: T-18 F

Lab Sample ID: 680-183934-20

Date Collected: 05/14/20 14:04
Matrix: Water
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/08/20 21:25	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 21:25	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 21:25	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 21:25	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 21:25	1
PCB-1254, Dissolved	<0.50		0.50	0.053	ug/L		05/29/20 16:59	06/08/20 21:25	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		05/29/20 16:59	06/08/20 21:25	1
PCB-1268, Dissolved	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/08/20 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*20*		*14 - 130*	*05/29/20 16:59*	*06/08/20 21:25*	*1*
Tetrachloro-m-xylene	*50*		*40 - 130*	*05/29/20 16:59*	*06/08/20 21:25*	*1*

Client Sample ID: OWR-14D F

Lab Sample ID: 680-183934-21

Date Collected: 05/14/20 09:25
Matrix: Water
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.088	ug/L		05/29/20 16:59	06/08/20 21:40	1
PCB-1221, Dissolved	<0.50		0.50	0.092	ug/L		05/29/20 16:59	06/08/20 21:40	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 21:40	1
PCB-1242, Dissolved	<0.50		0.50	0.092	ug/L		05/29/20 16:59	06/08/20 21:40	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 21:40	1
PCB-1254, Dissolved	<0.50		0.50	0.054	ug/L		05/29/20 16:59	06/08/20 21:40	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		05/29/20 16:59	06/08/20 21:40	1
PCB-1268, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*27*		*14 - 130*	*05/29/20 16:59*	*06/08/20 21:40*	*1*
Tetrachloro-m-xylene	*85*		*40 - 130*	*05/29/20 16:59*	*06/08/20 21:40*	*1*

Client Sample ID: OWR-14D F

Lab Sample ID: 680-183934-21
Date Collected: 05/14/20 09:25
Matrix: Water
Date Received: 05/16/20 09:00

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	<0.010		0.010	0.0010	mg/L		05/19/20 12:38	05/21/20 00:51	1

Client Sample ID: Field Duplicate 2 F

Lab Sample ID: 680-183934-22
Date Collected: 05/15/20 00:00
Matrix: Water
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.088	ug/L		05/29/20 16:59	06/08/20 21:54	1
PCB-1221, Dissolved	<0.50		0.50	0.093	ug/L		05/29/20 16:59	06/08/20 21:54	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 21:54	1
PCB-1242, Dissolved	<0.50		0.50	0.093	ug/L		05/29/20 16:59	06/08/20 21:54	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 21:54	1
PCB-1254, Dissolved	<0.50		0.50	0.054	ug/L		05/29/20 16:59	06/08/20 21:54	1
PCB-1260, Dissolved	<0.50		0.50	0.059	ug/L		05/29/20 16:59	06/08/20 21:54	1
PCB-1268, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*27*		*14 - 130*	*05/29/20 16:59*	*06/08/20 21:54*	*1*
Tetrachloro-m-xylene	*91*		*40 - 130*	*05/29/20 16:59*	*06/08/20 21:54*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	<0.010		0.010	0.0010	mg/L		05/19/20 12:38	05/21/20 01:02	1

Client Sample ID: OWR-15D F

Lab Sample ID: 680-183934-23
Date Collected: 05/15/20 09:22
Matrix: Water
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/08/20 22:08	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 22:08	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 22:08	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 22:08	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 22:08	1
PCB-1254, Dissolved	<0.50		0.50	0.052	ug/L		05/29/20 16:59	06/08/20 22:08	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		05/29/20 16:59	06/08/20 22:08	1
PCB-1268, Dissolved	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/08/20 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*22*		*14 - 130*	*05/29/20 16:59*	*06/08/20 22:08*	*1*
Tetrachloro-m-xylene	*111*	*p*	*40 - 130*	*05/29/20 16:59*	*06/08/20 22:08*	*1*

Client Sample ID: T-06 F

Lab Sample ID: 680-183934-24
Date Collected: 05/14/20 17:38
Matrix: Water
Date Received: 05/16/20 09:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/08/20 22:22	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 22:22	1

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2020

Job ID: 680-183934-1
SDG: ANST183934

Client Sample ID: T-06 F
Date Collected: 05/14/20 17:38
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-24
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 22:22	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 22:22	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 22:22	1
PCB-1254, Dissolved	<0.50		0.50	0.053	ug/L		05/29/20 16:59	06/08/20 22:22	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		05/29/20 16:59	06/08/20 22:22	1
PCB-1268, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*31*		*14 - 130*	*05/29/20 16:59*	*06/08/20 22:22*	*1*
Tetrachloro-m-xylene	*88*		*40 - 130*	*05/29/20 16:59*	*06/08/20 22:22*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-620364/10
Matrix: Water
Analysis Batch: 620364

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.0		1.0	0.48	ug/L			05/29/20 13:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*05/29/20 13:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*05/29/20 13:17*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 122*		*05/29/20 13:17*	*1*
4-Bromofluorobenzene (Surr)	*121*	*X*	*80 - 120*		*05/29/20 13:17*	*1*

Lab Sample ID: LCS 680-620364/5
Matrix: Water
Analysis Batch: 620364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Trichloroethene			50.0	45.1		ug/L		90	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*
Dibromofluoromethane (Surr)	*90*		*80 - 122*
4-Bromofluorobenzene (Surr)	*120*		*80 - 120*

Lab Sample ID: LCSD 680-620364/6
Matrix: Water
Analysis Batch: 620364

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene			50.0	45.9		ug/L		92	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*86*		*73 - 131*
Dibromofluoromethane (Surr)	*89*		*80 - 122*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*

Lab Sample ID: 680-183934-1 MS
Matrix: Water
Analysis Batch: 620364

Client Sample ID: OW-10 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Trichloroethene	3.5		50.0	50.1		ug/L		93	80 - 123		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*
Dibromofluoromethane (Surr)	*91*		*80 - 122*
4-Bromofluorobenzene (Surr)	*128*	*X*	*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-183934-1 MSD
Matrix: Water
Analysis Batch: 620364

Client Sample ID: OW-10 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene	3.5		50.0	52.2		ug/L		98	80 - 123	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*87*		*73 - 131*
Dibromofluoromethane (Surr)	*90*		*80 - 122*
4-Bromofluorobenzene (Surr)	*126*	*X*	*80 - 120*

Lab Sample ID: MB 680-620373/10
Matrix: Water
Analysis Batch: 620373

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.0		1.0	0.48	ug/L			05/29/20 13:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/29/20 13:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*73 - 131*		*05/29/20 13:20*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 122*		*05/29/20 13:20*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*05/29/20 13:20*	*1*

Lab Sample ID: LCS 680-620373/4
Matrix: Water
Analysis Batch: 620373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	46.0		ug/L		92	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*
Dibromofluoromethane (Surr)	*99*		*80 - 122*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 680-620373/5
Matrix: Water
Analysis Batch: 620373

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene	50.0	46.6		ug/L		93	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*
Dibromofluoromethane (Surr)	*102*		*80 - 122*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-620451/19-A

Matrix: Water
Analysis Batch: 621262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620451

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/29/20 16:59	06/04/20 20:09	1
PCB-1221	<0.50		0.50	0.095	ug/L		05/29/20 16:59	06/04/20 20:09	1
PCB-1232	<0.50		0.50	0.13	ug/L		05/29/20 16:59	06/04/20 20:09	1
PCB-1242	<0.50		0.50	0.095	ug/L		05/29/20 16:59	06/04/20 20:09	1
PCB-1248	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/04/20 20:09	1
PCB-1254	<0.50		0.50	0.055	ug/L		05/29/20 16:59	06/04/20 20:09	1
PCB-1260	<0.50		0.50	0.060	ug/L		05/29/20 16:59	06/04/20 20:09	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 20:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*88*		*14 - 130*	*05/29/20 16:59*	*06/04/20 20:09*	*1*
Tetrachloro-m-xylene	*76*		*40 - 130*	*05/29/20 16:59*	*06/04/20 20:09*	*1*

Lab Sample ID: LCS 680-620451/20-A

Matrix: Water
Analysis Batch: 621262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620451

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			3.00	2.74		ug/L		91	44 - 130		
PCB-1260			3.00	3.05		ug/L		102	35 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*88*		*14 - 130*
Tetrachloro-m-xylene	*80*		*40 - 130*

Lab Sample ID: 680-183934-1 MS

Matrix: Water
Analysis Batch: 621262

Client Sample ID: OW-10 MS
Prep Type: Total/NA
Prep Batch: 620451

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	<0.50		2.89	2.70		ug/L		93	44 - 130		
PCB-1260	<0.50		2.89	1.63		ug/L		56	35 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*29*		*14 - 130*
Tetrachloro-m-xylene	*64*		*40 - 130*

Lab Sample ID: 680-183934-1 MSD

Matrix: Water
Analysis Batch: 621262

Client Sample ID: OW-10 MSD
Prep Type: Total/NA
Prep Batch: 620451

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<0.50		2.89	2.82		ug/L		97	44 - 130	4	50
PCB-1260	<0.50		2.89	2.43		ug/L		84	35 - 130	40	50

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 680-183934-1 MSD
Matrix: Water
Analysis Batch: 621262

Client Sample ID: OW-10 MSD
Prep Type: Total/NA
Prep Batch: 620451

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*47*		*14 - 130*
Tetrachloro-m-xylene	*58*		*40 - 130*

Lab Sample ID: MB 680-620452/17-A
Matrix: Water
Analysis Batch: 621712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1221, Dissolved	<0.50		0.50	0.095	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1232, Dissolved	<0.50		0.50	0.13	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1242, Dissolved	<0.50		0.50	0.095	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1248, Dissolved	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1254, Dissolved	<0.50		0.50	0.055	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1268, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 19:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*14 - 130*	*05/29/20 16:59*	*06/08/20 19:16*	*1*
Tetrachloro-m-xylene	*88*		*40 - 130*	*05/29/20 16:59*	*06/08/20 19:16*	*1*

Lab Sample ID: LCS 680-620452/18-A
Matrix: Water
Analysis Batch: 621712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620452

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016, Dissolved			3.00	3.06		ug/L		102	44 - 130		
PCB-1260, Dissolved			3.00	3.56		ug/L		119	35 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*49*		*14 - 130*
Tetrachloro-m-xylene	*92*		*40 - 130*

Lab Sample ID: LCSD 680-620452/19-A
Matrix: Water
Analysis Batch: 621712

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 620452

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016, Dissolved			3.00	3.19		ug/L		106	44 - 130	4	30
PCB-1260, Dissolved			3.00	3.68		ug/L		123	35 - 130	3	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*56*		*14 - 130*
Tetrachloro-m-xylene	*86*		*40 - 130*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 680-621979/20-A
Matrix: Water
Analysis Batch: 622304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 621979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		06/10/20 19:54	06/12/20 17:17	1
PCB-1221	<0.50		0.50	0.095	ug/L		06/10/20 19:54	06/12/20 17:17	1
PCB-1232	<0.50		0.50	0.13	ug/L		06/10/20 19:54	06/12/20 17:17	1
PCB-1242	<0.50		0.50	0.095	ug/L		06/10/20 19:54	06/12/20 17:17	1
PCB-1248	<0.50		0.50	0.11	ug/L		06/10/20 19:54	06/12/20 17:17	1
PCB-1254	<0.50		0.50	0.055	ug/L		06/10/20 19:54	06/12/20 17:17	1
PCB-1260	<0.50		0.50	0.060	ug/L		06/10/20 19:54	06/12/20 17:17	1
PCB-1268	<0.50		0.50	0.12	ug/L		06/10/20 19:54	06/12/20 17:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*49*		*14 - 130*	*06/10/20 19:54*	*06/12/20 17:17*	*1*
Tetrachloro-m-xylene	*77*		*40 - 130*	*06/10/20 19:54*	*06/12/20 17:17*	*1*

Lab Sample ID: LCS 680-621979/25-A
Matrix: Water
Analysis Batch: 622304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 621979

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			3.00	2.02		ug/L		67	44 - 130		
PCB-1260			3.00	2.84		ug/L		95	35 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*80*		*14 - 130*
Tetrachloro-m-xylene	*79*		*40 - 130*

Lab Sample ID: LCSD 680-621979/26-A
Matrix: Water
Analysis Batch: 622304

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 621979

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			3.00	2.35		ug/L		78	44 - 130	15	30
PCB-1260			3.00	2.80		ug/L		93	35 - 130	1	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*78*		*14 - 130*
Tetrachloro-m-xylene	*81*		*40 - 130*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-619231/1-A
Matrix: Water
Analysis Batch: 619543

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 619231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		05/19/20 12:38	05/20/20 22:42	1
Cobalt, Dissolved	<0.010		0.010	0.0010	mg/L		05/19/20 12:38	05/20/20 22:42	1
Manganese	<0.010		0.010	0.0010	mg/L		05/19/20 12:38	05/20/20 22:42	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 680-619231/1-A
Matrix: Water
Analysis Batch: 619543

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 619231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	<0.010		0.010	0.0010	mg/L		05/19/20 12:38	05/20/20 22:42	1

Lab Sample ID: LCS 680-619231/2-A
Matrix: Water
Analysis Batch: 619543

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 619231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.0501	0.0517		mg/L		103	80 - 120
Cobalt, Dissolved	0.0501	0.0517		mg/L		103	80 - 120
Manganese	0.400	0.439		mg/L		110	80 - 120
Manganese, Dissolved	0.400	0.439		mg/L		110	80 - 120

Lab Sample ID: MB 680-619384/1-A
Matrix: Water
Analysis Batch: 619647

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 619384

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.010	0.0010	mg/L		05/20/20 13:17	05/21/20 22:36	1
Manganese, Dissolved	<0.010		0.010	0.0010	mg/L		05/20/20 13:17	05/21/20 22:36	1

Lab Sample ID: LCS 680-619384/2-A
Matrix: Water
Analysis Batch: 619647

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 619384

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.400	0.397		mg/L		99	80 - 120
Manganese, Dissolved	0.400	0.397		mg/L		99	80 - 120

Lab Sample ID: MB 680-619912/1-A
Matrix: Water
Analysis Batch: 620265

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 619912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.00010	mg/L		05/26/20 11:14	05/27/20 16:16	1
Beryllium, Dissolved	<0.0040		0.0040	0.00010	mg/L		05/26/20 11:14	05/27/20 16:16	1
Manganese	<0.010		0.010	0.0010	mg/L		05/26/20 11:14	05/27/20 16:16	1
Manganese, Dissolved	<0.010		0.010	0.0010	mg/L		05/26/20 11:14	05/27/20 16:16	1

Lab Sample ID: LCS 680-619912/2-A
Matrix: Water
Analysis Batch: 620265

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 619912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.0500	0.0532		mg/L		106	80 - 120
Beryllium, Dissolved	0.0500	0.0532		mg/L		106	80 - 120
Manganese	0.400	0.394		mg/L		98	80 - 120
Manganese, Dissolved	0.400	0.394		mg/L		98	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 680-183934-1 MS
Matrix: Water
Analysis Batch: 620265

Client Sample ID: OW-10 MS
Prep Type: Total Recoverable
Prep Batch: 619912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	<0.0040		0.0500	0.0561		mg/L		105	75 - 125
Manganese	1.3		0.400	1.69		mg/L		91	75 - 125

Lab Sample ID: 680-183934-1 MSD
Matrix: Water
Analysis Batch: 620265

Client Sample ID: OW-10 MSD
Prep Type: Total Recoverable
Prep Batch: 619912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	<0.0040		0.0500	0.0557		mg/L		104	75 - 125	1	20
Manganese	1.3		0.400	1.63		mg/L		77	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-619076/1-A
Matrix: Water
Analysis Batch: 619198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619076

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 20:20	1
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		05/18/20 12:46	05/18/20 20:20	1

Lab Sample ID: LCS 680-619076/2-A
Matrix: Water
Analysis Batch: 619198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00260		mg/L		104	80 - 120
Mercury, Dissolved	0.00250	0.00260		mg/L		104	80 - 120

Lab Sample ID: MB 680-619087/1-A
Matrix: Water
Analysis Batch: 619198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/18/20 14:03	05/18/20 23:31	1

Lab Sample ID: LCS 680-619087/2-A
Matrix: Water
Analysis Batch: 619198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00247		mg/L		99	80 - 120

Lab Sample ID: 680-183934-1 MS
Matrix: Water
Analysis Batch: 619198

Client Sample ID: OW-10 MS
Prep Type: Total/NA
Prep Batch: 619087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0051	F1	0.00100	0.00600	4	mg/L		88	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 680-183934-1 MSD
Matrix: Water
Analysis Batch: 619198

Client Sample ID: OW-10 MSD
Prep Type: Total/NA
Prep Batch: 619087

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0051	F1	0.00100	0.00563	4	mg/L		50	80 - 120	6	20

GC/MS VOA

Analysis Batch: 620364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-1	OW-10	Total/NA	Water	8260B	
MB 680-620364/10	Method Blank	Total/NA	Water	8260B	
LCS 680-620364/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-620364/6	Lab Control Sample Dup	Total/NA	Water	8260B	
680-183934-1 MS	OW-10 MS	Total/NA	Water	8260B	
680-183934-1 MSD	OW-10 MSD	Total/NA	Water	8260B	

Analysis Batch: 620373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-2	Field Duplicate 4	Total/NA	Water	8260B	
680-183934-15	TRIP BLANK 20200515	Total/NA	Water	8260B	
MB 680-620373/10	Method Blank	Total/NA	Water	8260B	
LCS 680-620373/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-620373/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 620451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-1	OW-10	Total/NA	Water	3520C	
680-183934-2	Field Duplicate 4	Total/NA	Water	3520C	
680-183934-5	OWR-03S	Total/NA	Water	3520C	
680-183934-6	OWR-15D	Total/NA	Water	3520C	
680-183934-7	T-06	Total/NA	Water	3520C	
680-183934-8	OWR-11	Total/NA	Water	3520C	
680-183934-9	WEL-01	Total/NA	Water	3520C	
680-183934-10	WEL-04	Total/NA	Water	3520C	
680-183934-11	OWR-13	Total/NA	Water	3520C	
680-183934-13	OWR-14D	Total/NA	Water	3520C	
680-183934-14	FIELD DUPLICATE 2	Total/NA	Water	3520C	
MB 680-620451/19-A	Method Blank	Total/NA	Water	3520C	
LCS 680-620451/20-A	Lab Control Sample	Total/NA	Water	3520C	
680-183934-1 MS	OW-10 MS	Total/NA	Water	3520C	
680-183934-1 MSD	OW-10 MSD	Total/NA	Water	3520C	

Prep Batch: 620452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-3	OW-10 F	Dissolved	Water	3520C	
680-183934-4	Field Duplicate 4 F	Dissolved	Water	3520C	
680-183934-16	OWR-11 F	Dissolved	Water	3520C	
680-183934-17	WEL-01 F	Dissolved	Water	3520C	
680-183934-18	WEL-04 F	Dissolved	Water	3520C	
680-183934-19	OWR-13 F	Dissolved	Water	3520C	
680-183934-20	T-18 F	Dissolved	Water	3520C	
680-183934-21	OWR-14D F	Dissolved	Water	3520C	
680-183934-22	Field Duplicate 2 F	Dissolved	Water	3520C	
680-183934-23	OWR-15D F	Dissolved	Water	3520C	
680-183934-24	T-06 F	Dissolved	Water	3520C	
MB 680-620452/17-A	Method Blank	Total/NA	Water	3520C	
LCS 680-620452/18-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-620452/19-A	Lab Control Sample Dup	Total/NA	Water	3520C	

GC Semi VOA

Analysis Batch: 621262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-1	OW-10	Total/NA	Water	8081B/8082A	620451
680-183934-2	Field Duplicate 4	Total/NA	Water	8081B/8082A	620451
680-183934-5	OWR-03S	Total/NA	Water	8081B/8082A	620451
680-183934-6	OWR-15D	Total/NA	Water	8081B/8082A	620451
680-183934-7	T-06	Total/NA	Water	8081B/8082A	620451
680-183934-8	OWR-11	Total/NA	Water	8081B/8082A	620451
680-183934-9	WEL-01	Total/NA	Water	8081B/8082A	620451
680-183934-10	WEL-04	Total/NA	Water	8081B/8082A	620451
680-183934-11	OWR-13	Total/NA	Water	8081B/8082A	620451
680-183934-13	OWR-14D	Total/NA	Water	8081B/8082A	620451
680-183934-14	FIELD DUPLICATE 2	Total/NA	Water	8081B/8082A	620451
MB 680-620451/19-A	Method Blank	Total/NA	Water	8081B/8082A	620451
LCS 680-620451/20-A	Lab Control Sample	Total/NA	Water	8081B/8082A	620451
680-183934-1 MS	OW-10 MS	Total/NA	Water	8081B/8082A	620451
680-183934-1 MSD	OW-10 MSD	Total/NA	Water	8081B/8082A	620451

Analysis Batch: 621432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-6	OWR-15D	Total/NA	Water	8081B/8082A	620451
680-183934-8	OWR-11	Total/NA	Water	8081B/8082A	620451
680-183934-11	OWR-13	Total/NA	Water	8081B/8082A	620451

Analysis Batch: 621712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-3	OW-10 F	Dissolved	Water	8081B/8082A	620452
680-183934-4	Field Duplicate 4 F	Dissolved	Water	8081B/8082A	620452
680-183934-16	OWR-11 F	Dissolved	Water	8081B/8082A	620452
680-183934-17	WEL-01 F	Dissolved	Water	8081B/8082A	620452
680-183934-18	WEL-04 F	Dissolved	Water	8081B/8082A	620452
680-183934-19	OWR-13 F	Dissolved	Water	8081B/8082A	620452
680-183934-20	T-18 F	Dissolved	Water	8081B/8082A	620452
680-183934-21	OWR-14D F	Dissolved	Water	8081B/8082A	620452
680-183934-22	Field Duplicate 2 F	Dissolved	Water	8081B/8082A	620452
680-183934-23	OWR-15D F	Dissolved	Water	8081B/8082A	620452
680-183934-24	T-06 F	Dissolved	Water	8081B/8082A	620452
MB 680-620452/17-A	Method Blank	Total/NA	Water	8081B/8082A	620452
LCS 680-620452/18-A	Lab Control Sample	Total/NA	Water	8081B/8082A	620452
LCSD 680-620452/19-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	620452

Prep Batch: 621979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-12	T-18	Total/NA	Water	3520C	
MB 680-621979/20-A	Method Blank	Total/NA	Water	3520C	
LCS 680-621979/25-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-621979/26-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 622304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-12	T-18	Total/NA	Water	8081B/8082A	621979
MB 680-621979/20-A	Method Blank	Total/NA	Water	8081B/8082A	621979
LCS 680-621979/25-A	Lab Control Sample	Total/NA	Water	8081B/8082A	621979

GC Semi VOA (Continued)

Analysis Batch: 622304 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-621979/26-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	621979

Analysis Batch: 622517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-12	T-18	Total/NA	Water	8081B/8082A	621979

Metals

Prep Batch: 619076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-2	Field Duplicate 4	Total/NA	Water	7470A	
680-183934-3	OW-10 F	Dissolved	Water	7470A	
680-183934-4	Field Duplicate 4 F	Dissolved	Water	7470A	
MB 680-619076/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-619076/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 619087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-1	OW-10	Total/NA	Water	7470A	
MB 680-619087/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-619087/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-183934-1 MS	OW-10 MS	Total/NA	Water	7470A	
680-183934-1 MSD	OW-10 MSD	Total/NA	Water	7470A	

Analysis Batch: 619198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-1	OW-10	Total/NA	Water	7470A	619087
680-183934-2	Field Duplicate 4	Total/NA	Water	7470A	619076
680-183934-3	OW-10 F	Dissolved	Water	7470A	619076
680-183934-4	Field Duplicate 4 F	Dissolved	Water	7470A	619076
MB 680-619076/1-A	Method Blank	Total/NA	Water	7470A	619076
MB 680-619087/1-A	Method Blank	Total/NA	Water	7470A	619087
LCS 680-619076/2-A	Lab Control Sample	Total/NA	Water	7470A	619076
LCS 680-619087/2-A	Lab Control Sample	Total/NA	Water	7470A	619087
680-183934-1 MS	OW-10 MS	Total/NA	Water	7470A	619087
680-183934-1 MSD	OW-10 MSD	Total/NA	Water	7470A	619087

Prep Batch: 619231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-8	OWR-11	Total Recoverable	Water	3005A	
680-183934-9	WEL-01	Total Recoverable	Water	3005A	
680-183934-10	WEL-04	Total Recoverable	Water	3005A	
680-183934-13	OWR-14D	Total Recoverable	Water	3005A	
680-183934-16	OWR-11 F	Dissolved	Water	3005A	
680-183934-18	WEL-04 F	Dissolved	Water	3005A	
680-183934-21	OWR-14D F	Dissolved	Water	3005A	
680-183934-22	Field Duplicate 2 F	Dissolved	Water	3005A	
MB 680-619231/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-619231/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Metals

Prep Batch: 619384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-14	FIELD DUPLICATE 2	Total Recoverable	Water	3005A	
680-183934-17	WEL-01 F	Dissolved	Water	3005A	
MB 680-619384/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-619384/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 619543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-8	OWR-11	Total Recoverable	Water	6010C	619231
680-183934-9	WEL-01	Total Recoverable	Water	6010C	619231
680-183934-10	WEL-04	Total Recoverable	Water	6010C	619231
680-183934-13	OWR-14D	Total Recoverable	Water	6010C	619231
680-183934-16	OWR-11 F	Dissolved	Water	6010C	619231
680-183934-18	WEL-04 F	Dissolved	Water	6010C	619231
680-183934-21	OWR-14D F	Dissolved	Water	6010C	619231
680-183934-22	Field Duplicate 2 F	Dissolved	Water	6010C	619231
MB 680-619231/1-A	Method Blank	Total Recoverable	Water	6010C	619231
LCS 680-619231/2-A	Lab Control Sample	Total Recoverable	Water	6010C	619231

Analysis Batch: 619647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-14	FIELD DUPLICATE 2	Total Recoverable	Water	6010C	619384
680-183934-17	WEL-01 F	Dissolved	Water	6010C	619384
MB 680-619384/1-A	Method Blank	Total Recoverable	Water	6010C	619384
LCS 680-619384/2-A	Lab Control Sample	Total Recoverable	Water	6010C	619384

Prep Batch: 619912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-1	OW-10	Total Recoverable	Water	3005A	
680-183934-2	Field Duplicate 4	Total Recoverable	Water	3005A	
680-183934-3	OW-10 F	Dissolved	Water	3005A	
680-183934-4	Field Duplicate 4 F	Dissolved	Water	3005A	
MB 680-619912/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-619912/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-183934-1 MS	OW-10 MS	Total Recoverable	Water	3005A	
680-183934-1 MSD	OW-10 MSD	Total Recoverable	Water	3005A	

Analysis Batch: 620265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183934-1	OW-10	Total Recoverable	Water	6010C	619912
680-183934-2	Field Duplicate 4	Total Recoverable	Water	6010C	619912
680-183934-3	OW-10 F	Dissolved	Water	6010C	619912
680-183934-4	Field Duplicate 4 F	Dissolved	Water	6010C	619912
MB 680-619912/1-A	Method Blank	Total Recoverable	Water	6010C	619912
LCS 680-619912/2-A	Lab Control Sample	Total Recoverable	Water	6010C	619912
680-183934-1 MS	OW-10 MS	Total Recoverable	Water	6010C	619912
680-183934-1 MSD	OW-10 MSD	Total Recoverable	Water	6010C	619912

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2020

Job ID: 680-183934-1
SDG: ANST183934

Client Sample ID: OW-10

Date Collected: 05/15/20 11:41
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	620364	05/29/20 20:21	SMP	TAL SAV
	Instrument ID: CMSA2									
Total/NA	Prep	3520C			1034.6 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621262	06/04/20 20:38	JCK	TAL SAV
	Instrument ID: CSGAA									
Total Recoverable	Prep	3005A			50 mL	50 mL	619912	05/26/20 11:14	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			620265	05/27/20 16:25	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619087	05/18/20 14:03	BCB	TAL SAV
Total/NA	Analysis	7470A		5			619198	05/19/20 09:05	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: Field Duplicate 4

Date Collected: 05/15/20 00:00
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	620373	05/29/20 17:51	SMP	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	3520C			1027.3 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621262	06/04/20 20:52	JCK	TAL SAV
	Instrument ID: CSGAA									
Total Recoverable	Prep	3005A			50 mL	50 mL	619912	05/26/20 11:14	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			620265	05/27/20 17:30	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619076	05/18/20 12:46	BCB	TAL SAV
Total/NA	Analysis	7470A		1			619198	05/18/20 22:09	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: OW-10 F

Date Collected: 05/15/20 11:41
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1047.8 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 19:59	JCK	TAL SAV
	Instrument ID: CSGJ									
Dissolved	Prep	3005A			50 mL	50 mL	619912	05/26/20 11:14	AJR	TAL SAV
Dissolved	Analysis	6010C		1			620265	05/27/20 17:21	BCB	TAL SAV
	Instrument ID: ICPE									
Dissolved	Prep	7470A			50 mL	50 mL	619076	05/18/20 12:46	BCB	TAL SAV
Dissolved	Analysis	7470A		1			619198	05/18/20 22:13	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: Field Duplicate 4 F

Lab Sample ID: 680-183934-4

Date Collected: 05/15/20 00:00
Matrix: Water
Date Received: 05/16/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1049.3 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 20:13	JCK	TAL SAV
	Instrument ID: CSGJ									
Dissolved	Prep	3005A			50 mL	50 mL	619912	05/26/20 11:14	AJR	TAL SAV
Dissolved	Analysis	6010C		1			620265	05/27/20 17:25	BCB	TAL SAV
	Instrument ID: ICPE									
Dissolved	Prep	7470A			50 mL	50 mL	619076	05/18/20 12:46	BCB	TAL SAV
Dissolved	Analysis	7470A		1			619198	05/18/20 22:18	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: OWR-03S

Lab Sample ID: 680-183934-5

Date Collected: 05/14/20 11:56
Matrix: Water
Date Received: 05/16/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1042.4 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621262	06/04/20 21:06	JCK	TAL SAV
	Instrument ID: CSGAA									

Client Sample ID: OWR-15D

Lab Sample ID: 680-183934-6

Date Collected: 05/15/20 09:22
Matrix: Water
Date Received: 05/16/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1045.4 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621262	06/04/20 21:21	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			1045.4 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		10			621432	06/05/20 16:47	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: T-06

Lab Sample ID: 680-183934-7

Date Collected: 05/14/20 17:38
Matrix: Water
Date Received: 05/16/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1048.5 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621262	06/04/20 21:35	JCK	TAL SAV
	Instrument ID: CSGAA									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2020

Job ID: 680-183934-1
SDG: ANST183934

Client Sample ID: OWR-11
Date Collected: 05/15/20 12:04
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1047 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621262	06/04/20 21:49	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			1047 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		50			621432	06/05/20 17:01	JCK	TAL SAV
	Instrument ID: CSGJ									
Total Recoverable	Prep	3005A			50 mL	50 mL	619231	05/19/20 12:38	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			619543	05/21/20 00:24	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: WEL-01
Date Collected: 05/15/20 15:13
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1028.9 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621262	06/04/20 22:04	JCK	TAL SAV
	Instrument ID: CSGAA									
Total Recoverable	Prep	3005A			50 mL	50 mL	619231	05/19/20 12:38	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			619543	05/21/20 00:35	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: WEL-04
Date Collected: 05/14/20 11:17
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			998.3 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621262	06/04/20 22:18	JCK	TAL SAV
	Instrument ID: CSGAA									
Total Recoverable	Prep	3005A			50 mL	50 mL	619231	05/19/20 12:38	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			619543	05/21/20 00:40	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: OWR-13
Date Collected: 05/14/20 17:26
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1036.2 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621262	06/04/20 22:32	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			1036.2 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		10			621432	06/05/20 17:15	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: T-18

Lab Sample ID: 680-183934-12

Date Collected: 05/14/20 14:04

Matrix: Water

Date Received: 05/16/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1051.3 mL	5 mL	621979	06/10/20 19:54	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			622304	06/12/20 18:29	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			1051.3 mL	5 mL	621979	06/10/20 19:54	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		10			622517	06/15/20 18:23	JCK	TAL SAV
	Instrument ID: CSGAA									

Client Sample ID: OWR-14D

Lab Sample ID: 680-183934-13

Date Collected: 05/15/20 09:25

Matrix: Water

Date Received: 05/16/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1033.1 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621262	06/04/20 23:01	JCK	TAL SAV
	Instrument ID: CSGAA									
Total Recoverable	Prep	3005A			50 mL	50 mL	619231	05/19/20 12:38	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			619543	05/21/20 00:30	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: FIELD DUPLICATE 2

Lab Sample ID: 680-183934-14

Date Collected: 05/15/20 00:00

Matrix: Water

Date Received: 05/16/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1043 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621262	06/04/20 23:15	JCK	TAL SAV
	Instrument ID: CSGAA									
Total Recoverable	Prep	3005A			50 mL	50 mL	619384	05/20/20 13:17	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			619647	05/21/20 23:27	BWR	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: TRIP BLANK 20200515

Lab Sample ID: 680-183934-15

Date Collected: 05/15/20 00:00

Matrix: Water

Date Received: 05/16/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	620373	05/29/20 13:44	SMP	TAL SAV
	Instrument ID: CMSC									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2020

Job ID: 680-183934-1
SDG: ANST183934

Client Sample ID: OWR-11 F

Date Collected: 05/15/20 12:04
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1047.1 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 20:28	JCK	TAL SAV
	Instrument ID: CSGJ									
Dissolved	Prep	3005A			50 mL	50 mL	619231	05/19/20 12:38	AJR	TAL SAV
Dissolved	Analysis	6010C		1			619543	05/21/20 00:46	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: WEL-01 F

Date Collected: 05/15/20 15:13
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1050.4 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 20:42	JCK	TAL SAV
	Instrument ID: CSGJ									
Dissolved	Prep	3005A			50 mL	50 mL	619384	05/20/20 13:17	AJR	TAL SAV
Dissolved	Analysis	6010C		1			619647	05/21/20 23:31	BWR	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: WEL-04 F

Date Collected: 05/14/20 11:17
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1025.3 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 20:56	JCK	TAL SAV
	Instrument ID: CSGJ									
Dissolved	Prep	3005A			50 mL	50 mL	619231	05/19/20 12:38	AJR	TAL SAV
Dissolved	Analysis	6010C		1			619543	05/21/20 00:57	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: OWR-13 F

Date Collected: 05/14/20 17:26
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1046.5 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 21:11	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: T-18 F
Date Collected: 05/14/20 14:04
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1043.8 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 21:25	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: OWR-14D F
Date Collected: 05/14/20 09:25
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1027.3 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 21:40	JCK	TAL SAV
	Instrument ID: CSGJ									
Dissolved	Prep	3005A			50 mL	50 mL	619231	05/19/20 12:38	AJR	TAL SAV
Dissolved	Analysis	6010C		1			619543	05/21/20 00:51	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: Field Duplicate 2 F
Date Collected: 05/15/20 00:00
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1024.7 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 21:54	JCK	TAL SAV
	Instrument ID: CSGJ									
Dissolved	Prep	3005A			50 mL	50 mL	619231	05/19/20 12:38	AJR	TAL SAV
Dissolved	Analysis	6010C		1			619543	05/21/20 01:02	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: OWR-15D F
Date Collected: 05/15/20 09:22
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1048.9 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 22:08	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: T-06 F
Date Collected: 05/14/20 17:38
Date Received: 05/16/20 09:00

Lab Sample ID: 680-183934-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1042.2 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 22:22	JCK	TAL SAV
	Instrument ID: CSGJ									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2020

Job ID: 680-183934-1
SDG: ANST183934

Laboratory References:

SC0103 = Eurofins Lancaster Laboratories Env LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2020

Job ID: 680-183934-1
SDG: ANST183934

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-20

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2020

Job ID: 680-183934-1
SDG: ANST183934

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
680	Polychlorinated Biphenyls by GCMS	EPA	SC0103
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
7470A	Preparation, Mercury	SW846	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

SC0103 = Eurofins Lancaster Laboratories Env LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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REVISED

ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

TestAmerica
4101 Shuffel Street NW
North Canton OH 44720

Report Date: July 14, 2020 12:28

Project: 680-183934-1

Account #: 01042
Group Number: 2100118
PO Number: 680-183934-1
State of Sample Origin: AL

Electronic Copy To TestAmerica Attn: Amy Weinberg

Respectfully Submitted,

Kay Hower

(717) 556-7364

A previous version of this report was generated on 06/05/2020 14:42.

To view our laboratory's current scopes of accreditation please go to https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/ . Historical copies may be requested through your project manager.

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REVISED

SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
OWR-13 F (680-183934-19) Filtered Water	05/14/2020 17:25	1317556

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Analysis Report

REVISED

Sample Description: OWR-13 F (680-183934-19) Filtered Water
680-183934-1

Project Name: 680-183934-1

Submittal Date/Time: 05/20/2020 10:15
Collection Date/Time: 05/14/2020 17:25

TestAmerica
ELLE Sample #: WW 1317556
ELLE Group #: 2100118
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	MRL	Dilution Factor
Total PCB Homologues	**EPA 680 November 1985**		**ug/l**	**ug/l**	
13729	Monochlorobiphenyls	27323-18-8	< 0.095	0.095	1
13729	Dichlorobiphenyls	25512-42-9	< 0.095	0.095	1
13729	Trichlorobiphenyls	25323-68-6	< 0.095	0.095	1
13729	Tetrachlorobiphenyls	26914-33-0	< 0.19	0.19	1
13729	Pentachlorobiphenyls	25429-29-2	< 0.19	0.19	1
13729	Hexachlorobiphenyls	26601-64-9	< 0.19	0.19	1
13729	Heptachlorobiphenyls	28655-71-2	< 0.29	0.29	1
13729	Octachlorobiphenyls	31472-83-0	< 0.29	0.29	1
13729	Nonachlorobiphenyls	53742-07-7	< 0.48	0.48	1
13729	Decachlorobiphenyls	2051-24-3	< 0.48	0.48	1

Labeled Compounds	**%Rec**	**Windows**
PCB 52 C13	78	41 - 100
PCB 138 C13	88	45 - 111

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Reporting Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*
S	*Saturation of detection signal*

Sample Comments

Sample was field filtered for PCB Homologs

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13729	PCB Homologues in Water	EPA 680 November 1985	1	20149007	05/31/2020 10:24	Angela D Sneeringer	1
13731	PCB Homologues in Water - SepF	EPA 680 November 1985	1	20149007	05/28/2020 08:10	Deborah M Zimmerman	1

REVISED

Quality Control Summary

Client Name: TestAmerica
Reported: 07/14/2020 12:28

Group Number: 2100118

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result ug/l	MRL ug/l
Batch number: 20149007	Sample number(s): 1317556	
Monochlorobiphenyls	< 0.10	0.10
Dichlorobiphenyls	< 0.10	0.10
Trichlorobiphenyls	< 0.10	0.10
Tetrachlorobiphenyls	< 0.20	0.20
Pentachlorobiphenyls	< 0.20	0.20
Hexachlorobiphenyls	< 0.20	0.20
Heptachlorobiphenyls	< 0.30	0.30
Octachlorobiphenyls	< 0.30	0.30
Nonachlorobiphenyls	< 0.50	0.50
Decachlorobiphenyls	< 0.50	0.50

OPR/OPRD

Analysis Name	OPR Spike Added ug/l	OPR Conc ug/l	OPRD Spike Added ug/l	OPRD Conc ug/l	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 20149007	Sample number(s): 1317556								
Monochlorobiphenyls	1.25	0.783	1.25	0.792	63	63	33-91	1	30
Dichlorobiphenyls	1.25	0.806	1.25	0.840	64	67	37-100	4	30
Trichlorobiphenyls	1.25	0.833	1.25	0.899	67	72	37-96	8	30
Tetrachlorobiphenyls	2.50	1.68	2.50	1.81	67	72	41-96	7	30
Pentachlorobiphenyls	2.50	2.08	2.50	2.18	83	87	49-111	5	30
Hexachlorobiphenyls	2.50	2.09	2.50	2.20	84	88	48-115	5	30
Heptachlorobiphenyls	3.75	3.30	3.75	3.46	88	92	47-115	5	30
Octachlorobiphenyls	3.75	3.46	3.75	3.63	92	97	50-115	5	30
Decachlorobiphenyls	6.25	7.04	6.25	7.43	113	119	52-119	5	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: TestAmerica
Reported: 07/14/2020 12:28

Group Number: 2100118

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PCB Homologues in Water
Batch number: 20149007

	PCB 52 C13	PCB 138 C13
1317556	78	88
Blank	65	80
OPR	75	86
OPRD	80	90
Limits:	41-100	45-111

*- Outside of specification
(1) The result for one or both determinations was less than five times the MRL.
(2) The unspiked result was more than four times the spike added.

1042 210018 B172556

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-611564.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: willie.hallmon@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Env LLC		Accreditations Required (See note): State Program - Alabama		Job #: 680-183934-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 5/28/2020			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Dissolved PCB Homologs - Field Filtered)/ Dissolved PCB Homologs - Field Filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
OWR-13 F (680-183934-19)	5/14/20	17:26 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	5/19/2020 1428				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 5/20/20 1015	Company EIE

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: N/A	Cooler Temperature(s) °C and Other Remarks: 2.7 \ 2.0

2 H/NR

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Sample Administration Receipt Documentation Log

Doc Log ID: 284972

Group Number(s): 210018

Client: EUROFINS TESTAMERICA, SAVANNA

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Date:	05/20/2020
Number of Packages:	2	Number of Projects:	2
State/Province of Origin:	AL		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	Total Trip Blank Qty:	0
Samples Chilled:	Yes	Air Quality Samples Present:	No
Paperwork Enclosed:	Yes		
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Jessenia Colon Martinez

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	2.7	DT	Pack/Wet	Y	Bagged	N
2	DT131	2.0	DT	Pack/Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T : 717-656-2300
F : 717-656-2681
www.lancasterlabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

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ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

TestAmerica
4101 Shuffel Street NW
North Canton OH 44720

Report Date: July 14, 2020 12:29

Project: 680-183934-1

Account #: 01042
Group Number: 2100119
PO Number: 680-183934-1
State of Sample Origin: AL

Electronic Copy To TestAmerica Attn: Amy Weinberg

Respectfully Submitted,

Kay Hower

Kay Hower

(717) 556-7364

A previous version of this report was generated on 06/09/2020 17:05.

To view our laboratory's current scopes of accreditation please go to https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/ . Historical copies may be requested through your project manager.



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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
OWR-13 (680-183934-11) Water	05/14/2020 17:26	1317557
T-18 (680-183934-12) Water	05/14/2020 14:04	1317558
OWR-14D (680-183934-13) Water	05/15/2020 09:25	1317559
FIELD DUPLICATE 2 (680-183934-14) Water	05/15/2020	1317560
T-18 F (680-183934-20) Filtered Water	05/14/2020 14:04	1317561
OWR-14D F (680-183934-21) Filtered Water	05/14/2020 09:25	1317562
Field Duplicate 2 F (680-183934-22) Filtered Water	05/15/2020	1317563

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

REVISED

Sample Description: OWR-13 (680-183934-11) Water
680-183934-1

Project Name: 680-183934-1

Submittal Date/Time: 05/20/2020 10:15
Collection Date/Time: 05/14/2020 17:26

TestAmerica
ELLE Sample #: WW 1317557
ELLE Group #: 2100119
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	MRL	Dilution Factor
Total PCB Homologues	**EPA 680 November 1985**		**ug/l**	**ug/l**	
13729	Monochlorobiphenyls	27323-18-8	< 0.095	0.095	1
13729	Dichlorobiphenyls	25512-42-9	< 0.095	0.095	1
13729	Trichlorobiphenyls	25323-68-6	0.81	0.095	1
13729	Tetrachlorobiphenyls	26914-33-0	27	1.9	10
13729	Pentachlorobiphenyls	25429-29-2	21	1.9	10
13729	Hexachlorobiphenyls	26601-64-9	5.3	0.19	1
13729	Heptachlorobiphenyls	28655-71-2	2.6	0.29	1
13729	Octachlorobiphenyls	31472-83-0	1.3	0.29	1
13729	Nonachlorobiphenyls	53742-07-7	0.51	0.48	1
13729	Decachlorobiphenyls	2051-24-3	< 0.48	0.48	1

Labeled Compounds	**%Rec**	**Windows**
PCB 52 C13	80	41 - 100
PCB 138 C13	91	45 - 111

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Reporting Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*
S	*Saturation of detection signal*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13729	PCB Homologues in Water	EPA 680 November 1985	1	20149007	05/31/2020 10:52	Angela D Sneeringer	1
13729	PCB Homologues in Water	EPA 680 November 1985	1	20149007	06/02/2020 16:53	Angela D Sneeringer	10
13731	PCB Homologues in Water - SepF	EPA 680 November 1985	1	20149007	05/28/2020 08:10	Deborah M Zimmerman	1

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Sample Description: T-18 (680-183934-12) Water
680-183934-1

Project Name: 680-183934-1

Submittal Date/Time: 05/20/2020 10:15
Collection Date/Time: 05/14/2020 14:04

TestAmerica
ELLE Sample #: WW 1317558
ELLE Group #: 2100119
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	MRL	Dilution Factor
Total PCB Homologues	**EPA 680 November 1985**		ug/l	ug/l	
13729	Monochlorobiphenyls	27323-18-8	67	1.9	20
13729	Dichlorobiphenyls	25512-42-9	23	1.9	20
13729	Trichlorobiphenyls	25323-68-6	1.4	0.095	1
13729	Tetrachlorobiphenyls	26914-33-0	< 0.19	0.19	1
13729	Pentachlorobiphenyls	25429-29-2	< 0.19	0.19	1
13729	Hexachlorobiphenyls	26601-64-9	< 0.19	0.19	1
13729	Heptachlorobiphenyls	28655-71-2	< 0.29	0.29	1
13729	Octachlorobiphenyls	31472-83-0	< 0.29	0.29	1
13729	Nonachlorobiphenyls	53742-07-7	< 0.48	0.48	1
13729	Decachlorobiphenyls	2051-24-3	< 0.48	0.48	1

Labeled Compounds	%Rec	Windows
PCB 52 C13	77	41 - 100
PCB 138 C13	81	45 - 111

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Reporting Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*
S	*Saturation of detection signal*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13729	PCB Homologues in Water	EPA 680 November 1985	1	20149007	05/31/2020 11:20	Angela D Sneeringer	1
13729	PCB Homologues in Water	EPA 680 November 1985	1	20149007	06/05/2020 20:41	Angela D Sneeringer	20
13731	PCB Homologues in Water - SepF	EPA 680 November 1985	1	20149007	05/28/2020 08:10	Deborah M Zimmerman	1

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Sample Description: **OWR-14D (680-183934-13) Water**
680-183934-1

Project Name: **680-183934-1**

Submittal Date/Time: 05/20/2020 10:15
Collection Date/Time: 05/15/2020 09:25

TestAmerica
ELLE Sample #: **WW 1317559**
ELLE Group #: **2100119**
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	MRL	Dilution Factor
Total PCB Homologues	**EPA 680 November 1985**		**ug/l**	**ug/l**	
13729	Monochlorobiphenyls	27323-18-8	< 0.096	0.096	1
13729	Dichlorobiphenyls	25512-42-9	< 0.096	0.096	1
13729	Trichlorobiphenyls	25323-68-6	0.73	0.096	1
13729	Tetrachlorobiphenyls	26914-33-0	0.68	0.19	1
13729	Pentachlorobiphenyls	25429-29-2	0.29	0.19	1
13729	Hexachlorobiphenyls	26601-64-9	< 0.19	0.19	1
13729	Heptachlorobiphenyls	28655-71-2	< 0.29	0.29	1
13729	Octachlorobiphenyls	31472-83-0	< 0.29	0.29	1
13729	Nonachlorobiphenyls	53742-07-7	< 0.48	0.48	1
13729	Decachlorobiphenyls	2051-24-3	< 0.48	0.48	1

Labeled Compounds	**%Rec**	**Windows**
PCB 52 C13	77	41 - 100
PCB 138 C13	88	45 - 111

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Reporting Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*
S	*Saturation of detection signal*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13729	PCB Homologues in Water	EPA 680 November 1985	1	20149007	05/31/2020 11:49	Angela D Sneeringer	1
13731	PCB Homologues in Water - SepF	EPA 680 November 1985	1	20149007	05/28/2020 08:10	Deborah M Zimmerman	1

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Sample Description: FIELD DUPLICATE 2 (680-183934-14) Water
680-183934-1

Project Name: 680-183934-1

Submittal Date/Time: 05/20/2020 10:15
Collection Date/Time: 05/15/2020

TestAmerica
ELLE Sample #: WW 1317560
ELLE Group #: 2100119
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	MRL	Dilution Factor
Total PCB Homologues	**EPA 680 November 1985**		**ug/l**	**ug/l**	
13729	Monochlorobiphenyls	27323-18-8	< 0.097	0.097	1
13729	Dichlorobiphenyls	25512-42-9	< 0.097	0.097	1
13729	Trichlorobiphenyls	25323-68-6	0.87	0.097	1
13729	Tetrachlorobiphenyls	26914-33-0	0.81	0.19	1
13729	Pentachlorobiphenyls	25429-29-2	0.29	0.19	1
13729	Hexachlorobiphenyls	26601-64-9	< 0.19	0.19	1
13729	Heptachlorobiphenyls	28655-71-2	< 0.29	0.29	1
13729	Octachlorobiphenyls	31472-83-0	< 0.29	0.29	1
13729	Nonachlorobiphenyls	53742-07-7	< 0.49	0.49	1
13729	Decachlorobiphenyls	2051-24-3	< 0.49	0.49	1

Labeled Compounds	**%Rec**	**Windows**
PCB 52 C13	74	41 - 100
PCB 138 C13	82	45 - 111

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Reporting Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*
S	*Saturation of detection signal*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13729	PCB Homologues in Water	EPA 680 November 1985	1	20149007	05/31/2020 12:17	Angela D Sneeringer	1
13731	PCB Homologues in Water - SepF	EPA 680 November 1985	1	20149007	05/28/2020 08:10	Deborah M Zimmerman	1

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Sample Description: T-18 F (680-183934-20) Filtered Water
680-183934-1

Project Name: 680-183934-1

Submittal Date/Time: 05/20/2020 10:15
Collection Date/Time: 05/14/2020 14:04

TestAmerica
ELLE Sample #: WW 1317561
ELLE Group #: 2100119
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	MRL	Dilution Factor
Total PCB Homologues	**EPA 680 November 1985**		**ug/l**	**ug/l**	
13729	Monochlorobiphenyls	27323-18-8	< 0.097	0.097	1
13729	Dichlorobiphenyls	25512-42-9	< 0.097	0.097	1
13729	Trichlorobiphenyls	25323-68-6	< 0.097	0.097	1
13729	Tetrachlorobiphenyls	26914-33-0	< 0.19	0.19	1
13729	Pentachlorobiphenyls	25429-29-2	< 0.19	0.19	1
13729	Hexachlorobiphenyls	26601-64-9	< 0.19	0.19	1
13729	Heptachlorobiphenyls	28655-71-2	< 0.29	0.29	1
13729	Octachlorobiphenyls	31472-83-0	< 0.29	0.29	1
13729	Nonachlorobiphenyls	53742-07-7	< 0.49	0.49	1
13729	Decachlorobiphenyls	2051-24-3	< 0.49	0.49	1

Labeled Compounds	**%Rec**	**Windows**
PCB 52 C13	62	41 - 100
PCB 138 C13	72	45 - 111

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Reporting Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*
S	*Saturation of detection signal*

Sample Comments

Sample was field filtered for PCB Homologs

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13729	PCB Homologues in Water	EPA 680 November 1985	1	20149007	05/31/2020 12:45	Angela D Sneeringer	1
13731	PCB Homologues in Water - SepF	EPA 680 November 1985	1	20149007	05/28/2020 08:10	Deborah M Zimmerman	1

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Analysis Report

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Sample Description: OWR-14D F (680-183934-21) Filtered Water
680-183934-1

Project Name: 680-183934-1

Submittal Date/Time: 05/20/2020 10:15
Collection Date/Time: 05/14/2020 09:25

TestAmerica
ELLE Sample #: WW 1317562
ELLE Group #: 2100119
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	MRL	Dilution Factor
Total PCB Homologues	**EPA 680 November 1985**		**ug/l**	**ug/l**	
13729	Monochlorobiphenyls	27323-18-8	< 0.095	0.095	1
13729	Dichlorobiphenyls	25512-42-9	< 0.095	0.095	1
13729	Trichlorobiphenyls	25323-68-6	< 0.095	0.095	1
13729	Tetrachlorobiphenyls	26914-33-0	< 0.19	0.19	1
13729	Pentachlorobiphenyls	25429-29-2	< 0.19	0.19	1
13729	Hexachlorobiphenyls	26601-64-9	< 0.19	0.19	1
13729	Heptachlorobiphenyls	28655-71-2	< 0.29	0.29	1
13729	Octachlorobiphenyls	31472-83-0	< 0.29	0.29	1
13729	Nonachlorobiphenyls	53742-07-7	< 0.48	0.48	1
13729	Decachlorobiphenyls	2051-24-3	< 0.48	0.48	1

Labeled Compounds	**%Rec**	**Windows**
PCB 52 C13	68	41 - 100
PCB 138 C13	78	45 - 111

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Reporting Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*
S	*Saturation of detection signal*

Sample Comments

Sample was field filtered for PCB Homologs

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13729	PCB Homologues in Water	EPA 680 November 1985	1	20149007	05/31/2020 13:14	Angela D Sneeringer	1
13731	PCB Homologues in Water - SepF	EPA 680 November 1985	1	20149007	05/28/2020 08:10	Deborah M Zimmerman	1

REVISED

Sample Description: Field Duplicate 2 F (680-183934-22) Filtered Water
680-183934-1

Project Name: 680-183934-1

Submittal Date/Time: 05/20/2020 10:15
Collection Date/Time: 05/15/2020

TestAmerica
ELLE Sample #: WW 1317563
ELLE Group #: 2100119
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	MRL	Dilution Factor
Total PCB Homologues	**EPA 680 November 1985**		**ug/l**	**ug/l**	
13729	Monochlorobiphenyls	27323-18-8	< 0.095	0.095	1
13729	Dichlorobiphenyls	25512-42-9	< 0.095	0.095	1
13729	Trichlorobiphenyls	25323-68-6	< 0.095	0.095	1
13729	Tetrachlorobiphenyls	26914-33-0	< 0.19	0.19	1
13729	Pentachlorobiphenyls	25429-29-2	< 0.19	0.19	1
13729	Hexachlorobiphenyls	26601-64-9	< 0.19	0.19	1
13729	Heptachlorobiphenyls	28655-71-2	< 0.29	0.29	1
13729	Octachlorobiphenyls	31472-83-0	< 0.29	0.29	1
13729	Nonachlorobiphenyls	53742-07-7	< 0.48	0.48	1
13729	Decachlorobiphenyls	2051-24-3	< 0.48	0.48	1

Labeled Compounds	**%Rec**	**Windows**
PCB 52 C13	73	41 - 100
PCB 138 C13	87	45 - 111

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Reporting Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*
S	*Saturation of detection signal*

Sample Comments

Sample was field filtered for PCB Homologs

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13729	PCB Homologues in Water	EPA 680 November 1985	1	20149007	05/31/2020 13:42	Angela D Sneeringer	1
13731	PCB Homologues in Water - SepF	EPA 680 November 1985	1	20149007	05/28/2020 08:10	Deborah M Zimmerman	1

REVISED

Quality Control Summary

Client Name: TestAmerica
Reported: 07/14/2020 12:29

Group Number: 2100119

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result ug/l	MRL ug/l
Batch number: 20149007	Sample number(s): 1317557-1317563	
Monochlorobiphenyls	< 0.10	0.10
Dichlorobiphenyls	< 0.10	0.10
Trichlorobiphenyls	< 0.10	0.10
Tetrachlorobiphenyls	< 0.20	0.20
Pentachlorobiphenyls	< 0.20	0.20
Hexachlorobiphenyls	< 0.20	0.20
Heptachlorobiphenyls	< 0.30	0.30
Octachlorobiphenyls	< 0.30	0.30
Nonachlorobiphenyls	< 0.50	0.50
Decachlorobiphenyls	< 0.50	0.50

OPR/OPRD

Analysis Name	OPR Spike Added ug/l	OPR Conc ug/l	OPRD Spike Added ug/l	OPRD Conc ug/l	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 20149007	Sample number(s): 1317557-1317563								
Monochlorobiphenyls	1.25	0.783	1.25	0.792	63	63	33-91	1	30
Dichlorobiphenyls	1.25	0.806	1.25	0.840	64	67	37-100	4	30
Trichlorobiphenyls	1.25	0.833	1.25	0.899	67	72	37-96	8	30
Tetrachlorobiphenyls	2.50	1.68	2.50	1.81	67	72	41-96	7	30
Pentachlorobiphenyls	2.50	2.08	2.50	2.18	83	87	49-111	5	30
Hexachlorobiphenyls	2.50	2.09	2.50	2.20	84	88	48-115	5	30
Heptachlorobiphenyls	3.75	3.30	3.75	3.46	88	92	47-115	5	30
Octachlorobiphenyls	3.75	3.46	3.75	3.63	92	97	50-115	5	30
Decachlorobiphenyls	6.25	7.04	6.25	7.43	113	119	52-119	5	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the MRL.
(2) The unspiked result was more than four times the spike added.

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

REVISED

Quality Control Summary

Client Name: TestAmerica
Reported: 07/14/2020 12:29

Group Number: 2100119

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PCB Homologues in Water
Batch number: 20149007

	PCB 52 C13	PCB 138 C13
1317557	80	91
1317558	77	81
1317559	77	88
1317560	74	82
1317561	62	72
1317562	68	78
1317563	73	87
Blank	65	80
OPR	75	86
OPRD	80	90
Limits:	41-100	45-111

*- Outside of specification
(1) The result for one or both determinations was less than five times the MRL.
(2) The unspiked result was more than four times the spike added.

1042 2100119 1317557-63

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-611561.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: willie.hallmon@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Env LLC		Accreditations Required (See note): State Program - Alabama		Job #: 680-183934-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 5/28/2020			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (PCB Homologs)/ PCB Homologs	SUB (Dissolved PCB Homologs- Field Filtered)/ Dissolved PCB Homologs- Field Filtered	SUB (Dissolved PCB Homologs - Field-Filtered)/ Dissolved PCB Homologs - Field-Filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
OWR-13 (680-183934-11)	5/14/20	17:26 Central		Water			X			2	
T-18 (680-183934-12)	5/14/20	14:04 Central		Water			X			2	
OWR-14D (680-183934-13)	5/15/20	09:25 Central		Water			X			2	
FIELD DUPLICATE 2 (680-183934-14)	5/15/20	Central		Water			X			2	
T-18 F (680-183934-20)	5/14/20	14:04 Central		Water				X		2	Samples are Field-Filtered
OWR-14D F (680-183934-21)	5/14/20	09:25 Central		Water					X	2	Samples areFfield-filtered
Field Duplicate 2 F (680-183934-22)	5/15/20	Central		Water					X	2	Samples areFfield-filtered

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	5-19-20 1600	TA			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	5/20/20 1015	EHE

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: N/A	Cooler Temperature(s) °C and Other Remarks: 2.7 | 2.0 2H/NR

210019

Bottle Order Information

Bottle Order:
Bottle Order #:
Request From Client: 5/19/2020
Date Order Posted:
Order Status: Ready To Process
Prepared By:
Deliver By Date: ***5/20/2020 11:59:00PM***
Lab Project Number:

Order Completion Information

Creator: Robert Sims
Filled by:
Sent Date:
Sent Via:
Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #

Notes to Field Staff:

Scan QR code for field sampler instructions

Health and Safety Notes:

Preservative Comment

Relinquished By	Company	Date	Time	Received By	Company	Seal #:
						Seal #:
						Seal #:
Relinquished By	Company	Date	Time	Received By	Company	Seal #:
		5/20/20	1015		DIE	Seal #:
						Seal #:

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.
Go to http://www.testamericainc.com/customer-support/specialized-instructions-for-field-samplers/ for field sampler instructions.

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 284972

Group Number(s): 2100119

Client: EUROFINS TESTAMERICA, SAVANNA

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Date:	05/20/2020
Number of Packages:	2	Number of Projects:	2
State/Province of Origin:	AL		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	No
Custody Seal Intact:	Yes	Total Trip Blank Qty:	0
Samples Chilled:	Yes	Air Quality Samples Present:	No
Paperwork Enclosed:	Yes		
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Jessenia Colon Martinez

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	2.7	DT	Pack/Wet	Y	Bagged	N
2	DT131	2.0	DT	Pack/Wet	Y	Bagged	N

Sample Date/Time Discrepancy Details

Sample ID on COC	Date/Time on Label	Comments
OWR-14D F (680-183934-21)	5/15/2020 09:25	

2425 New Holland Pike
Lancaster, PA 17605-2425
T : 717-656-2300
F : 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins
Environment Testing
TestAmerica

Client Information	Sampler: WRG, JL, STR	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113811-43642.1
Client Contact: Ms. Elaine Higgins	Phone: 713-522-6300	E-Mail: willie.hallmon@testamericainc.com		Page: Page 1 of 4
Company: GSI Environmental, Inc				Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days): standard			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel) wrgodwin@gsi-net.com	PO #: 0043964402(CERCLA)			
Email: eahiggins@gsi-net.com, wbsmith@gsi-net.com	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A - Mercury	8260B - Trichloroethene	8081B_8082A - PCB	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered	6010C - (MOD) Cobalt/Manganese	680 - PCB Homologs	6010C - Manganese + Beryllium	8141B - Parathion	8270D - (MOD) 4-NP	6010C - (MOD) Cobalt/Manganese- FF	680 - Dissolved PCB Homologs - Field Filtered	6010C - (MOD) Manganese - Field Filtered		Total Number of containers	Speci
			Preservation Code:				D	A	N	N	D	N	D	N	N	D	N	D			
OW-10	5/15/20	11:41	G	Water	N	N	X	X	X				X							6	
OW-10 MS	5/15/20	11:41	G	Water	N	Y	X	X	X				X							6	
OW-10 MSD	5/15/20	11:41	G	Water	N	Y	X	X	X				X							6	
Field Duplicate 4	5/15/20	[redacted]	G	Water	N	N	X	X	X				X							6	
OW-10 (Filtered)	5/15/20	11:41	G	Water	Y	N	X			X			X							3	
Field Duplicate 4 (Field Filtered)	5/15/20	—	G	Water	Y	N	X			X			X							3	
OWR-03S	5/14/20	11:56	G	Water	N	N			X											2	
OWR-15D	5/15/20	9:22	G	Water	N	N			X	[redacted]										2	
T-06	5/14/20	17:38	G	Water	N	N			X	[redacted]										2	
OWR-11	5/15/20	12.04	G	Water	N	N	[redacted]		X	[redacted]	X									3	
[redacted]				Water																	

680-183934 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify): Level II

Special Instructions/QC Requirements: 7470A-only mercury

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5/16/2020 0900	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.9/2.3 2.4/2.8 2.3/2.7 1.2/1.6 2.6/2.4 4.9/5.3 2.6/3.0 0.4/0.8

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: WRG, JL, STR	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113811-43642.2
Client Contact: Ms. Elaine Higgins	Phone: 7135226300	E-Mail: willie.hallmon@testamericainc.com		Page: Page 2 of 4
Company: GSI Environmental, Inc				Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days): Standard			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 0043964402(CERCLA)			
Email: eahiggins@gsi-net.com	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A	8260B - Trichloroethene, 1,2,4-TCB	8081B_8082A - PCB	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered	6010C - (MOD) Cobalt/Manganese	680 - PCB Homologs	6010C - Manganese	8141B - Parathion	8270D - (MOD) 4-NP	6010C - (MOD) Cobalt/Manganese - FF	680 - Dissolved PCB Homologs - Field Filtered	6010C - (MOD) Manganese - Field Filtered	8260B - Chlorobenzene	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N	D	N	D	N	N	D	N	D			
WEL-01	5/15/20	15:13	G	Water	N	N	[redacted]		X				X							3	
WEL-04	5/14/20	11:17	G	Water	N	N	[redacted]		X				X							3	
OWR-13	5/14/20	17:26	G	Water	N	N			X			X								4	
T-18	5/14/20	14:04	G	Water	N	N			X			X								4	
OWR-14D	5/15/20	9:25	G	Water	N	N	[redacted]		X			X	X							5	
FIELD DUPLICATE 2	5/15/20	[redacted]	G	Water	N	N	[redacted]		X			X	X							5	
[redacted]				Water																	
[redacted]				Water																	
[redacted]				Water																	
[redacted]				Water																	
TRIP BLANK #20200515	5/15/20	—	—	Water	N	N		X											X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify): Level II

Special Instructions/QC Requirements: 7470A-only mercury

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fedex

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time: 5/16/2020 0900	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.9/1.3 2.4/2.8 2.3/2.7 1.2/1.6 2.0/2.4 4.5/5.3 2.4/3.0 0.4/0.5

Ver: 01/16/2019

7/16/2020 (Rev. 1)

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler:	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113811-43642.3
Client Contact: Ms. Elaine Higgins	Phone:	E-Mail: willie.hallmon@testamericainc.com		Page: Page 3 of 4
Company: GSI Environmental, Inc				Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days):			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 0043964402(CERCLA)			
Email: eahiggins@gsi-net.com	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A D	8260B - Trichloroethene A	8081B_8082A - PCB N	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered N	6010C - (MOD) Cobalt/Manganese D	680 - PCB Homologs N	6010C - Manganese D	8141B - Parathion N	8270D - (MOD) 4-NP N	6010C - (MOD) Cobalt/Manganese- FF D	680 - Dissolved PCB Homologs - Field Filtered N	6010C - (MOD) Manganese - Field Filtered D	Total Number of containers	Special Instructions/Note:
Preservation Code:																				
[redacted]				Water																
OWR-11 (Filtered)	5/15/20	12:04	G	Water	Y	N				X	X								3	
[redacted]				Water	[redacted]															
WEL-01 (Filtered)	5/15/20	15:13	G	Water	Y	N				X		[redacted]	X						3	
WEL-04 (Filtered)	5/14/20	11:17	G	Water	Y	N				X			X						3	
OWR-13 (Filtered)	5/14/20	17:26	G	Water	Y	N			[redacted]	X		X							4	
T-18 (Filtered)	5/14/20	14:04	G	Water	Y	N				X		X							4	
OWR-14D (Filtered)	5/14/20	9:25	G	Water	Y	N	[redacted]			X		X						X	5	
Field Duplicate 2 (Field Filtered)	5/15/20	—	G	Water	Y	N	[redacted]			X		X						X	5	
OWR-15D (Filtered)	5/15/20	9:22	G	Water	Y	N				X									2	
T-06 (Filtered)	5/14/20	17:38	G	Water	Y	N				X									2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level II

Special Instructions/QC Requirements: 7470A-only mercury

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: fedex

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time: 5-16-2020 0900	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.9/2.3 2.4/2.8 2.3/2.7 1.2/1.6 2.0/2.4 4.9/5.3 2.4/3.0 0.4/0.8

Ver: 01/16/2019

7/16/2020 (Rev. 1)

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler	Lab PM: Hallmon, Willie L	Carrier Tracking No(s)	COC No: 680-113811-43642.4
Client Contact: Ms. Elaine Higgins	Phone:	E-Mail: willie.hallmon@testamericainc.com		Page: Page 4 of 4
Company: GSI Environmental, Inc				Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days):			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 0043964402(CERCLA)			
Email: eahiggins@gsi-net.com	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A	8260B - Trichloroethene	8081B_8082A - PCB	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered	6010C - (MOD) Cobalt/Manganese	680 - PCB Homologs	6010C - Manganese	8141B - Parathion	8270D - (MOD) 4-NP	6010C - (MOD) Cobalt/Manganese- FF	680 - Dissolved PCB Homologs - Field Filtered	6010C - (MOD) Manganese - Field Filtered		Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N	D	N	D	N	N	D	N	D			
~~T-20 (Filtered)~~				~~Water~~																	
				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify): Level II

Special Instructions/QC Requirements: 7470A-only mercury

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: fedex

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time: 5/16/2020 0900	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.9/2.3 2.4/2.8 2.3/2.7 1.2/1.6 2.0/2.4 4.9/5.3 2.6/3.0 2.4/0.8

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-183934-1
SDG Number: ANST183934

Login Number: 183934
List Number: 1
Creator: Laughlin, Paul D

List Source: Eurofins TestAmerica, Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: CERCLA Groundwater Monitoring Project Number: 680-183977-1
Reviewer: Ben Smith Validation Date: 25 November 2020

Laboratory: Eurofins TestAmerica Savannah, Eurofins Lancaster SDG #: ANST183977
Analytical Method (type and no.): VOCs (8260B), SVOCS (8270D), Pesticides (8141B), PCBs (8081B/8082A), PCB Homologs (680)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: T-04, T-09, T-10, FIELD DUPLICATE 3, T-20, TRIP BLANK 20200518, EQUIPMENT BLANK, T-04F, T-20F, T-09F

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	**YES**	**NO**	**NA**	**COMMENTS**
a) Sampling dates noted?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	FIELD DUPLICATE 3 (@T-09), TRIP BLANK 20200518, and EQUIPMENT BLANK collected.
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☒	☐	☐	
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	

Note Deficiencies: _____

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☐	☒	☐	Not signed by Field Personnel
c) Were samples received in good condition?	☒	☐	☐	Due to FedEx issues, 3 coolers shipped on 5/18/20 did not arrive on 5/19/20, but did arrive on 5/20/20 with all samples still <6 °C.

General (reference QAPP or Method)	**YES**	**NO**	**NA**	**COMMENTS**
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☒	☐	☐	Only for PCB-1254 in T-04 (DF=5)
g) Were any matrix problems noted?	☐	☒	☐	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☒	☐	
d) Were analytes detected in the trip blank(s)?	☐	☒	☐	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	☒	☐	☐	Original-T-09, Duplicate- FIELD DUPLICATE 3
b) Were field dup. precision criteria met (note RPD)?	☐	☒	☐	T-09: PCB-1248 = Not Calculated (original sample = 2.7 ug/L and duplicate = ND), PCB-1254 = Not Calculated (original = non-detect and duplicate = 0.59 ug/L),
c) Were lab duplicates analyzed (note original and duplicate samples)?	☒	☐	☐	Multiple LCSDs. Note that Parathion recovery in LCSD was high. Parathion was non-detect in all original samples, so no data was qualified.
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	All LCSD RPDs ≤ 14%

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	No MS/MSD samples in this report.
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☒	

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☒	☐	☐	
b) Were surrogate recoveries not calculated due to dilutions?	☐	☒	☐	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:
Qualify results in T-09 and in FIELD DUPLICATE 3 for PCB-1248 and PCB-1254 due to discrepancies in detections/non-detects between original and duplicate samples.

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
T-09	PCB-1248	2.7 ug/L	J	RPD between original and duplicate (ND) not calculated
FIELD DUPLICATE 3	PCB-1248	<0.5 ug/L	UJ	RPD between original and duplicate (ND) not calculated
T-09	PCB-1254	<0.5 ug/L	UJ	RPD between original (ND) and duplicate not calculated
FIELD DUPLICATE 3	PCB-1254	0.59 ug/L	J	RPD between original (ND) and duplicate not calculated

Signature: Wade Benjamin Smith Date: 25 November 2020

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: CERCLA Groundwater Monitoring Project Number: 680-183977-1
Reviewer: Ben Smith Validation Date: 25 November 2020

Laboratory: Eurofins TestAmerica Savannah SDG #: ANST183977
Analytical Method (type and no.): Metals (6010C), Mercury (7470A)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: T-04, T-20, EQUIPMENT BLANK, T-04F, T-20F

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	**YES**	**NO**	**NA**	**COMMENTS**
a) Sampling dates noted?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	EQUIPMENT BLANK collected.
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☒	☐	☐	
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	

Note Deficiencies:

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	.
b) Was the COC signed by both field and laboratory personnel?	☐	☒	☐	Not signed by Field Personnel
c) Were samples received in good condition?	☒	☐	☐	Due to FedEx issues, 3 coolers shipped on 5/18/20 did not arrive on 5/19/20, but did arrive on 5/20/20 with all samples still <6 °C.

General (reference QAPP or Method)	**YES**	**NO**	**NA**	**COMMENTS**
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☐	☒	☐	
g) Were any matrix problems noted?	☐	☒	☐	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	**YES**	**NO**	**NA**	**COMMENTS**
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☒	☐	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	**YES**	**NO**	**NA**	**COMMENTS**
a) Were field duplicates collected (note original and duplicate sample names)?	☐	☒	☐	
b) Were field dup. precision criteria met (note RPD)?	☐	☐	☒	
c) Were lab duplicates analyzed (note original and duplicate samples)?	☐	☒	☐	
d) Were lab dup. precision criteria met (note RPD)?	☐	☐	☒	

Blind Standards	**YES**	**NO**	**NA**	**COMMENTS**
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was MS accuracy criteria met?	☐	☐	☒	No MS/MSD samples in this report.
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☒	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:

_____

_____

_____

_____

_____

_____

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: Wade Benjamin Smith Date: 25 November 2020

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-183977-1
Client Project/Site: Anniston CERCLA April 2020
Revision: 1

For:
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Attn: Ben Smith

Amy Weinberg

Authorized for release by:
12/22/2020 2:40:56 PM

Amy Weinberg, Project Manager II
(813)885-7427
amy.weinberg@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2020

Job ID: 680-183977-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2020

Job ID: 680-183977-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-183977-1	T-04	Water	05/16/20 16:35	05/19/20 09:40	
680-183977-2	T-09	Water	05/16/20 16:15	05/20/20 09:30	
680-183977-3	T-10	Water	05/16/20 18:55	05/20/20 09:30	
680-183977-4	FIELD DUPLICATE 3	Water	05/16/20 00:00	05/20/20 09:30	
680-183977-5	T-20	Water	05/15/20 18:24	05/19/20 09:40	
680-183977-6	TRIP BLANK 20200518	Water	05/18/20 00:00	05/19/20 09:40	
680-183977-7	EQUIPMENT BLANK	Water	05/18/20 07:47	05/19/20 09:40	
680-183977-8	T-04F	Water	05/16/20 16:35	05/19/20 09:40	
680-183977-9	T-20F	Water	05/15/20 18:24	05/19/20 09:40	
680-183977-10	T-09F	Water	05/16/20 16:15	05/20/20 09:30	

Job ID: 680-183977-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

Job Narrative
680-183977-1

Comments
No additional comments.

Receipt
The samples were received on 5/19/2020 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 10 coolers at receipt time were 1.7º C, 1.7º C, 2.0º C, 2.4º C, 2.6º C, 4.0º C, 4.0º C, 4.1º C, 4.6º C and 4.7º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Methods 8141B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 280-495822 and analytical batch 280-496369 recovered outside control limits for the following analytes: Ethyl Parathion. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

LCSD:
Ethyl Parathion: Front column 115%, back column 108% limits 55-107%. 8141 T-09 (680-183977-2), T-10 (680-183977-3), FIELD DUPLICATE 3 (680-183977-4) and EQUIPMENT BLANK (680-183977-7)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: T-04

Date Collected: 05/16/20 16:35
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183977-1

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/04/20 23:30	1
PCB-1221	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/04/20 23:30	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 23:30	1
PCB-1242	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/04/20 23:30	1
PCB-1248	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/04/20 23:30	1
PCB-1254	**13**		0.50	0.26	ug/L		05/29/20 16:59	06/05/20 17:44	5
PCB-1260	<0.50		0.50	0.057	ug/L		05/29/20 16:59	06/04/20 23:30	1
PCB-1268	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/04/20 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*14 - 130*	*05/29/20 16:59*	*06/04/20 23:30*	*1*
Tetrachloro-m-xylene	*67*		*40 - 130*	*05/29/20 16:59*	*06/04/20 23:30*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.16**		0.010	0.0010	mg/L		05/26/20 11:14	05/27/20 17:44	1

Client Sample ID: T-09

Date Collected: 05/16/20 16:15
Date Received: 05/20/20 09:30

Lab Sample ID: 680-183977-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		05/22/20 18:50	06/02/20 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*46*		*32 - 113*	*05/22/20 18:50*	*06/02/20 21:07*	*1*
2-Fluorophenol	*45*		*26 - 109*	*05/22/20 18:50*	*06/02/20 21:07*	*1*
Nitrobenzene-d5	*52*		*32 - 118*	*05/22/20 18:50*	*06/02/20 21:07*	*1*
Phenol-d5	*47*		*27 - 110*	*05/22/20 18:50*	*06/02/20 21:07*	*1*
Terphenyl-d14	*58*		*10 - 126*	*05/22/20 18:50*	*06/02/20 21:07*	*1*
2,4,6-Tribromophenol	*51*		*39 - 124*	*05/22/20 18:50*	*06/02/20 21:07*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		06/05/20 16:09	06/09/20 19:16	1
PCB-1221	<0.50		0.50	0.092	ug/L		06/05/20 16:09	06/09/20 19:16	1
PCB-1232	<0.50		0.50	0.12	ug/L		06/05/20 16:09	06/09/20 19:16	1
PCB-1242	<0.50		0.50	0.092	ug/L		06/05/20 16:09	06/09/20 19:16	1
PCB-1248	**2.7**	**p**	0.50	0.10	ug/L		06/05/20 16:09	06/09/20 19:16	1
PCB-1254	<0.50		0.50	0.053	ug/L		06/05/20 16:09	06/09/20 19:16	1
PCB-1260	<0.50		0.50	0.058	ug/L		06/05/20 16:09	06/09/20 19:16	1
PCB-1268	<0.50		0.50	0.12	ug/L		06/05/20 16:09	06/09/20 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*14 - 130*	*06/05/20 16:09*	*06/09/20 19:16*	*1*
Tetrachloro-m-xylene	*69*		*40 - 130*	*06/05/20 16:09*	*06/09/20 19:16*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0	*	1.0	0.14	ug/L		05/22/20 06:46	05/28/20 17:23	1

Client Sample ID: T-09

Date Collected: 05/16/20 16:15
Date Received: 05/20/20 09:30

Lab Sample ID: 680-183977-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*79*		*60 - 154*	*05/22/20 06:46*	*05/28/20 17:23*	*1*
Chlormefos	*77*		*49 - 171*	*05/22/20 06:46*	*05/28/20 17:23*	*1*

Client Sample ID: T-10

Date Collected: 05/16/20 18:55
Date Received: 05/20/20 09:30

Lab Sample ID: 680-183977-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		05/22/20 18:50	06/02/20 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*49*		*32 - 113*	*05/22/20 18:50*	*06/02/20 21:30*	*1*
2-Fluorophenol	*56*		*26 - 109*	*05/22/20 18:50*	*06/02/20 21:30*	*1*
Nitrobenzene-d5	*60*		*32 - 118*	*05/22/20 18:50*	*06/02/20 21:30*	*1*
Phenol-d5	*58*		*27 - 110*	*05/22/20 18:50*	*06/02/20 21:30*	*1*
Terphenyl-d14	*49*		*10 - 126*	*05/22/20 18:50*	*06/02/20 21:30*	*1*
2,4,6-Tribromophenol	*53*		*39 - 124*	*05/22/20 18:50*	*06/02/20 21:30*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		06/05/20 16:09	06/09/20 19:31	1
PCB-1221	<0.50		0.50	0.091	ug/L		06/05/20 16:09	06/09/20 19:31	1
PCB-1232	<0.50		0.50	0.12	ug/L		06/05/20 16:09	06/09/20 19:31	1
PCB-1242	<0.50		0.50	0.091	ug/L		06/05/20 16:09	06/09/20 19:31	1
PCB-1248	<0.50		0.50	0.10	ug/L		06/05/20 16:09	06/09/20 19:31	1
PCB-1254	<0.50		0.50	0.052	ug/L		06/05/20 16:09	06/09/20 19:31	1
PCB-1260	<0.50		0.50	0.057	ug/L		06/05/20 16:09	06/09/20 19:31	1
PCB-1268	<0.50		0.50	0.11	ug/L		06/05/20 16:09	06/09/20 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*14 - 130*	*06/05/20 16:09*	*06/09/20 19:31*	*1*
Tetrachloro-m-xylene	*46*		*40 - 130*	*06/05/20 16:09*	*06/09/20 19:31*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0	*	1.0	0.14	ug/L		05/22/20 06:46	05/28/20 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*91*		*60 - 154*	*05/22/20 06:46*	*05/28/20 18:03*	*1*
Chlormefos	*79*		*49 - 171*	*05/22/20 06:46*	*05/28/20 18:03*	*1*

Client Sample ID: FIELD DUPLICATE 3

Date Collected: 05/16/20 00:00
Date Received: 05/20/20 09:30

Lab Sample ID: 680-183977-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		05/22/20 18:50	06/02/20 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*32 - 113*	*05/22/20 18:50*	*06/02/20 21:52*	*1*

Client Sample ID: FIELD DUPLICATE 3

Lab Sample ID: 680-183977-4

Date Collected: 05/16/20 00:00
Matrix: Water
Date Received: 05/20/20 09:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*57*		*26 - 109*	*05/22/20 18:50*	*06/02/20 21:52*	*1*
Nitrobenzene-d5	*62*		*32 - 118*	*05/22/20 18:50*	*06/02/20 21:52*	*1*
Phenol-d5	*59*		*27 - 110*	*05/22/20 18:50*	*06/02/20 21:52*	*1*
Terphenyl-d14	*89*		*10 - 126*	*05/22/20 18:50*	*06/02/20 21:52*	*1*
2,4,6-Tribromophenol	*72*		*39 - 124*	*05/22/20 18:50*	*06/02/20 21:52*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/04/20 23:44	1
PCB-1221	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/04/20 23:44	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 23:44	1
PCB-1242	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/04/20 23:44	1
PCB-1248	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/04/20 23:44	1
PCB-1254	**0.59**		0.50	0.053	ug/L		05/29/20 16:59	06/04/20 23:44	1
PCB-1260	<0.50		0.50	0.058	ug/L		05/29/20 16:59	06/04/20 23:44	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*14 - 130*	*05/29/20 16:59*	*06/04/20 23:44*	*1*
Tetrachloro-m-xylene	*63*		*40 - 130*	*05/29/20 16:59*	*06/04/20 23:44*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0	*	1.0	0.14	ug/L		05/22/20 06:46	05/28/20 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*99*		*60 - 154*	*05/22/20 06:46*	*05/28/20 18:42*	*1*
Chlormefos	*80*		*49 - 171*	*05/22/20 06:46*	*05/28/20 18:42*	*1*

Client Sample ID: T-20

Lab Sample ID: 680-183977-5

Date Collected: 05/15/20 18:24
Matrix: Water
Date Received: 05/19/20 09:40

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		05/29/20 16:59	06/04/20 23:58	1
PCB-1221	<0.50		0.50	0.093	ug/L		05/29/20 16:59	06/04/20 23:58	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 23:58	1
PCB-1242	<0.50		0.50	0.093	ug/L		05/29/20 16:59	06/04/20 23:58	1
PCB-1248	**1.1**	**p**	0.50	0.10	ug/L		05/29/20 16:59	06/04/20 23:58	1
PCB-1254	<0.50		0.50	0.054	ug/L		05/29/20 16:59	06/04/20 23:58	1
PCB-1260	<0.50		0.50	0.059	ug/L		05/29/20 16:59	06/04/20 23:58	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*14 - 130*	*05/29/20 16:59*	*06/04/20 23:58*	*1*
Tetrachloro-m-xylene	*54*		*40 - 130*	*05/29/20 16:59*	*06/04/20 23:58*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**2.9**		0.010	0.0010	mg/L		05/26/20 11:14	05/27/20 17:58	1

Client Sample ID: T-20

Lab Sample ID: 680-183977-5

Date Collected: 05/15/20 18:24
Matrix: Water
Date Received: 05/19/20 09:40

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:30	05/26/20 18:28	1

Client Sample ID: TRIP BLANK 20200518

Lab Sample ID: 680-183977-6

Date Collected: 05/18/20 00:00
Matrix: Water
Date Received: 05/19/20 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.0		1.0	0.48	ug/L			05/29/20 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/29/20 14:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*73 - 131*		*05/29/20 14:45*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 122*		*05/29/20 14:45*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*05/29/20 14:45*	*1*

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 680-183977-7

Date Collected: 05/18/20 07:47
Matrix: Water
Date Received: 05/19/20 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.0		1.0	0.48	ug/L			05/29/20 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/29/20 15:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*73 - 131*		*05/29/20 15:08*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 122*		*05/29/20 15:08*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*05/29/20 15:08*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	2.0	ug/L		05/22/20 18:50	06/02/20 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*32 - 113*	*05/22/20 18:50*	*06/02/20 22:14*	*1*
2-Fluorophenol	*50*		*26 - 109*	*05/22/20 18:50*	*06/02/20 22:14*	*1*
Nitrobenzene-d5	*57*		*32 - 118*	*05/22/20 18:50*	*06/02/20 22:14*	*1*
Phenol-d5	*52*		*27 - 110*	*05/22/20 18:50*	*06/02/20 22:14*	*1*
Terphenyl-d14	*76*		*10 - 126*	*05/22/20 18:50*	*06/02/20 22:14*	*1*
2,4,6-Tribromophenol	*56*		*39 - 124*	*05/22/20 18:50*	*06/02/20 22:14*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/05/20 00:13	1
PCB-1221	<0.50		0.50	0.097	ug/L		05/29/20 16:59	06/05/20 00:13	1
PCB-1232	<0.50		0.50	0.13	ug/L		05/29/20 16:59	06/05/20 00:13	1
PCB-1242	<0.50		0.50	0.097	ug/L		05/29/20 16:59	06/05/20 00:13	1
PCB-1248	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/05/20 00:13	1
PCB-1254	<0.50		0.50	0.056	ug/L		05/29/20 16:59	06/05/20 00:13	1
PCB-1260	<0.50		0.50	0.061	ug/L		05/29/20 16:59	06/05/20 00:13	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/05/20 00:13	1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 680-183977-7
Date Collected: 05/18/20 07:47
Matrix: Water
Date Received: 05/19/20 09:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*14 - 130*	*05/29/20 16:59*	*06/05/20 00:13*	*1*
Tetrachloro-m-xylene	*78*		*40 - 130*	*05/29/20 16:59*	*06/05/20 00:13*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0	*	1.0	0.15	ug/L		05/22/20 06:46	05/28/20 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*84*		*60 - 154*	*05/22/20 06:46*	*05/28/20 19:21*	*1*
Chlormefos	*77*		*49 - 171*	*05/22/20 06:46*	*05/28/20 19:21*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.00010	mg/L		05/26/20 11:14	05/27/20 18:02	1
Manganese	<0.010		0.010	0.0010	mg/L		05/26/20 11:14	05/27/20 18:02	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:30	05/26/20 18:32	1

Client Sample ID: T-04F

Lab Sample ID: 680-183977-8
Date Collected: 05/16/20 16:35
Matrix: Water
Date Received: 05/19/20 09:40

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/08/20 22:37	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 22:37	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 22:37	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 22:37	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 22:37	1
PCB-1254, Dissolved	<0.50		0.50	0.052	ug/L		05/29/20 16:59	06/08/20 22:37	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		05/29/20 16:59	06/08/20 22:37	1
PCB-1268, Dissolved	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/08/20 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*43*		*14 - 130*	*05/29/20 16:59*	*06/08/20 22:37*	*1*
Tetrachloro-m-xylene	*108*		*40 - 130*	*05/29/20 16:59*	*06/08/20 22:37*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**0.092**		0.010	0.0010	mg/L		05/26/20 11:14	05/27/20 17:48	1

Client Sample ID: T-20F

Lab Sample ID: 680-183977-9
Date Collected: 05/15/20 18:24
Matrix: Water
Date Received: 05/19/20 09:40

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**2.7**		0.010	0.0010	mg/L		05/26/20 11:14	05/27/20 17:53	1

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2020

Job ID: 680-183977-1

Client Sample ID: T-09F
Date Collected: 05/16/20 16:15
Date Received: 05/20/20 09:30

Lab Sample ID: 680-183977-10
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.088	ug/L		05/29/20 16:59	06/08/20 22:51	1
PCB-1221, Dissolved	<0.50		0.50	0.092	ug/L		05/29/20 16:59	06/08/20 22:51	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 22:51	1
PCB-1242, Dissolved	<0.50		0.50	0.092	ug/L		05/29/20 16:59	06/08/20 22:51	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 22:51	1
PCB-1254, Dissolved	<0.50		0.50	0.054	ug/L		05/29/20 16:59	06/08/20 22:51	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		05/29/20 16:59	06/08/20 22:51	1
PCB-1268, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*25*		*14 - 130*	*05/29/20 16:59*	*06/08/20 22:51*	*1*
Tetrachloro-m-xylene	*95*		*40 - 130*	*05/29/20 16:59*	*06/08/20 22:51*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-620373/10
Matrix: Water
Analysis Batch: 620373

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.0		1.0	0.48	ug/L			05/29/20 13:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/29/20 13:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*73 - 131*		*05/29/20 13:20*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 122*		*05/29/20 13:20*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*05/29/20 13:20*	*1*

Lab Sample ID: LCS 680-620373/4
Matrix: Water
Analysis Batch: 620373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Trichloroethene			50.0	46.0		ug/L		92	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*
Dibromofluoromethane (Surr)	*99*		*80 - 122*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 680-620373/5
Matrix: Water
Analysis Batch: 620373

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene			50.0	46.6		ug/L		93	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*
Dibromofluoromethane (Surr)	*102*		*80 - 122*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-619700/17-A
Matrix: Water
Analysis Batch: 620854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		05/22/20 18:50	06/02/20 15:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*32 - 113*	*05/22/20 18:50*	*06/02/20 15:32*	*1*
2-Fluorophenol	*71*		*26 - 109*	*05/22/20 18:50*	*06/02/20 15:32*	*1*
Nitrobenzene-d5	*78*		*32 - 118*	*05/22/20 18:50*	*06/02/20 15:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-619700/17-A
Matrix: Water
Analysis Batch: 620854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619700

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5	68		27 - 110	05/22/20 18:50	06/02/20 15:32	1
Terphenyl-d14	85		10 - 126	05/22/20 18:50	06/02/20 15:32	1
2,4,6-Tribromophenol	88		39 - 124	05/22/20 18:50	06/02/20 15:32	1

Lab Sample ID: LCS 680-619700/18-A
Matrix: Water
Analysis Batch: 620854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitrophenol	200	161		ug/L		81	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	72		32 - 113
2-Fluorophenol	69		26 - 109
Nitrobenzene-d5	81		32 - 118
Phenol-d5	66		27 - 110
Terphenyl-d14	66		10 - 126
2,4,6-Tribromophenol	76		39 - 124

Lab Sample ID: LCSD 680-619700/19-A
Matrix: Water
Analysis Batch: 620854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 619700

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Nitrophenol	200	203		ug/L		102	44 - 130	23	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	74		32 - 113
2-Fluorophenol	78		26 - 109
Nitrobenzene-d5	86		32 - 118
Phenol-d5	79		27 - 110
Terphenyl-d14	83		10 - 126
2,4,6-Tribromophenol	79		39 - 124

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-620451/19-A
Matrix: Water
Analysis Batch: 621262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620451

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/29/20 16:59	06/04/20 20:09	1
PCB-1221	<0.50		0.50	0.095	ug/L		05/29/20 16:59	06/04/20 20:09	1
PCB-1232	<0.50		0.50	0.13	ug/L		05/29/20 16:59	06/04/20 20:09	1
PCB-1242	<0.50		0.50	0.095	ug/L		05/29/20 16:59	06/04/20 20:09	1
PCB-1248	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/04/20 20:09	1
PCB-1254	<0.50		0.50	0.055	ug/L		05/29/20 16:59	06/04/20 20:09	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 680-620451/19-A
Matrix: Water
Analysis Batch: 621262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620451

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<0.50		0.50	0.060	ug/L		05/29/20 16:59	06/04/20 20:09	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/04/20 20:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*88*		*14 - 130*	*05/29/20 16:59*	*06/04/20 20:09*	*1*
Tetrachloro-m-xylene	*76*		*40 - 130*	*05/29/20 16:59*	*06/04/20 20:09*	*1*

Lab Sample ID: LCS 680-620451/20-A
Matrix: Water
Analysis Batch: 621262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620451

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	3.00	2.74		ug/L		91	44 - 130
PCB-1260	3.00	3.05		ug/L		102	35 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*88*		*14 - 130*
Tetrachloro-m-xylene	*80*		*40 - 130*

Lab Sample ID: MB 680-620452/17-A
Matrix: Water
Analysis Batch: 621712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1221, Dissolved	<0.50		0.50	0.095	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1232, Dissolved	<0.50		0.50	0.13	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1242, Dissolved	<0.50		0.50	0.095	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1248, Dissolved	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1254, Dissolved	<0.50		0.50	0.055	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1268, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 19:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*14 - 130*	*05/29/20 16:59*	*06/08/20 19:16*	*1*
Tetrachloro-m-xylene	*88*		*40 - 130*	*05/29/20 16:59*	*06/08/20 19:16*	*1*

Lab Sample ID: LCS 680-620452/18-A
Matrix: Water
Analysis Batch: 621712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016, Dissolved	3.00	3.06		ug/L		102	44 - 130
PCB-1260, Dissolved	3.00	3.56		ug/L		119	35 - 130

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-620452/18-A
Matrix: Water
Analysis Batch: 621712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620452

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*49*		*14 - 130*
Tetrachloro-m-xylene	*92*		*40 - 130*

Lab Sample ID: LCSD 680-620452/19-A
Matrix: Water
Analysis Batch: 621712

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 620452

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016, Dissolved			3.00	3.19		ug/L		106	44 - 130	4	30
PCB-1260, Dissolved			3.00	3.68		ug/L		123	35 - 130	3	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*56*		*14 - 130*
Tetrachloro-m-xylene	*86*		*40 - 130*

Lab Sample ID: MB 680-621460/19-A
Matrix: Water
Analysis Batch: 621804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 621460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		06/05/20 16:09	06/09/20 17:17	1
PCB-1221	<0.50		0.50	0.095	ug/L		06/05/20 16:09	06/09/20 17:17	1
PCB-1232	<0.50		0.50	0.13	ug/L		06/05/20 16:09	06/09/20 17:17	1
PCB-1242	<0.50		0.50	0.095	ug/L		06/05/20 16:09	06/09/20 17:17	1
PCB-1248	<0.50		0.50	0.11	ug/L		06/05/20 16:09	06/09/20 17:17	1
PCB-1254	<0.50		0.50	0.055	ug/L		06/05/20 16:09	06/09/20 17:17	1
PCB-1260	<0.50		0.50	0.060	ug/L		06/05/20 16:09	06/09/20 17:17	1
PCB-1268	<0.50		0.50	0.12	ug/L		06/05/20 16:09	06/09/20 17:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*14 - 130*	*06/05/20 16:09*	*06/09/20 17:17*	*1*
Tetrachloro-m-xylene	*59*		*40 - 130*	*06/05/20 16:09*	*06/09/20 17:17*	*1*

Lab Sample ID: LCS 680-621460/22-A
Matrix: Water
Analysis Batch: 621804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 621460

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016			3.00	2.29		ug/L		76	44 - 130
PCB-1260			3.00	2.62		ug/L		87	35 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*80*		*14 - 130*
Tetrachloro-m-xylene	*75*		*40 - 130*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 680-621460/23-A
Matrix: Water
Analysis Batch: 621804

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 621460

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			3.00	2.63		ug/L		88	44 - 130	14	30
PCB-1260			3.00	2.71		ug/L		90	35 - 130	4	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*46*		*14 - 130*
Tetrachloro-m-xylene	*78*		*40 - 130*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-495822/1-A
Matrix: Water
Analysis Batch: 496369

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/22/20 06:46	05/28/20 14:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*79*		*60 - 154*	*05/22/20 06:46*	*05/28/20 14:08*	*1*
Chlormefos	*72*		*49 - 171*	*05/22/20 06:46*	*05/28/20 14:08*	*1*

Lab Sample ID: LCS 280-495822/2-A
Matrix: Water
Analysis Batch: 496369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495822

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Parathion			4.00	3.99		ug/L		100	55 - 107		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*86*		*60 - 154*
Chlormefos	*73*		*49 - 171*

Lab Sample ID: LCSD 280-495822/3-A
Matrix: Water
Analysis Batch: 496369

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 495822

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Parathion			4.00	4.61	*	ug/L		115	55 - 107	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate	*103*		*60 - 154*
Chlormefos	*85*		*49 - 171*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-619912/1-A
Matrix: Water
Analysis Batch: 620265

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 619912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.00010	mg/L		05/26/20 11:14	05/27/20 16:16	1
Manganese	<0.010		0.010	0.0010	mg/L		05/26/20 11:14	05/27/20 16:16	1
Manganese, Dissolved	<0.010		0.010	0.0010	mg/L		05/26/20 11:14	05/27/20 16:16	1

Lab Sample ID: LCS 680-619912/2-A
Matrix: Water
Analysis Batch: 620265

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 619912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.0500	0.0532		mg/L		106	80 - 120
Manganese	0.400	0.394		mg/L		98	80 - 120
Manganese, Dissolved	0.400	0.394		mg/L		98	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-619854/1-A
Matrix: Water
Analysis Batch: 620002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619854

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:30	05/26/20 18:01	1

Lab Sample ID: LCS 680-619854/2-A
Matrix: Water
Analysis Batch: 620002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619854

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00238		mg/L		95	80 - 120

GC/MS VOA

Analysis Batch: 620373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-6	TRIP BLANK 20200518	Total/NA	Water	8260B	
680-183977-7	EQUIPMENT BLANK	Total/NA	Water	8260B	
MB 680-620373/10	Method Blank	Total/NA	Water	8260B	
LCS 680-620373/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-620373/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 619700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-2	T-09	Total/NA	Water	3520C	
680-183977-3	T-10	Total/NA	Water	3520C	
680-183977-4	FIELD DUPLICATE 3	Total/NA	Water	3520C	
680-183977-7	EQUIPMENT BLANK	Total/NA	Water	3520C	
MB 680-619700/17-A	Method Blank	Total/NA	Water	3520C	
LCS 680-619700/18-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-619700/19-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 620854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-2	T-09	Total/NA	Water	8270D	619700
680-183977-3	T-10	Total/NA	Water	8270D	619700
680-183977-4	FIELD DUPLICATE 3	Total/NA	Water	8270D	619700
680-183977-7	EQUIPMENT BLANK	Total/NA	Water	8270D	619700
MB 680-619700/17-A	Method Blank	Total/NA	Water	8270D	619700
LCS 680-619700/18-A	Lab Control Sample	Total/NA	Water	8270D	619700
LCSD 680-619700/19-A	Lab Control Sample Dup	Total/NA	Water	8270D	619700

GC Semi VOA

Prep Batch: 495822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-2	T-09	Total/NA	Water	3510C	
680-183977-3	T-10	Total/NA	Water	3510C	
680-183977-4	FIELD DUPLICATE 3	Total/NA	Water	3510C	
680-183977-7	EQUIPMENT BLANK	Total/NA	Water	3510C	
MB 280-495822/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-495822/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-495822/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 496369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-2	T-09	Total/NA	Water	8141B	495822
680-183977-3	T-10	Total/NA	Water	8141B	495822
680-183977-4	FIELD DUPLICATE 3	Total/NA	Water	8141B	495822
680-183977-7	EQUIPMENT BLANK	Total/NA	Water	8141B	495822
MB 280-495822/1-A	Method Blank	Total/NA	Water	8141B	495822
LCS 280-495822/2-A	Lab Control Sample	Total/NA	Water	8141B	495822
LCSD 280-495822/3-A	Lab Control Sample Dup	Total/NA	Water	8141B	495822

GC Semi VOA

Prep Batch: 620451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-1	T-04	Total/NA	Water	3520C	
680-183977-4	FIELD DUPLICATE 3	Total/NA	Water	3520C	
680-183977-5	T-20	Total/NA	Water	3520C	
680-183977-7	EQUIPMENT BLANK	Total/NA	Water	3520C	
MB 680-620451/19-A	Method Blank	Total/NA	Water	3520C	
LCS 680-620451/20-A	Lab Control Sample	Total/NA	Water	3520C	

Prep Batch: 620452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-8	T-04F	Dissolved	Water	3520C	
680-183977-10	T-09F	Dissolved	Water	3520C	
MB 680-620452/17-A	Method Blank	Total/NA	Water	3520C	
LCS 680-620452/18-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-620452/19-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 621262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-1	T-04	Total/NA	Water	8081B/8082A	620451
680-183977-4	FIELD DUPLICATE 3	Total/NA	Water	8081B/8082A	620451
680-183977-5	T-20	Total/NA	Water	8081B/8082A	620451
680-183977-7	EQUIPMENT BLANK	Total/NA	Water	8081B/8082A	620451
MB 680-620451/19-A	Method Blank	Total/NA	Water	8081B/8082A	620451
LCS 680-620451/20-A	Lab Control Sample	Total/NA	Water	8081B/8082A	620451

Analysis Batch: 621432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-1	T-04	Total/NA	Water	8081B/8082A	620451

Prep Batch: 621460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-2	T-09	Total/NA	Water	3520C	
680-183977-3	T-10	Total/NA	Water	3520C	
MB 680-621460/19-A	Method Blank	Total/NA	Water	3520C	
LCS 680-621460/22-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-621460/23-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 621712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-8	T-04F	Dissolved	Water	8081B/8082A	620452
680-183977-10	T-09F	Dissolved	Water	8081B/8082A	620452
MB 680-620452/17-A	Method Blank	Total/NA	Water	8081B/8082A	620452
LCS 680-620452/18-A	Lab Control Sample	Total/NA	Water	8081B/8082A	620452
LCSD 680-620452/19-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	620452

Analysis Batch: 621804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-2	T-09	Total/NA	Water	8081B/8082A	621460
680-183977-3	T-10	Total/NA	Water	8081B/8082A	621460
MB 680-621460/19-A	Method Blank	Total/NA	Water	8081B/8082A	621460
LCS 680-621460/22-A	Lab Control Sample	Total/NA	Water	8081B/8082A	621460
LCSD 680-621460/23-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	621460

Metals

Prep Batch: 619854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-5	T-20	Total/NA	Water	7470A	
680-183977-7	EQUIPMENT BLANK	Total/NA	Water	7470A	
MB 680-619854/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-619854/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 619912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-1	T-04	Total Recoverable	Water	3005A	
680-183977-5	T-20	Total Recoverable	Water	3005A	
680-183977-7	EQUIPMENT BLANK	Total Recoverable	Water	3005A	
680-183977-8	T-04F	Dissolved	Water	3005A	
680-183977-9	T-20F	Dissolved	Water	3005A	
MB 680-619912/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-619912/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 620002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-5	T-20	Total/NA	Water	7470A	619854
680-183977-7	EQUIPMENT BLANK	Total/NA	Water	7470A	619854
MB 680-619854/1-A	Method Blank	Total/NA	Water	7470A	619854
LCS 680-619854/2-A	Lab Control Sample	Total/NA	Water	7470A	619854

Analysis Batch: 620265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183977-1	T-04	Total Recoverable	Water	6010C	619912
680-183977-5	T-20	Total Recoverable	Water	6010C	619912
680-183977-7	EQUIPMENT BLANK	Total Recoverable	Water	6010C	619912
680-183977-8	T-04F	Dissolved	Water	6010C	619912
680-183977-9	T-20F	Dissolved	Water	6010C	619912
MB 680-619912/1-A	Method Blank	Total Recoverable	Water	6010C	619912
LCS 680-619912/2-A	Lab Control Sample	Total Recoverable	Water	6010C	619912

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2020

Job ID: 680-183977-1

Client Sample ID: T-04

Lab Sample ID: 680-183977-1

Date Collected: 05/16/20 16:35

Matrix: Water

Date Received: 05/19/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1045.9 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621262	06/04/20 23:30	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			1045.9 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		5			621432	06/05/20 17:44	JCK	TAL SAV
	Instrument ID: CSGJ									
Total Recoverable	Prep	3005A			50 mL	50 mL	619912	05/26/20 11:14	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			620265	05/27/20 17:44	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: T-09

Lab Sample ID: 680-183977-2

Date Collected: 05/16/20 16:15

Matrix: Water

Date Received: 05/20/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1041.5 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D		1			620854	06/02/20 21:07	T1C	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1035.5 mL	5 mL	621460	06/05/20 16:09	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621804	06/09/20 19:16	JCK	TAL SAV
	Instrument ID: CSGZ									
Total/NA	Prep	3510C			1049 mL	2 mL	495822	05/22/20 06:46	JT	TAL DEN
Total/NA	Analysis	8141B		1			496369	05/28/20 17:23	TMC	TAL DEN
	Instrument ID: SGC_D2									

Client Sample ID: T-10

Lab Sample ID: 680-183977-3

Date Collected: 05/16/20 18:55

Matrix: Water

Date Received: 05/20/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1047.6 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D		1			620854	06/02/20 21:30	T1C	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1047.9 mL	5 mL	621460	06/05/20 16:09	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621804	06/09/20 19:31	JCK	TAL SAV
	Instrument ID: CSGZ									
Total/NA	Prep	3510C			1052.3 mL	2 mL	495822	05/22/20 06:46	JT	TAL DEN
Total/NA	Analysis	8141B		1			496369	05/28/20 18:03	TMC	TAL DEN
	Instrument ID: SGC_D2									

Client Sample ID: FIELD DUPLICATE 3

Lab Sample ID: 680-183977-4

Date Collected: 05/16/20 00:00

Matrix: Water

Date Received: 05/20/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1032.9 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D		1			620854	06/02/20 21:52	T1C	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1040.8 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621262	06/04/20 23:44	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1049.8 mL	2 mL	495822	05/22/20 06:46	JT	TAL DEN
Total/NA	Analysis	8141B		1			496369	05/28/20 18:42	TMC	TAL DEN
	Instrument ID: SGC_D2									

Client Sample ID: T-20

Lab Sample ID: 680-183977-5

Date Collected: 05/15/20 18:24

Matrix: Water

Date Received: 05/19/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1024.9 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621262	06/04/20 23:58	JCK	TAL SAV
	Instrument ID: CSGAA									
Total Recoverable	Prep	3005A			50 mL	50 mL	619912	05/26/20 11:14	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			620265	05/27/20 17:58	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619854	05/26/20 09:30	BCB	TAL SAV
Total/NA	Analysis	7470A		1			620002	05/26/20 18:28	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: TRIP BLANK 20200518

Lab Sample ID: 680-183977-6

Date Collected: 05/18/20 00:00

Matrix: Water

Date Received: 05/19/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	620373	05/29/20 14:45	SMP	TAL SAV
	Instrument ID: CMSC									

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 680-183977-7

Date Collected: 05/18/20 07:47

Matrix: Water

Date Received: 05/19/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	620373	05/29/20 15:08	SMP	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	3520C			956.9 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D		1			620854	06/02/20 22:14	T1C	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			984.2 mL	5 mL	620451	05/29/20 16:59	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621262	06/05/20 00:13	JCK	TAL SAV
	Instrument ID: CSGAA									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2020

Job ID: 680-183977-1

Client Sample ID: EQUIPMENT BLANK
Date Collected: 05/18/20 07:47
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183977-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			957.9 mL	2 mL	495822	05/22/20 06:46	JT	TAL DEN
Total/NA	Analysis	8141B		1			496369	05/28/20 19:21	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	619912	05/26/20 11:14	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			620265	05/27/20 18:02	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619854	05/26/20 09:30	BCB	TAL SAV
Total/NA	Analysis	7470A		1			620002	05/26/20 18:32	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: T-04F
Date Collected: 05/16/20 16:35
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183977-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1048.1 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 22:37	JCK	TAL SAV
	Instrument ID: CSGJ									
Dissolved	Prep	3005A			50 mL	50 mL	619912	05/26/20 11:14	AJR	TAL SAV
Dissolved	Analysis	6010C		1			620265	05/27/20 17:48	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: T-20F
Date Collected: 05/15/20 18:24
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183977-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	619912	05/26/20 11:14	AJR	TAL SAV
Dissolved	Analysis	6010C		1			620265	05/27/20 17:53	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: T-09F
Date Collected: 05/16/20 16:15
Date Received: 05/20/20 09:30

Lab Sample ID: 680-183977-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1027.6 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 22:51	JCK	TAL SAV
	Instrument ID: CSGJ									

Laboratory References:

SC0103 = Eurofins Lancaster Laboratories Env LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Job ID: 680-183977-1
Project/Site: Anniston CERCLA April 2020

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-20

Laboratory: Eurofins TestAmerica, Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-19-20
Arkansas DEQ	State	19-047-0	05-31-20
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	06-30-20
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-20
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	07-31-20
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-20
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-20-20
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-20-18	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	CO000262019-11	07-31-20
Virginia	NELAP	10490	06-10-20
Washington	State	C583-19	08-03-20
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-30-20
Wyoming (UST)	A2LA	2907.01	10-31-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2020

Job ID: 680-183977-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	TAL DEN
6010C	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
680	Polychlorinated Biphenyls by GCMS	EPA	SC0103
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
7470A	Preparation, Mercury	SW846	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

SC0103 = Eurofins Lancaster Laboratories Env LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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REVISED

ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

TestAmerica
4101 Shuffel Street NW
North Canton OH 44720

Report Date: July 14, 2020 08:53

Project: Anniston CERCLA April 2020

Account #: 01042
Group Number: 2100311
PO Number: 680-183934-1
State of Sample Origin: AL

Electronic Copy To TestAmerica Attn: Amy Weinberg

Respectfully Submitted,

Kay Hower

Kay Hower

(717) 556-7364

A previous version of this report was generated on 06/05/2020 14:42.

To view our laboratory's current scopes of accreditation please go to https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/ . Historical copies may be requested through your project manager.



2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

REVISED

SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
EQUIPMENT BLANK (680-183977-7) Water	05/18/2020 07:47	1318576

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

REVISED

Sample Description: EQUIPMENT BLANK (680-183977-7) Water
Anniston CERCLA April 2020

Project Name: Anniston CERCLA April 2020

Submittal Date/Time: 05/21/2020 10:31
Collection Date/Time: 05/18/2020 07:47

TestAmerica
ELLE Sample #: WW 1318576
ELLE Group #: 2100311
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	MRL	Dilution Factor
Total PCB Homologues	**EPA 680 November 1985**		**ug/l**	**ug/l**	
13729	Monochlorobiphenyls	27323-18-8	< 0.11	0.11	1
13729	Dichlorobiphenyls	25512-42-9	< 0.11	0.11	1
13729	Trichlorobiphenyls	25323-68-6	< 0.11	0.11	1
13729	Tetrachlorobiphenyls	26914-33-0	< 0.21	0.21	1
13729	Pentachlorobiphenyls	25429-29-2	< 0.21	0.21	1
13729	Hexachlorobiphenyls	26601-64-9	< 0.21	0.21	1
13729	Heptachlorobiphenyls	28655-71-2	< 0.32	0.32	1
13729	Octachlorobiphenyls	31472-83-0	< 0.32	0.32	1
13729	Nonachlorobiphenyls	53742-07-7	< 0.53	0.53	1
13729	Decachlorobiphenyls	2051-24-3	< 0.53	0.53	1

Labeled Compounds	**%Rec**	**Windows**
PCB 52 C13	70	41 - 100
PCB 138 C13	83	45 - 111

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Reporting Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*
S	*Saturation of detection signal*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13729	PCB Homologues in Water	EPA 680 November 1985	1	20149007	05/31/2020 14:11	Angela D Sneeringer	1
13731	PCB Homologues in Water - SepF	EPA 680 November 1985	1	20149007	05/28/2020 08:10	Deborah M Zimmerman	1

REVISED

Quality Control Summary

Client Name: TestAmerica
Reported: 07/14/2020 08:53

Group Number: 2100311

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result ug/l	MRL ug/l
Batch number: 20149007	Sample number(s): 1318576	
Monochlorobiphenyls	< 0.10	0.10
Dichlorobiphenyls	< 0.10	0.10
Trichlorobiphenyls	< 0.10	0.10
Tetrachlorobiphenyls	< 0.20	0.20
Pentachlorobiphenyls	< 0.20	0.20
Hexachlorobiphenyls	< 0.20	0.20
Heptachlorobiphenyls	< 0.30	0.30
Octachlorobiphenyls	< 0.30	0.30
Nonachlorobiphenyls	< 0.50	0.50
Decachlorobiphenyls	< 0.50	0.50

OPR/OPRD

Analysis Name	OPR Spike Added ug/l	OPR Conc ug/l	OPRD Spike Added ug/l	OPRD Conc ug/l	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 20149007	Sample number(s): 1318576								
Monochlorobiphenyls	1.25	0.783	1.25	0.792	63	63	33-91	1	30
Dichlorobiphenyls	1.25	0.806	1.25	0.840	64	67	37-100	4	30
Trichlorobiphenyls	1.25	0.833	1.25	0.899	67	72	37-96	8	30
Tetrachlorobiphenyls	2.50	1.68	2.50	1.81	67	72	41-96	7	30
Pentachlorobiphenyls	2.50	2.08	2.50	2.18	83	87	49-111	5	30
Hexachlorobiphenyls	2.50	2.09	2.50	2.20	84	88	48-115	5	30
Heptachlorobiphenyls	3.75	3.30	3.75	3.46	88	92	47-115	5	30
Octachlorobiphenyls	3.75	3.46	3.75	3.63	92	97	50-115	5	30
Decachlorobiphenyls	6.25	7.04	6.25	7.43	113	119	52-119	5	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the MRL.
(2) The unspiked result was more than four times the spike added.

REVISED

Quality Control Summary

Client Name: TestAmerica
Reported: 07/14/2020 08:53

Group Number: 2100311

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PCB Homologues in Water
Batch number: 20149007

	PCB 52 C13	PCB 138 C13
1318576	70	83
Blank	65	80
OPR	75	86
OPRD	80	90
Limits:	41-100	45-111

*- Outside of specification
(1) The result for one or both determinations was less than five times the MRL.
(2) The unspiked result was more than four times the spike added.

1042 2100311 131 8576

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-611738.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: willie.hallmon@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Env LLC		Accreditations Required (See note): State Program - Alabama		Job #: 680-183977-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 5/29/2020			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (PCB Homologs)/ PCB Homologs	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
EQUIPMENT BLANK (680-183977-7)	5/18/20	07:47 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	5/20/2020 1653				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 5/21/20 10:31	Company ELLE

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.3

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 285141

Group Number(s): 2100311

Client: EUROFINS TESTAMERICA

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Date:	05/21/2020
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	AL		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	Total Trip Blank Qty:	0
Samples Chilled:	Yes	Air Quality Samples Present:	No
Paperwork Enclosed:	Yes		
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Julissa Rivera-Santa

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	46730060WS	3.3	IR	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: JL, WRG, STR	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113811-43642.1
Client Contact: Ms. Elaine Higgins	Phone: 713-522-6300	E-Mail: willie.hallmon@testamericainc.com		Page: Page 1 of 4
Company: GSI Environmental, Inc		Analysis Requested		Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Houston	TAT Requested (days): standard			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 0043964402(CERCLA)			
Email: ~~cahiggins@gsi-net.com~~ WBSmith@gsi-net.com WRGodwin@gsi-net.com	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A	8260B - Trichloroethene	8081B_8082A - PCB	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered	6010C - (MOD) Cobalt/Manganese	680 - PCB Homologs	6010C - Manganese	8141B - Parathion	8270D - (MOD) 4-NP	6010C - (MOD) Cobalt/Manganese- FF	680 - Dissolved PCB Homologs - Field Filtered	6010C - (MOD) Manganese - Field Filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N	D	N	D	N	N	D	N	D		
~~OW-10~~				Water																
~~OW-10 MS~~				Water																
~~OW-10 MSD~~				Water																
~~Field Duplicate 4~~				Water																
~~OW-10 (Filtered)~~				Water																
~~Field Duplicate 4 (Field Filtered)~~				Water																
~~OWR-03S~~				Water																
~~OWR-15D~~				Water																
~~T-06~~				Water																
~~OWR-11~~				Water																
T-04	5/16/20	16:35	G	Water	M	N			X				X						3	

680-183977 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) LEVEL II	Special Instructions/QC Requirements: 7470A - only Mercury

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: ~~Fed~~ Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Bonda	05-19-20	0940
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
	1.3 | 2.2 | 2.0 | 1.6 | 1.3 | 3.6 | 3.6 (CF)	1.7 | 2.6 | 2.4 | 2.0 | 1.7 | 4.0°c 4.3

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: JL, WRG, STR	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113811-43642.2
Client Contact: Ms. Elaine Higgins	Phone:	E-Mail: willie.hallmon@testamericainc.com		Page: Page 2 of 4
Company: GSI Environmental, Inc				Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days):			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 0043964402(CERCLA)			
Email: eahiggins@gsi-net.com	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A	8260B - Trichloroethene	8081B_8082A - PCB	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered	6010C - (MOD) Cobalt/Manganese	680 - PCB Homologs	6010C - Manganese	8141B - Parathion	8270D - (MOD) 4-NP	6010C - (MOD) Cobalt/Manganese- FF	680 - Dissolved PCB Homologs - Field Filtered	6010C - (MOD) Manganese - Field Filtered		Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N	D	N	D	N	N	D	N	D			
~~WEL-04~~				Water																	
~~WEL-04~~				Water																	
~~OWR-13~~				Water																	
~~T-18~~				Water																	
~~OWR-14B~~				Water																	
~~FIELD DUPLICATE 2~~				Water																	
~~T-09~~ T-09	5/16/20	16:15	G	Water	N	N			X					X	X					6	
~~T-10~~ T-10	5/16/20	18:55	G	Water	N	N			X					X	X					6	
FIELD DUPLICATE 3	5/16/20	—	G	Water	N	N			X					X	X					6	
T-20	5/15/20	18:24	G	Water	N	N	X		X		~~X~~ WO		X							3	late shipment
TRIP BLANK 20200518C	5/18/20	—	G	Water	N	N		X					~~X~~ WO							2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level II

Special Instructions/QC Requirements: 7470A - only Mercury

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			CBaucom	05-19-20	0940
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: JL, WRG, STR	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113811-43642.3
Client Contact: Ms. Elaine Higgins	Phone:	E-Mail: willie.hallmon@testamericainc.com		Page: Page 3 of 4
Company: GSI Environmental, Inc				Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days):			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 0043964402(CERCLA)			
Email: eahiggins@gsi-net.com	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A	8260B - Trichloroethene	8081B_8082A - PCB	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered	6010C - (MOD) Cobalt/Manganese	680 - PCB Homologs	6010C - Manganese	8141B - Parathion	8270D - (MOD) 4-NP	6010C - (MOD) Cobalt/Manganese- FF	680 - Dissolved PCB Homologs - Field Filtered	6010C - (MOD) Manganese - Field Filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	A	N	N	D	N	D	N	D	D	N	D	X	
EQUIPMENT BLANK	5/18/20	7:47	G	Water	N	N	X	X	X			X	X	X	X				12	Mn + Beryllium
~~QWR-11 (Filtered)~~				Water																
T-04 (Filtered)	5/16/20	16:35	G	Water	Y	N				X								X	3	
~~WEL-01 (Filtered)~~				Water																
~~WEL-04 (Filtered)~~				Water																
~~QWR-13 (Filtered)~~				Water																
~~T-18 (Filtered)~~				Water																
~~QWR-14D (Filtered)~~				Water																
~~Field Duplicate 2 (Field Filtered)~~				Water																
~~QWR-15D (Filtered)~~				Water																
~~T-06 (Filtered)~~				Water																

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level II

Special Instructions/QC Requirements: 7470A - only mercury

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	05-19-20	0940
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: JL, WRG, STR	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113811-43642.4
Client Contact: Ms. Elaine Higgins	Phone: 713-522-6300	E-Mail: willie.hallmon@testamericainc.com		Page: Page 4 of 4
Company: GSI Environmental, Inc				Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days): Standard			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 0043964402(CERCLA)			
Email: ~~cahiggins@gsi-net.com~~ WBSmith@gsi-net.com WRGodwin@gsi-net.com	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A	8260B - Trichloroethene	8081B_8082A - PCB	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered	6010C - (MOD) Cobalt/Manganese	680 - PCB Homologs	6010C - Manganese	8141B - Parathion	8270D - (MOD) 4-NP	6010C - (MOD) Cobalt/Manganese- FF	680 - Dissolved PCB Homologs - Field Filtered	6010C - (MOD) Manganese - Field Filtered		Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N	D	N	D	N	N	D	N	D			
T-20 (Filtered)	5/15/20	18:24	G	Water	Y	N												X		1	late shipment
~~T-9F~~ T-9F WRG	5/16/20	16:15	G	Water	Y	N				X								~~X~~ WRG		2	Aroclors

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify): Level II

Special Instructions/QC Requirements: 7470A -only Mercury

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	05-19-20 0940	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins

Client Information	Sampler: JL, WRG, STR	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113811-43642.1
Client Contact: Ms. Elaine Higgins	Phone: 713-522-6300	E-Mail: willie.hallmon@testamericainc.com		Page: Page 1 of 4
Company: GSI Environmental, Inc				Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days): standard			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 0043964402(CERCLA)			
Email: ~~ehiggins@gsi-net.com~~ WBSmith@gsi-net.com WRGodwin@gsi-net.com	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil/Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A	8260B - Trichloroethene	8081B_8082A - PCB	8081B_8082A - [MOD] Dissolved PCBs - Field Filtered	6010C - [MOD] Cobalt/Manganese	680 - PCB Homologs	6010C - Manganese	8141B - Parathion	8270D - [MOD] 4-NP	6010C - [MOD] Cobalt/Manganese - FF	680 - Dissolved PCB Homologs - Field Filtered	6010C - [MOD] Manganese - Field Filtered	Total Number of containers	Special Instructions/Note
Preservation Code:					X	X	D	A	N	N	D	N	D	N	N	D	N	D	X	
~~OW-10~~				Water																
~~OW-10 MS~~				Water																
~~OW-10 MSD~~				Water																
~~Field Duplicate 4~~				Water																
~~OW-10 (Filtered)~~				Water																
~~Field Duplicate 4 (Field Filtered)~~				Water																
~~OWR-015~~				Water																
~~OWR-15D~~				Water																
~~T-05~~				Water																
~~OWR-FF~~				Water																
T-04	5/16/20	16:35	G	Water	N	N			X				X						3	

680-183977 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify): LEVEL II

Special Instructions/QC Requirements: 7470A - only Mercury

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: FedEx

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			Rounda	05-19-20	0940
4.2/4.3/3.7 (CF)	4.6/4.7/4.12		Rounda	05-20-20	0930

Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.: 1.3/2.2/2.0/1.6/1.3/3.6/3.6 (CF) | Cooler Temperature(s) °C and Other Remarks: 1.7/2.6/2.4/2.0/1.7/4.0°C 4.0

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins

Client Information	Sampler: JL, WRG, STR	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113811-43642.2
Client Contact: Ms. Elaine Higgins	Phone:	E-Mail: willie.hallmon@testamericainc.com		Page: Page 2 of 4
Company: GSI Environmental, Inc				Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days):			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 0043964402(CERCLA)			
Email: eahiggins@gsi-net.com	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wwater, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A	8260B - Trichloroethene	8081B, 8082A - PCB	8081B, 8082A - (MOD) Dissolved PCBs - Field Filtered	6010C - (MOD) Cobalt/Manganese	680 - PCB Homologs	6010C - Manganese	8141B - Parathion	8270D - (MOD) 4-NP	6010C - (MOD) Cobalt/Manganese - FF	680 - Dissolved PCB Homologs - Field Filtered	6010C - (MOD) Manganese - Field Filtered		Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	D	A	N	N	D	N	D	N	N	D	N	D		X	
~~WELL-01~~				Water																	
~~WELL-04~~				Water																	
~~OWS-12~~				Water																	
~~T-18~~				Water																	
~~OWR-MW~~				Water																	
~~FIELD DUPLICATE 2~~				Water																	
~~T-09~~ T-09	5/16/20	16:15	G	Water	N	N			X					X	X					6	
~~T-10~~ T-10	5/16/20	18:55	G	Water	N	N			X					X	X					6	
FIELD DUPLICATE 3	5/16/20	—	G	Water	N	N			X					X	X					6	
T-20	5/15/20	18:24	G	Water	N	N	X		X		[redacted]		X							3	late shipment
TRIP BLANK 20200518C	5/18/20	—	G	Water	N	N		X					[redacted] WG							2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify): Level II

Special Instructions/QC Requirements: 7470A - Only Mercury

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fedex

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			C Bauda	05-19-20	0940
			C Bauda	05-20-20	0930

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins

Client Information	Sampler: JL, WRG, STR	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113811-43642.3
Client Contact: Ms. Elaine Higgins	Phone:	E-Mail: willie.hallmon@testamericainc.com		Page: Page 3 of 4
Company: GSI Environmental, Inc.				Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days):			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 0043964402(CERCLA)			
Email: eahiggins@gsi-net.com	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A	8260B - Trichloroethene	8081B_8082A - PCB	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered	6010C - (MOD) Cobalt/Manganese	680 - PCB Homologs	6010C - Manganese	8141B - Parathion	8270D - (MOD) 4-NP	6010C - (MOD) Cobalt/Manganese- FF	680 - Dissolved PCB Homologs - Field Filtered	6010C - (MOD) Manganese - Field Filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	A	N	N	D	N	D	N	N	D	N	D	X	
EQUIPMENT BLANK	5/18/20	7:47	G	Water	N	N	X	X	X			X	X	X	X				12	Mn + Beryllium
~~QWR-11 (Filtered)~~				~~Water~~																
T-04 (Filtered)	5/16/20	16:35	G	Water	Y	N				X								X	3	
~~WEL-01 (Filtered)~~				~~Water~~																
~~WEL-04 (Filtered)~~				~~Water~~																
~~QWR-13 (Filtered)~~				~~Water~~																
~~T-10 (Filtered)~~				~~Water~~																
~~QWR-14D (Filtered)~~				~~Water~~																
~~Field Duplicate 2 (Field Filtered)~~				~~Water~~																
~~QWR-15D (Filtered)~~				~~Water~~																
~~T-06 (Filtered)~~				~~Water~~																

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify): Level II

Special Instructions/QC Requirements: 7470A - only mercury

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fedex

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			[signature]	05-19-20	0940
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			[signature]	05-20-20	0830
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins

Client Information	Sampler: SL, WRG, STR	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113811-43642.4
Client Contact: Ms. Elaine Higgins	Phone: 713-522-6300	E-Mail: willie.hallmon@testamericainc.com		Page: Page 4 of 4
Company: GSI Environmental, Inc		Analysis Requested		Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Houston	TAT Requested (days): Standard			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 0043964402(CERCLA)			
Email: ~~cahiggins@gsi-net.com~~ WPSmith@gsi-net.com WRGodwin@gsi-net.com	WO #:			Other:
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A	8260B - Trichloroethene	8081B_8082A - PCB	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered	6010C - (MOD) Cobalt/Manganese	680 - PCB Homologs	6010C - Manganese	8141B - Parathion	8270D - (MOD) 4-NP	6010C - (MOD) Cobalt/Manganese - FF	680 - Dissolved PCB Homologs - Field Filtered	6010C - (MOD) Manganese - Field Filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N	D	N	D	N	N	D	N	D		
T-20 (Filtered)	5/15/20	18:24	G	Water	Y	N												X	1	late shipment
~~T-9F~~ T-9F use	5/16/20	16:15	G	Water	Y	N				X								X use	2	Aroclors

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify): level II	Special Instructions/QC Requirements: 7470A - only Mercury
Empty Kit Relinquished by:	Date: Time: Method of Shipment: Fedex

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			[signature]	05-19-20	0940
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			[signature]	05-20-20	0930
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-611736.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: willie.hallmon@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Alabama		Job #: 680-183977-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 5/29/2020			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
T-09 (680-183977-2)	5/16/20	16:15 Central		Water			X	2	
T-10 (680-183977-3)	5/16/20	18:56 Central		Water			X	2	
FIELD DUPLICATE (680-183977-4)	5/16/20	Central		Water			X	2	

680-183977 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	5-20-20 1600	TA	[signature]	5/21/20 0935	STADEW
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.2, IR8, +0.6, DS, 5/21/20

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-611737.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: willie.hallmon@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Alabama		Job #: 680-183977-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 5/29/2020			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Anniston CERCLA April 2020	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
EQUIPMENT BLANK (680-183977-7)	5/18/20	07:47 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	5-20-20 1600	TA		5-21-20 0935	ETA DEW
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.2, IR8, +0.6c, DS, 5/21/20

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-183977-1

Login Number: 183977
List Number: 1
Creator: Banda, Christy S

List Source: Eurofins TestAmerica, Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-183977-1

Login Number: 183977
List Number: 2
Creator: Schade, Daniel B

List Source: Eurofins TestAmerica, Denver
List Creation: 05/21/20 02:10 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: RCRA Groundwater Monitoring Project Number: 680-183984-1
Reviewer: Ben Smith Validation Date: 3 December 2020

Laboratory: Eurofins TestAmerica Savannah SDG #: ANST183984
Analytical Method (type and no.): VOCs (8260B), SVOCS (8270D), Pesticides (8141B), PCBs (8081B/8082A)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: MW-13A, OW-08A, OW-08A F, MW-08, Purge Water, MW-14, MW-11A, OW-21A, OW-21A F, OW-22, OW-22F, MW-12A, OW-06A, MW-09A, MW-01B, Trip Blank 20200518R

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	**YES**	**NO**	**NA**	**COMMENTS**
a) Sampling dates noted?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	Trip Blank 20200518R collected.
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☒	☐	☐	
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☒	☐	☐	A piece of dedicated equipment from MW-14 was missing (tubing elbow connector), so the same piece of equipment was taken from a nearby well (OW-21A), decontaminated, and used to purge and sample MW-14. OW-21A was sampled prior to MW-14 and had a Parathion concentration of 4900 ug/L, which may have affected the Parathion detection in MW-14 (1.8 ug/L), so this detection is qualified as estimated (J).
j) Does the laboratory narrative indicate deficiencies?	☒	☐	☐	

Note Deficiencies: Detections of PCB Aroclors in OW-08A and OW-22 did not closely match the lab's PCB Aroclor standards, likely due to "weathering or other environmental processes", and as such were quantified as PCB-1248. These detections of PCB-1248 are qualified as estimated (J).

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☐	☒	☐	Not signed by Field Personnel
c) Were samples received in good condition?	☐	☒	☐	2 coolers shipped on 5/18/20 were apparently lost in transit by FedEx and did not arrive to the lab with the other coolers that arrived on 5/19/20 and 5/20/20. However, these 2 coolers were later found by FedEx and delivered to TestAmerica Savannah on 5/21/20 at temperatures of 9.0 °C and 9.2°C. These 2 coolers contained the following samples [Sample ID – method (# of bottles)]: MW-11A – 8270D (2); OW-06A – 8141B (1), 8270D (2), 8081B/8082A (1), MW-09A – 8141B (2), 8270D (2), 8081B/8082A (2); and MW-01B - 8141B (2), 8270D (2), 8081B/8082A (2). To minimize holding time/preservative issues, the lab was instructed to analyze 8270D from 8081B/8082A bottles received within temperature on 5/19/20 for sample IDs MW-11A and OW-06A. Extraction for method 8081B/8082A was requested to be completed within 7 days for any sample IDs received on 5/21/20 since the 8081B/8082A bottles were either received > 6 °C or were used for 8270D analysis, requiring use of the 8270D bottles received > 6 °C. Also due in part to the shipping issues described above, an inter-lab transfer error caused the extraction for method 8141B bottles for MW-01B to happen outside of technical holding time (7 days).

General (reference QAPP or Method)	**YES**	**NO**	**NA**	**COMMENTS**
a) Were hold times met for sample pretreatment?	☐	☒	☐	The shipping issues above caused the extraction for method 8141B for MW-01B to occur after 10 days, or longer than the technical holding time of 7 days. Since

these samples also were received > 6 °C, the non-detect results for method 8141B in MW-01B are rejected, per the National Functional Guidelines (NFG).

b)	Were hold times met for sample analysis?	☒	☐	☐	
c)	Were the correct preservatives used?	☐	☒	☐	Due to the shipping issues described above, 8270D and 8141B results for MW-09A and 8270D results for MW-01B need to be qualified as estimated (J) for detections and as estimated (UJ) for non-detects since the samples were received ≥ 6 °C. As discussed above, the results for 8141B for MW-01B are rejected (R) due to exceedances of both preservative temperature and holding time.
d)	Was the correct method used?	☒	☐	☐	
e)	Were appropriate reporting limits achieved?	☐	☒	☐	Detection of 1,4-Dichlorobenzene in OW-21A at 4 ug/L was between MDL (0.51 ug/L) and PQL (10 ug/L) because the instrument was not calibrated to the proper RL, so therefore this result is qualified as estimated (J). Dilutions resulted in elevated RLs for PCB Aroclors and tetraethyldithiopyrophosphate in OW-21A,
f)	Were any sample dilutions noted?	☒	☐	☐	Dilutions in OW-21A for 8081/8082 (DF=10), 8141B (DF=1000), 4-nitrophenol (DF=100), O,O,O-triethylphosphorothioate (DF=5) and 8260B (DF=50).
g)	Were any matrix problems noted?	☒	☐	☐	Dilution of OW-21A for method 8081/8082 was required due to the "nature of the sample matrix," which resulted in elevated RLs and surrogate recovery issues. Surrogate recovery issues in MW-01B for 8260B were also attributed to matrix interference.

Blanks		**YES**	**NO**	**NA**	**COMMENTS**
a)	Were analytes detected in the method blank(s)?	☐	☒	☐	
b)	Were analytes detected in the field blank(s)?	☐	☐	☒	
c)	Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d)	Were analytes detected in the trip blank(s)?	☐	☒	☐	

Laboratory Control Sample (LCS)		**YES**	**NO**	**NA**	**COMMENTS**
a)	Was a LCS analyzed once per SDG?	☒	☐	☐	
b)	Were the proper compounds included in the LCS?	☒	☐	☐	
c)	Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates		**YES**	**NO**	**NA**	**COMMENTS**
a)	Were field duplicates collected (note original and duplicate sample names)?				
		☐	☒	☐	
b)	Were field dup. precision criteria met (note RPD)?	☐	☐	☒	
c)	Were lab duplicates analyzed (note original and duplicate samples)?				Multiple LCSDs.
		☒	☐	☐	
d)	Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	All LCSD RPDs ≤ 28%

Blind Standards		**YES**	**NO**	**NA**	**COMMENTS**
a)	Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b)	Was the %D within control limits?	☐	☐	☒	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	No MS/MSD samples in this report.
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☒	

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☒	☐	BFB recovered high in the MW-01B, MW-08, LCS, LCSD, and MB. However, VOCs in MW-01B and MW-08 were all non-detect, so no data were qualified. Recovery of TCX in OW-21A F recovered high, but no PCBs were detected, so no data was qualified. Chlormefos recovered low for 8141B in OW-21A, so the detection of Parathion is qualified as estimated and the non-detect of Tetraethyldithiopyrophosphate is qualified as estimated (UJ).
b) Were surrogate recoveries not calculated due to dilutions?	☒	☐	☐	Recovery of DCB and TCX for OW-21A were not calculated due to dilution.

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:

MW-14 Parathion detection qualified as estimated (J) due to field personnel error related to dedicated sampling equipment. PCB-1248 detections in OW-08A and OW-22 qualified as estimated (J) due to mismatch with lab standards. Non-detect results for 8141B for MW-01B are rejected (R) due to exceedances of preservative temperature and holding time due to FedEx shipping issues. Non-detect results for 8270D in MW-09A and MW-01B and for 8141B in MW-09A are qualified as estimated (UJ) due to exceedances of temperature due to FedEx shipping issues. Qualify the 1,4-DCB detection in OW-21A as estimated (J) since it falls between the MDL and PQL since the instrument was not calibrated to the proper RL. Qualify the Parathion detection as estimated (J) and the non-detect of Tetraethyldithiopyrophosphate as estimated (UJ) for OW-21A due to low Chlormefos surrogate recovery.

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
MW-14	Parathion	1.8 ug/L	J	Field personnel error related to dedicated sampling equipment
OW-08A	PCB-1248	5.7 ug/L	J	Mismatch with lab PCB Aroclor standards
OW-22	PCB-1248	1.1 ug/L	J	Mismatch with lab PCB Aroclor standards
MW-01B	Parathion	<1 ug/L	R	Extracted after holding time and received > 6°C
MW-01B	Tetraethyldithiopyrophosphate	<0.5 ug/L	R	Extracted after holding time and received > 6°C
MW-09A	Parathion	<1 ug/L	UJ	Received > 6°C
MW-09A	Tetraethyldithiopyrophosphate	<0.5 ug/L	UJ	Received > 6°C
MW-01B	1,2-Dichlorobenzene	<1 ug/L	UJ	Received > 6°C
MW-01B	1,4-Dichlorobenzene	<1 ug/L	UJ	Received > 6°C
MW-01B	4-Nitrophenol	<25 ug/L	UJ	Received > 6°C
MW-01B	O,O,O-Triethylphosphorothioate	<10 ug/L	UJ	Received > 6°C
MW-09A	1,2-Dichlorobenzene	<1 ug/L	UJ	Received > 6°C
MW-09A	1,4-Dichlorobenzene	<1 ug/L	UJ	Received > 6°C
MW-09A	4-Nitrophenol	<25 ug/L	UJ	Received > 6°C
MW-09A	O,O,O-Triethylphosphorothioate	<10 ug/L	UJ	Received > 6°C
OW-21A	1,4-Dichlorobenzene	4 ug/L	J	Detected concentration is between the lab's MDL and PQL
OW-21A	Parathion	4900	J	Low Chlormefos surrogate recovery
OW-21A	Tetraethyldithiopyrophosphate	<160 ug/L	UJ	Low Chlormefos surrogate recovery

Signature: Wade Benjamin Smith Date: 3 December 2020

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: RCRA Groundwater Monitoring Project Number: 680-183984-1
Reviewer: Ben Smith Validation Date: 3 December 2020

Laboratory: Eurofins TestAmerica Savannah SDG #: ANST183984
Analytical Method (type and no.): Metals (6010C), Hg (7470A)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: OW-08A, OW-08A F, MW-08, MW-14, OW-21A, OW-21A F, OW-22, OW-22F, OW-06A, MW-09A, MW-01B

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	YES	NO	NA	COMMENTS
a) Sampling dates noted?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☐	☒	☐	
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☒	☐	☐	
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☒	☐	☐	A piece of dedicated equipment from MW-14 was missing (tubing elbow connector), so the same piece of equipment was taken from a nearby well (OW-21A), decontaminated, and used to purge and sample MW-14. However, no metals were detected in MW-14, so no data requires qualification.
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	
Note Deficiencies:				

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	☒	☐	☐	.
b) Was the COC signed by both field and laboratory personnel?	☐	☒	☐	Not signed by Field Personnel
c) Were samples received in good condition?	☒	☐	☐	

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☐	☒	☐	
g) Were any matrix problems noted?	☐	☒	☐	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	**YES**	**NO**	**NA**	**COMMENTS**
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	**YES**	**NO**	**NA**	**COMMENTS**
a) Were field duplicates collected (note original and duplicate sample names)?	☐	☒	☐	
b) Were field dup. precision criteria met (note RPD)?	☐	☐	☐	
c) Were lab duplicates analyzed (note original and duplicate samples)?	☐	☒	☐	
d) Were lab dup. precision criteria met (note RPD)?	☐	☐	☒	

Blind Standards	**YES**	**NO**	**NA**	**COMMENTS**
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was MS accuracy criteria met?	☐	☐	☒	No MS/MSD samples in this report.
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☐	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:
No data requires qualification.

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: Wade Benjamin Smith Date: 3 December 2020

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ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-183984-1
Client Project/Site: Anniston RCRA April 2020
Revision: 1

For:
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Attn: Ben Smith

Amy Weinberg

Authorized for release by:
2/5/2021 2:01:36 PM

Amy Weinberg, Project Manager II
(813)885-7427
amy.weinberg@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183984-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate recovery exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
H	Sample was prepped or analyzed beyond the specified holding time
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate recovery exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 680-183984-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

Job Narrative
680-183984-1

Comments
No additional comments.

Receipt
The samples were received on 5/19/2020 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 9 coolers at receipt time were 1.7º C, 1.7º C, 2.0º C, 2.4º C, 2.6º C, 4.0º C, 4.0º C, 9.0º C and 9.2º C.

The following sample(s) for method 8270D was received at the laboratory outside the required temperature criteria due to a shipping delay. The client was contacted regarding this issue, and the laboratory was instructed to use (1) 1L unpreserved container received within acceptable temperature on 5/19/20 for method 8081/8082 to analyze 8270D within temperature criteria.

The report was revised on 2/5/2021. For sample IDs 680-183984-1 and 680-183984-15 the client indicated via email that the collection dates and times listed on the chain of custody were incorrect. The client provided the correct collection dates and times

GC/MS VOA
Method 8260B: Surrogate recovery for the following sample was outside the upper control limit: (MB 680-620364/10). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: Surrogate recovery for the following sample was outside the upper control limit: MW-01B (680-183984-15). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: Surrogate recovery for the following sample was outside control limits: MW-01B (680-183984-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: The following sample was diluted due to the abundance of non-target analytes: OW-21A (680-183984-8). Elevated reporting limits (RLs) are provided.

Method 8260B: Surrogate recovery for the following sample was outside the upper control limit: MW-08 (680-183984-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following analyte has been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: o,o',o''-Triethylphosphorothioate. This analyte may have a %D >20% but must be <30% in the initial calibration verification (ICV).

Method 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: OW-21A (680-183984-8). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B/8082A: The following samples appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: OW-08A (680-183984-2), Purge Water (680-183984-5) and OW-22 (680-183984-10). The sample(s) has been quantified and reported as Aroclor 1248. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

Method 8081B/8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: OW-21A F (680-183984-9). These results have been reported and qualified.

Job ID: 680-183984-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

Method 8081B/8082A: The following sample required a dilution due to the nature of the sample matrix: OW-21A (680-183984-8). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B/8082A: The following sample was diluted due to the nature of the sample matrix: OW-21A (680-183984-8). Elevated reporting limits (RLs) are provided.

Methods 8141B: The following sample was diluted to bring the concentration of target analytes within the calibration range: OW-21A (680-183984-8). Elevated reporting limits (RLs) are provided.
8141B: The following sample was received outside of holding time. Project manager was notified and extracted as per Project Manager's and client's order. MW-01B (680-183984-15) preparation batch 280-496195 Method: 3510C/8141B

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183984-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-183984-1	MW-13A	Water	05/16/20 10:29	05/19/20 09:40	
680-183984-2	OW-08A	Water	05/15/20 18:26	05/19/20 09:40	
680-183984-3	OW-08A F	Water	05/15/20 18:26	05/19/20 09:40	
680-183984-4	MW-08	Water	05/18/20 10:08	05/19/20 09:40	
680-183984-5	Purge Water	Water	05/18/20 13:58	05/19/20 09:40	
680-183984-6	MW-14	Water	05/18/20 10:30	05/19/20 09:40	
680-183984-7	MW-11A	Water	05/16/20 16:47	05/19/20 09:40	
680-183984-8	OW-21A	Water	05/16/20 19:07	05/19/20 09:40	
680-183984-9	OW-21A F	Water	05/16/20 19:07	05/19/20 09:40	
680-183984-10	OW-22	Water	05/16/20 19:04	05/19/20 09:40	
680-183984-11	OW-22 F	Water	05/16/20 19:04	05/19/20 09:40	
680-183984-12	MW-12A	Water	05/16/20 10:41	05/19/20 09:40	
680-183984-13	OW-06A	Water	05/18/20 12:07	05/19/20 09:40	
680-183984-14	MW-09A	Water	05/18/20 09:52	05/19/20 09:40	
680-183984-15	MW-01B	Water	05/16/20 09:47	05/19/20 09:40	
680-183984-16	Trip Blank 20200518R	Water	05/18/20 00:00	05/19/20 09:40	

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183984-1

Client Sample ID: MW-13A — Lab Sample ID: 680-183984-1

No Detections.

Client Sample ID: OW-08A — Lab Sample ID: 680-183984-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	5.7		0.50	0.10	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: OW-08A F — Lab Sample ID: 680-183984-3

No Detections.

Client Sample ID: MW-08 — Lab Sample ID: 680-183984-4

No Detections.

Client Sample ID: Purge Water — Lab Sample ID: 680-183984-5

No Detections.

Client Sample ID: MW-14 — Lab Sample ID: 680-183984-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Parathion	1.8		1.0	0.14	ug/L	1		8141B	Total/NA

Client Sample ID: MW-11A — Lab Sample ID: 680-183984-7

No Detections.

Client Sample ID: OW-21A — Lab Sample ID: 680-183984-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	14		13	13	ug/L	50		8260B	Total/NA
1,2-Dichlorobenzene	13		1.0	0.50	ug/L	1		8270D	Total/NA
1,4-Dichlorobenzene	4.0	J	1.0	0.51	ug/L	1		8270D	Total/NA
o,o',o''-Triethylphosphorothioate - DL	310		10	4.8	ug/L	5		8270D	Total/NA
4-Nitrophenol - DL2	35000		180	180	ug/L	100		8270D	Total/NA
PCB-1248	35		1.0	1.0	ug/L	10		8081B/8082A	Total/NA
Parathion	4900		140	140	ug/L	1000		8141B	Total/NA
Cobalt	0.028		0.010	0.0010	mg/L	1		6010C	Total Recoverable
Manganese	0.70		0.010	0.0010	mg/L	1		6010C	Total Recoverable

Client Sample ID: OW-21A F — Lab Sample ID: 680-183984-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt, Dissolved	0.030		0.010	0.0010	mg/L	1		6010C	Dissolved
Manganese, Dissolved	0.76		0.010	0.0010	mg/L	1		6010C	Dissolved

Client Sample ID: OW-22 — Lab Sample ID: 680-183984-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1.1	p	0.50	0.10	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: OW-22 F — Lab Sample ID: 680-183984-11

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Savannah

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183984-1

Client Sample ID: MW-12A — Lab Sample ID: 680-183984-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o,o',o''-Triethylphosphorothioate	10		10	0.95	ug/L	1		8270D	Total/NA

Client Sample ID: OW-06A — Lab Sample ID: 680-183984-13

No Detections.

Client Sample ID: MW-09A — Lab Sample ID: 680-183984-14

No Detections.

Client Sample ID: MW-01B — Lab Sample ID: 680-183984-15

No Detections.

Client Sample ID: Trip Blank 20200518R — Lab Sample ID: 680-183984-16

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-13A

Date Collected: 05/16/20 10:29
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		05/22/20 18:50	06/02/20 22:36	1
o,o',o''-Triethylphosphorothioate	<10		10	0.95	ug/L		05/22/20 18:50	06/02/20 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*43*		*32 - 113*	*05/22/20 18:50*	*06/02/20 22:36*	*1*
2-Fluorophenol	*45*		*26 - 109*	*05/22/20 18:50*	*06/02/20 22:36*	*1*
Nitrobenzene-d5	*50*		*32 - 118*	*05/22/20 18:50*	*06/02/20 22:36*	*1*
Phenol-d5	*47*		*27 - 110*	*05/22/20 18:50*	*06/02/20 22:36*	*1*
Terphenyl-d14	*50*		*10 - 126*	*05/22/20 18:50*	*06/02/20 22:36*	*1*
2,4,6-Tribromophenol	*45*		*39 - 124*	*05/22/20 18:50*	*06/02/20 22:36*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		06/02/20 17:20	06/05/20 00:29	1
PCB-1221	<0.50		0.50	0.091	ug/L		06/02/20 17:20	06/05/20 00:29	1
PCB-1232	<0.50		0.50	0.12	ug/L		06/02/20 17:20	06/05/20 00:29	1
PCB-1242	<0.50		0.50	0.091	ug/L		06/02/20 17:20	06/05/20 00:29	1
PCB-1248	<0.50		0.50	0.10	ug/L		06/02/20 17:20	06/05/20 00:29	1
PCB-1254	<0.50		0.50	0.053	ug/L		06/02/20 17:20	06/05/20 00:29	1
PCB-1260	<0.50		0.50	0.057	ug/L		06/02/20 17:20	06/05/20 00:29	1
PCB-1268	<0.50		0.50	0.11	ug/L		06/02/20 17:20	06/05/20 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*14 - 130*	*06/02/20 17:20*	*06/05/20 00:29*	*1*
Tetrachloro-m-xylene	*61*		*40 - 130*	*06/02/20 17:20*	*06/05/20 00:29*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/21/20 16:31	05/29/20 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*101*		*60 - 154*	*05/21/20 16:31*	*05/29/20 19:21*	*1*
Chlormefos	*91*		*49 - 171*	*05/21/20 16:31*	*05/29/20 19:21*	*1*

Client Sample ID: OW-08A

Date Collected: 05/15/20 18:26
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/29/20 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*05/29/20 16:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*		*05/29/20 16:49*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 122*		*05/29/20 16:49*	*1*
4-Bromofluorobenzene (Surr)	*118*		*80 - 120*		*05/29/20 16:49*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.51	ug/L		05/22/20 18:50	06/02/20 22:58	1
1,4-Dichlorobenzene	<1.0		1.0	0.52	ug/L		05/22/20 18:50	06/02/20 22:58	1

Client Sample ID: OW-08A

Date Collected: 05/15/20 18:26
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		05/22/20 18:50	06/02/20 22:58	1
Indeno[1,2,3-cd]pyrene	<10		10	0.96	ug/L		05/22/20 18:50	06/02/20 22:58	1
o,o',o''-Triethylphosphorothioate	<10		10	0.96	ug/L		05/22/20 18:50	06/02/20 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*32 - 113*	*05/22/20 18:50*	*06/02/20 22:58*	*1*
2-Fluorophenol	*68*		*26 - 109*	*05/22/20 18:50*	*06/02/20 22:58*	*1*
Nitrobenzene-d5	*78*		*32 - 118*	*05/22/20 18:50*	*06/02/20 22:58*	*1*
Phenol-d5	*70*		*27 - 110*	*05/22/20 18:50*	*06/02/20 22:58*	*1*
Terphenyl-d14	*78*		*10 - 126*	*05/22/20 18:50*	*06/02/20 22:58*	*1*
2,4,6-Tribromophenol	*82*		*39 - 124*	*05/22/20 18:50*	*06/02/20 22:58*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		06/02/20 17:20	06/05/20 00:43	1
PCB-1221	<0.50		0.50	0.091	ug/L		06/02/20 17:20	06/05/20 00:43	1
PCB-1232	<0.50		0.50	0.12	ug/L		06/02/20 17:20	06/05/20 00:43	1
PCB-1242	<0.50		0.50	0.091	ug/L		06/02/20 17:20	06/05/20 00:43	1
PCB-1248	**5.7**		0.50	0.10	ug/L		06/02/20 17:20	06/05/20 00:43	1
PCB-1254	<0.50		0.50	0.053	ug/L		06/02/20 17:20	06/05/20 00:43	1
PCB-1260	<0.50		0.50	0.057	ug/L		06/02/20 17:20	06/05/20 00:43	1
PCB-1268	<0.50		0.50	0.11	ug/L		06/02/20 17:20	06/05/20 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*14 - 130*	*06/02/20 17:20*	*06/05/20 00:43*	*1*
Tetrachloro-m-xylene	*81*		*40 - 130*	*06/02/20 17:20*	*06/05/20 00:43*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/21/20 16:31	05/29/20 20:00	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.16	ug/L		05/21/20 16:31	05/29/20 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*107*		*60 - 154*	*05/21/20 16:31*	*05/29/20 20:00*	*1*
Chlormefos	*83*		*49 - 171*	*05/21/20 16:31*	*05/29/20 20:00*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		05/20/20 10:42	05/21/20 18:40	1
Manganese	<0.010		0.010	0.0010	mg/L		05/20/20 10:42	05/21/20 18:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:30	05/26/20 19:20	1

Client Sample ID: OW-08A F

Date Collected: 05/15/20 18:26
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-3

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		05/29/20 16:59	06/08/20 23:05	1

Client Sample ID: OW-08A F

Lab Sample ID: 680-183984-3

Date Collected: 05/15/20 18:26

Matrix: Water

Date Received: 05/19/20 09:40

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 23:05	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 23:05	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 23:05	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 23:05	1
PCB-1254, Dissolved	<0.50		0.50	0.053	ug/L		05/29/20 16:59	06/08/20 23:05	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		05/29/20 16:59	06/08/20 23:05	1
PCB-1268, Dissolved	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/08/20 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*32*		*14 - 130*	*05/29/20 16:59*	*06/08/20 23:05*	*1*
Tetrachloro-m-xylene	*116*		*40 - 130*	*05/29/20 16:59*	*06/08/20 23:05*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.010		0.010	0.0010	mg/L		05/20/20 10:42	05/21/20 18:44	1
Manganese, Dissolved	<0.010		0.010	0.0010	mg/L		05/20/20 10:42	05/21/20 18:44	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:30	05/26/20 19:28	1

Client Sample ID: MW-08

Lab Sample ID: 680-183984-4

Date Collected: 05/18/20 10:08

Matrix: Water

Date Received: 05/19/20 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/30/20 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*80 - 120*		*05/30/20 17:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*05/30/20 17:07*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 122*		*05/30/20 17:07*	*1*
4-Bromofluorobenzene (Surr)	*121*	*X*	*80 - 120*		*05/30/20 17:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.51	ug/L		05/22/20 18:50	06/02/20 23:20	1
1,4-Dichlorobenzene	<1.0		1.0	0.52	ug/L		05/22/20 18:50	06/02/20 23:20	1
4-Nitrophenol	<25		25	1.8	ug/L		05/22/20 18:50	06/02/20 23:20	1
o,o',o''-Triethylphosphorothioate	<10		10	0.97	ug/L		05/22/20 18:50	06/02/20 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*32 - 113*	*05/22/20 18:50*	*06/02/20 23:20*	*1*
2-Fluorophenol	*63*		*26 - 109*	*05/22/20 18:50*	*06/02/20 23:20*	*1*
Nitrobenzene-d5	*68*		*32 - 118*	*05/22/20 18:50*	*06/02/20 23:20*	*1*
Phenol-d5	*65*		*27 - 110*	*05/22/20 18:50*	*06/02/20 23:20*	*1*
Terphenyl-d14	*80*		*10 - 126*	*05/22/20 18:50*	*06/02/20 23:20*	*1*
2,4,6-Tribromophenol	*80*		*39 - 124*	*05/22/20 18:50*	*06/02/20 23:20*	*1*

Client Sample ID: MW-08

Date Collected: 05/18/20 10:08
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-4

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		06/02/20 17:20	06/05/20 00:58	1
PCB-1221	<0.50		0.50	0.091	ug/L		06/02/20 17:20	06/05/20 00:58	1
PCB-1232	<0.50		0.50	0.12	ug/L		06/02/20 17:20	06/05/20 00:58	1
PCB-1242	<0.50		0.50	0.091	ug/L		06/02/20 17:20	06/05/20 00:58	1
PCB-1248	<0.50		0.50	0.10	ug/L		06/02/20 17:20	06/05/20 00:58	1
PCB-1254	<0.50		0.50	0.052	ug/L		06/02/20 17:20	06/05/20 00:58	1
PCB-1260	<0.50		0.50	0.057	ug/L		06/02/20 17:20	06/05/20 00:58	1
PCB-1268	<0.50		0.50	0.11	ug/L		06/02/20 17:20	06/05/20 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*14 - 130*	*06/02/20 17:20*	*06/05/20 00:58*	*1*
Tetrachloro-m-xylene	*68*		*40 - 130*	*06/02/20 17:20*	*06/05/20 00:58*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/21/20 16:31	05/29/20 20:39	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.16	ug/L		05/21/20 16:31	05/29/20 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*96*		*60 - 154*	*05/21/20 16:31*	*05/29/20 20:39*	*1*
Chlormefos	*81*		*49 - 171*	*05/21/20 16:31*	*05/29/20 20:39*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		06/01/20 10:31	06/02/20 00:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:30	05/26/20 19:15	1

Client Sample ID: Purge Water

Date Collected: 05/18/20 13:58
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-5

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		06/02/20 17:20	06/05/20 01:12	1
PCB-1221	<0.50		0.50	0.090	ug/L		06/02/20 17:20	06/05/20 01:12	1
PCB-1232	<0.50		0.50	0.12	ug/L		06/02/20 17:20	06/05/20 01:12	1
PCB-1242	<0.50		0.50	0.090	ug/L		06/02/20 17:20	06/05/20 01:12	1
PCB-1248	<0.50		0.50	0.10	ug/L		06/02/20 17:20	06/05/20 01:12	1
PCB-1254	<0.50		0.50	0.052	ug/L		06/02/20 17:20	06/05/20 01:12	1
PCB-1260	<0.50		0.50	0.057	ug/L		06/02/20 17:20	06/05/20 01:12	1
PCB-1268	<0.50		0.50	0.11	ug/L		06/02/20 17:20	06/05/20 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*41*		*14 - 130*	*06/02/20 17:20*	*06/05/20 01:12*	*1*
Tetrachloro-m-xylene	*40*		*40 - 130*	*06/02/20 17:20*	*06/05/20 01:12*	*1*

Client Sample ID: MW-14

Date Collected: 05/18/20 10:30
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/30/20 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*80 - 120*		*05/30/20 17:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*05/30/20 17:31*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 122*		*05/30/20 17:31*	*1*
4-Bromofluorobenzene (Surr)	*120*		*80 - 120*		*05/30/20 17:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.54	ug/L		05/22/20 18:50	06/03/20 00:27	1
1,4-Dichlorobenzene	<1.0		1.0	0.55	ug/L		05/22/20 18:50	06/03/20 00:27	1
4-Nitrophenol	<25		25	1.9	ug/L		05/22/20 18:50	06/03/20 00:27	1
o,o',o''-Triethylphosphorothioate	<10		10	1.0	ug/L		05/22/20 18:50	06/03/20 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*32 - 113*	*05/22/20 18:50*	*06/03/20 00:27*	*1*
2-Fluorophenol	*49*		*26 - 109*	*05/22/20 18:50*	*06/03/20 00:27*	*1*
Nitrobenzene-d5	*57*		*32 - 118*	*05/22/20 18:50*	*06/03/20 00:27*	*1*
Phenol-d5	*50*		*27 - 110*	*05/22/20 18:50*	*06/03/20 00:27*	*1*
Terphenyl-d14	*68*		*10 - 126*	*05/22/20 18:50*	*06/03/20 00:27*	*1*
2,4,6-Tribromophenol	*55*		*39 - 124*	*05/22/20 18:50*	*06/03/20 00:27*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.095	ug/L		06/02/20 17:20	06/05/20 01:26	1
PCB-1221	<0.50		0.50	0.10	ug/L		06/02/20 17:20	06/05/20 01:26	1
PCB-1232	<0.50		0.50	0.13	ug/L		06/02/20 17:20	06/05/20 01:26	1
PCB-1242	<0.50		0.50	0.10	ug/L		06/02/20 17:20	06/05/20 01:26	1
PCB-1248	<0.50		0.50	0.11	ug/L		06/02/20 17:20	06/05/20 01:26	1
PCB-1254	<0.50		0.50	0.058	ug/L		06/02/20 17:20	06/05/20 01:26	1
PCB-1260	<0.50		0.50	0.064	ug/L		06/02/20 17:20	06/05/20 01:26	1
PCB-1268	<0.50		0.50	0.13	ug/L		06/02/20 17:20	06/05/20 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*14 - 130*	*06/02/20 17:20*	*06/05/20 01:26*	*1*
Tetrachloro-m-xylene	*91*		*40 - 130*	*06/02/20 17:20*	*06/05/20 01:26*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	**1.8**		1.0	0.14	ug/L		05/21/20 16:31	05/29/20 21:18	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.16	ug/L		05/21/20 16:31	05/29/20 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*92*		*60 - 154*	*05/21/20 16:31*	*05/29/20 21:18*	*1*
Chlormefos	*77*		*49 - 171*	*05/21/20 16:31*	*05/29/20 21:18*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		05/20/20 10:42	05/21/20 18:21	1
Manganese	<0.010		0.010	0.0010	mg/L		05/20/20 10:42	05/21/20 18:21	1

Client Sample ID: MW-14

Date Collected: 05/18/20 10:30
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-6

Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:30	05/26/20 19:11	1

Client Sample ID: MW-11A

Date Collected: 05/16/20 16:47
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-7

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		05/22/20 18:50	06/03/20 00:49	1
o,o',o''-Triethylphosphorothioate	<10		10	0.95	ug/L		05/22/20 18:50	06/03/20 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*32 - 113*	*05/22/20 18:50*	*06/03/20 00:49*	*1*
2-Fluorophenol	*66*		*26 - 109*	*05/22/20 18:50*	*06/03/20 00:49*	*1*
Nitrobenzene-d5	*72*		*32 - 118*	*05/22/20 18:50*	*06/03/20 00:49*	*1*
Phenol-d5	*66*		*27 - 110*	*05/22/20 18:50*	*06/03/20 00:49*	*1*
Terphenyl-d14	*107*		*10 - 126*	*05/22/20 18:50*	*06/03/20 00:49*	*1*
2,4,6-Tribromophenol	*73*		*39 - 124*	*05/22/20 18:50*	*06/03/20 00:49*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		06/02/20 17:20	06/05/20 01:41	1
PCB-1221	<0.50		0.50	0.091	ug/L		06/02/20 17:20	06/05/20 01:41	1
PCB-1232	<0.50		0.50	0.12	ug/L		06/02/20 17:20	06/05/20 01:41	1
PCB-1242	<0.50		0.50	0.091	ug/L		06/02/20 17:20	06/05/20 01:41	1
PCB-1248	<0.50		0.50	0.10	ug/L		06/02/20 17:20	06/05/20 01:41	1
PCB-1254	<0.50		0.50	0.053	ug/L		06/02/20 17:20	06/05/20 01:41	1
PCB-1260	<0.50		0.50	0.057	ug/L		06/02/20 17:20	06/05/20 01:41	1
PCB-1268	<0.50		0.50	0.11	ug/L		06/02/20 17:20	06/05/20 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*43*		*14 - 130*	*06/02/20 17:20*	*06/05/20 01:41*	*1*
Tetrachloro-m-xylene	*79*		*40 - 130*	*06/02/20 17:20*	*06/05/20 01:41*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/21/20 16:31	05/29/20 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*100*		*60 - 154*	*05/21/20 16:31*	*05/29/20 21:57*	*1*
Chlormefos	*84*		*49 - 171*	*05/21/20 16:31*	*05/29/20 21:57*	*1*

Client Sample ID: OW-21A

Date Collected: 05/16/20 19:07
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**14**		13	13	ug/L			05/29/20 16:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*80 - 120*		*05/29/20 16:51*	*50*

Client Sample ID: OW-21A

Date Collected: 05/16/20 19:07
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*		*05/29/20 16:51*	*50*
Dibromofluoromethane (Surr)	*110*		*80 - 122*		*05/29/20 16:51*	*50*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/29/20 16:51*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	**13**		1.0	0.50	ug/L		05/22/20 18:50	06/03/20 01:11	1
1,4-Dichlorobenzene	**4.0**	**J**	1.0	0.51	ug/L		05/22/20 18:50	06/03/20 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*62*		*32 - 113*	*05/22/20 18:50*	*06/03/20 01:11*	*1*
2-Fluorophenol	*35*		*26 - 109*	*05/22/20 18:50*	*06/03/20 01:11*	*1*
Nitrobenzene-d5	*64*		*32 - 118*	*05/22/20 18:50*	*06/03/20 01:11*	*1*
Phenol-d5	*52*		*27 - 110*	*05/22/20 18:50*	*06/03/20 01:11*	*1*
Terphenyl-d14	*83*		*10 - 126*	*05/22/20 18:50*	*06/03/20 01:11*	*1*
2,4,6-Tribromophenol	*83*		*39 - 124*	*05/22/20 18:50*	*06/03/20 01:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o,o',o''-Triethylphosphorothioate	**310**		10	4.8	ug/L		05/22/20 18:50	06/03/20 16:26	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	**35000**		180	180	ug/L		05/22/20 18:50	06/03/20 16:48	100

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.87		0.87	0.87	ug/L		06/02/20 17:20	06/09/20 17:47	10
PCB-1221	<0.92		0.92	0.92	ug/L		06/02/20 17:20	06/09/20 17:47	10
PCB-1232	<1.2		1.2	1.2	ug/L		06/02/20 17:20	06/09/20 17:47	10
PCB-1242	<0.92		0.92	0.92	ug/L		06/02/20 17:20	06/09/20 17:47	10
PCB-1248	**35**		1.0	1.0	ug/L		06/02/20 17:20	06/09/20 17:47	10
PCB-1254	<0.53		0.53	0.53	ug/L		06/02/20 17:20	06/09/20 17:47	10
PCB-1260	<0.58		0.58	0.58	ug/L		06/02/20 17:20	06/09/20 17:47	10
PCB-1268	<1.2		1.2	1.2	ug/L		06/02/20 17:20	06/09/20 17:47	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*0*	*D*	*14 - 130*	*06/02/20 17:20*	*06/09/20 17:47*	*10*
Tetrachloro-m-xylene	*0*	*D*	*40 - 130*	*06/02/20 17:20*	*06/09/20 17:47*	*10*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	**4900**		140	140	ug/L		05/21/20 16:31	06/03/20 22:28	1000
Tetraethyldithiopyrophosphate	<160		160	160	ug/L		05/21/20 16:31	06/03/20 22:28	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*67*		*60 - 154*	*05/21/20 16:31*	*06/03/20 22:28*	*1000*
Chlormefos	*35*	*X*	*49 - 171*	*05/21/20 16:31*	*06/03/20 22:28*	*1000*

Client Sample ID: OW-21A

Lab Sample ID: 680-183984-8

Date Collected: 05/16/20 19:07

Matrix: Water

Date Received: 05/19/20 09:40

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	**0.028**		0.010	0.0010	mg/L		05/20/20 10:42	05/21/20 18:26	1
Manganese	**0.70**		0.010	0.0010	mg/L		05/20/20 10:42	05/21/20 18:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:30	05/26/20 19:07	1

Client Sample ID: OW-21A F

Lab Sample ID: 680-183984-9

Date Collected: 05/16/20 19:07

Matrix: Water

Date Received: 05/19/20 09:40

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.087	ug/L		05/29/20 16:59	06/08/20 23:20	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 23:20	1
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 23:20	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 23:20	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 23:20	1
PCB-1254, Dissolved	<0.50		0.50	0.053	ug/L		05/29/20 16:59	06/08/20 23:20	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		05/29/20 16:59	06/08/20 23:20	1
PCB-1268, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*20*		*14 - 130*	*05/29/20 16:59*	*06/08/20 23:20*	*1*
Tetrachloro-m-xylene	*916*	*p X*	*40 - 130*	*05/29/20 16:59*	*06/08/20 23:20*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	**0.030**		0.010	0.0010	mg/L		05/20/20 10:42	05/21/20 18:54	1
Manganese, Dissolved	**0.76**		0.010	0.0010	mg/L		05/20/20 10:42	05/21/20 18:54	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:30	05/26/20 19:24	1

Client Sample ID: OW-22

Lab Sample ID: 680-183984-10

Date Collected: 05/16/20 19:04

Matrix: Water

Date Received: 05/19/20 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/29/20 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*05/29/20 17:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*73 - 131*		*05/29/20 17:13*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 122*		*05/29/20 17:13*	*1*
4-Bromofluorobenzene (Surr)	*119*		*80 - 120*		*05/29/20 17:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.50	ug/L		05/22/20 18:50	06/03/20 17:09	1

Client Sample ID: OW-22

Date Collected: 05/16/20 19:04
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-10

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<1.0		1.0	0.51	ug/L		05/22/20 18:50	06/03/20 17:09	1
4-Nitrophenol	<25		25	1.8	ug/L		05/22/20 18:50	06/03/20 17:09	1
o,o',o''-Triethylphosphorothioate	<10		10	0.95	ug/L		05/22/20 18:50	06/03/20 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*32 - 113*	*05/22/20 18:50*	*06/03/20 17:09*	*1*
2-Fluorophenol	*63*		*26 - 109*	*05/22/20 18:50*	*06/03/20 17:09*	*1*
Nitrobenzene-d5	*90*		*32 - 118*	*05/22/20 18:50*	*06/03/20 17:09*	*1*
Phenol-d5	*69*		*27 - 110*	*05/22/20 18:50*	*06/03/20 17:09*	*1*
Terphenyl-d14	*89*		*10 - 126*	*05/22/20 18:50*	*06/03/20 17:09*	*1*
2,4,6-Tribromophenol	*86*		*39 - 124*	*05/22/20 18:50*	*06/03/20 17:09*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		06/02/20 17:20	06/05/20 02:10	1
PCB-1221	<0.50		0.50	0.091	ug/L		06/02/20 17:20	06/05/20 02:10	1
PCB-1232	<0.50		0.50	0.12	ug/L		06/02/20 17:20	06/05/20 02:10	1
PCB-1242	<0.50		0.50	0.091	ug/L		06/02/20 17:20	06/05/20 02:10	1
PCB-1248	**1.1**	**p**	0.50	0.10	ug/L		06/02/20 17:20	06/05/20 02:10	1
PCB-1254	<0.50		0.50	0.053	ug/L		06/02/20 17:20	06/05/20 02:10	1
PCB-1260	<0.50		0.50	0.058	ug/L		06/02/20 17:20	06/05/20 02:10	1
PCB-1268	<0.50		0.50	0.12	ug/L		06/02/20 17:20	06/05/20 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*88*		*14 - 130*	*06/02/20 17:20*	*06/05/20 02:10*	*1*
Tetrachloro-m-xylene	*87*		*40 - 130*	*06/02/20 17:20*	*06/05/20 02:10*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/21/20 16:31	05/29/20 23:16	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.16	ug/L		05/21/20 16:31	05/29/20 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*100*		*60 - 154*	*05/21/20 16:31*	*05/29/20 23:16*	*1*
Chlormefos	*81*		*49 - 171*	*05/21/20 16:31*	*05/29/20 23:16*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		05/20/20 10:42	05/21/20 18:49	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:30	05/26/20 19:02	1

Client Sample ID: OW-22 F

Date Collected: 05/16/20 19:04
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-11

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.087	ug/L		05/29/20 16:59	06/08/20 23:34	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 23:34	1

Client Sample ID: OW-22 F

Date Collected: 05/16/20 19:04
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-11
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 23:34	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/29/20 16:59	06/08/20 23:34	1
PCB-1248, Dissolved	<0.50		0.50	0.10	ug/L		05/29/20 16:59	06/08/20 23:34	1
PCB-1254, Dissolved	<0.50		0.50	0.053	ug/L		05/29/20 16:59	06/08/20 23:34	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		05/29/20 16:59	06/08/20 23:34	1
PCB-1268, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*22*		*14 - 130*	*05/29/20 16:59*	*06/08/20 23:34*	*1*
Tetrachloro-m-xylene	*106*		*40 - 130*	*05/29/20 16:59*	*06/08/20 23:34*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.010		0.010	0.0010	mg/L		06/01/20 10:31	06/02/20 00:29	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:31	05/27/20 00:07	1

Client Sample ID: MW-12A

Date Collected: 05/16/20 10:41
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-12
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		05/22/20 18:50	06/03/20 17:31	1
o,o',o"-Triethylphosphorothioate	**10**		10	0.95	ug/L		05/22/20 18:50	06/03/20 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*32 - 113*	*05/22/20 18:50*	*06/03/20 17:31*	*1*
2-Fluorophenol	*62*		*26 - 109*	*05/22/20 18:50*	*06/03/20 17:31*	*1*
Nitrobenzene-d5	*78*		*32 - 118*	*05/22/20 18:50*	*06/03/20 17:31*	*1*
Phenol-d5	*54*		*27 - 110*	*05/22/20 18:50*	*06/03/20 17:31*	*1*
Terphenyl-d14	*82*		*10 - 126*	*05/22/20 18:50*	*06/03/20 17:31*	*1*
2,4,6-Tribromophenol	*72*		*39 - 124*	*05/22/20 18:50*	*06/03/20 17:31*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		06/02/20 17:20	06/05/20 02:24	1
PCB-1221	<0.50		0.50	0.090	ug/L		06/02/20 17:20	06/05/20 02:24	1
PCB-1232	<0.50		0.50	0.12	ug/L		06/02/20 17:20	06/05/20 02:24	1
PCB-1242	<0.50		0.50	0.090	ug/L		06/02/20 17:20	06/05/20 02:24	1
PCB-1248	<0.50		0.50	0.10	ug/L		06/02/20 17:20	06/05/20 02:24	1
PCB-1254	<0.50		0.50	0.052	ug/L		06/02/20 17:20	06/05/20 02:24	1
PCB-1260	<0.50		0.50	0.057	ug/L		06/02/20 17:20	06/05/20 02:24	1
PCB-1268	<0.50		0.50	0.11	ug/L		06/02/20 17:20	06/05/20 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*14 - 130*	*06/02/20 17:20*	*06/05/20 02:24*	*1*
Tetrachloro-m-xylene	*92*		*40 - 130*	*06/02/20 17:20*	*06/05/20 02:24*	*1*

Client Sample ID: MW-12A

Lab Sample ID: 680-183984-12

Date Collected: 05/16/20 10:41

Matrix: Water

Date Received: 05/19/20 09:40

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/21/20 16:31	05/29/20 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*99*		*60 - 154*	*05/21/20 16:31*	*05/29/20 23:55*	*1*
Chlormefos	*77*		*49 - 171*	*05/21/20 16:31*	*05/29/20 23:55*	*1*

Client Sample ID: OW-06A

Lab Sample ID: 680-183984-13

Date Collected: 05/18/20 12:07

Matrix: Water

Date Received: 05/19/20 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/30/20 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*05/30/20 17:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*		*05/30/20 17:54*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 122*		*05/30/20 17:54*	*1*
4-Bromofluorobenzene (Surr)	*117*		*80 - 120*		*05/30/20 17:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.52	ug/L		05/22/20 18:50	06/03/20 17:53	1
1,4-Dichlorobenzene	<1.0		1.0	0.53	ug/L		05/22/20 18:50	06/03/20 17:53	1
4-Nitrophenol	<25		25	1.9	ug/L		05/22/20 18:50	06/03/20 17:53	1
o,o',o''-Triethylphosphorothioate	<10		10	0.98	ug/L		05/22/20 18:50	06/03/20 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*32 - 113*	*05/22/20 18:50*	*06/03/20 17:53*	*1*
2-Fluorophenol	*63*		*26 - 109*	*05/22/20 18:50*	*06/03/20 17:53*	*1*
Nitrobenzene-d5	*72*		*32 - 118*	*05/22/20 18:50*	*06/03/20 17:53*	*1*
Phenol-d5	*53*		*27 - 110*	*05/22/20 18:50*	*06/03/20 17:53*	*1*
Terphenyl-d14	*79*		*10 - 126*	*05/22/20 18:50*	*06/03/20 17:53*	*1*
2,4,6-Tribromophenol	*75*		*39 - 124*	*05/22/20 18:50*	*06/03/20 17:53*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		05/22/20 18:50	06/03/20 17:21	1
PCB-1221	<0.50		0.50	0.091	ug/L		05/22/20 18:50	06/03/20 17:21	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/22/20 18:50	06/03/20 17:21	1
PCB-1242	<0.50		0.50	0.091	ug/L		05/22/20 18:50	06/03/20 17:21	1
PCB-1248	<0.50		0.50	0.10	ug/L		05/22/20 18:50	06/03/20 17:21	1
PCB-1254	<0.50		0.50	0.052	ug/L		05/22/20 18:50	06/03/20 17:21	1
PCB-1260	<0.50		0.50	0.057	ug/L		05/22/20 18:50	06/03/20 17:21	1
PCB-1268	<0.50		0.50	0.11	ug/L		05/22/20 18:50	06/03/20 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*14 - 130*	*05/22/20 18:50*	*06/03/20 17:21*	*1*
Tetrachloro-m-xylene	*76*		*40 - 130*	*05/22/20 18:50*	*06/03/20 17:21*	*1*

Client Sample ID: OW-06A

Date Collected: 05/18/20 12:07
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-13

Matrix: Water

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/21/20 16:31	05/30/20 00:34	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.16	ug/L		05/21/20 16:31	05/30/20 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*97*		*60 - 154*	*05/21/20 16:31*	*05/30/20 00:34*	*1*
Chlormefos	*82*		*49 - 171*	*05/21/20 16:31*	*05/30/20 00:34*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		06/01/20 10:31	06/02/20 00:24	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:31	05/26/20 23:54	1

Client Sample ID: MW-09A

Date Collected: 05/18/20 09:52
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-14

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/30/20 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*05/30/20 18:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*		*05/30/20 18:18*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 122*		*05/30/20 18:18*	*1*
4-Bromofluorobenzene (Surr)	*120*		*80 - 120*		*05/30/20 18:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.51	ug/L		05/22/20 18:50	06/03/20 18:15	1
1,4-Dichlorobenzene	<1.0		1.0	0.52	ug/L		05/22/20 18:50	06/03/20 18:15	1
4-Nitrophenol	<25		25	1.8	ug/L		05/22/20 18:50	06/03/20 18:15	1
o,o',o''-Triethylphosphorothioate	<10		10	0.96	ug/L		05/22/20 18:50	06/03/20 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*32 - 113*	*05/22/20 18:50*	*06/03/20 18:15*	*1*
2-Fluorophenol	*80*		*26 - 109*	*05/22/20 18:50*	*06/03/20 18:15*	*1*
Nitrobenzene-d5	*84*		*32 - 118*	*05/22/20 18:50*	*06/03/20 18:15*	*1*
Phenol-d5	*80*		*27 - 110*	*05/22/20 18:50*	*06/03/20 18:15*	*1*
Terphenyl-d14	*104*		*10 - 126*	*05/22/20 18:50*	*06/03/20 18:15*	*1*
2,4,6-Tribromophenol	*80*		*39 - 124*	*05/22/20 18:50*	*06/03/20 18:15*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		05/23/20 15:48	05/28/20 01:41	1
PCB-1221	<0.50		0.50	0.091	ug/L		05/23/20 15:48	05/28/20 01:41	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/23/20 15:48	05/28/20 01:41	1
PCB-1242	<0.50		0.50	0.091	ug/L		05/23/20 15:48	05/28/20 01:41	1
PCB-1248	<0.50		0.50	0.10	ug/L		05/23/20 15:48	05/28/20 01:41	1
PCB-1254	<0.50		0.50	0.052	ug/L		05/23/20 15:48	05/28/20 01:41	1

Client Sample ID: MW-09A

Date Collected: 05/18/20 09:52
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-14

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continue

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<0.50		0.50	0.057	ug/L		05/23/20 15:48	05/28/20 01:41	1
PCB-1268	<0.50		0.50	0.11	ug/L		05/23/20 15:48	05/28/20 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*14 - 130*	*05/23/20 15:48*	*05/28/20 01:41*	*1*
Tetrachloro-m-xylene	*82*		*40 - 130*	*05/23/20 15:48*	*05/28/20 01:41*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/25/20 10:25	05/28/20 11:32	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.16	ug/L		05/25/20 10:25	05/28/20 11:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*101*		*60 - 154*	*05/25/20 10:25*	*05/28/20 11:32*	*1*
Chlormefos	*77*		*49 - 171*	*05/25/20 10:25*	*05/28/20 11:32*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		06/01/20 10:31	06/02/20 00:10	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:31	05/27/20 00:11	1

Client Sample ID: MW-01B

Date Collected: 05/16/20 09:47
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-15

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/29/20 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/29/20 17:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*		*05/29/20 17:36*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 122*		*05/29/20 17:36*	*1*
4-Bromofluorobenzene (Surr)	*122*	*X*	*80 - 120*		*05/29/20 17:36*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.51	ug/L		05/22/20 18:50	06/03/20 18:37	1
1,4-Dichlorobenzene	<1.0		1.0	0.52	ug/L		05/22/20 18:50	06/03/20 18:37	1
4-Nitrophenol	<25		25	1.8	ug/L		05/22/20 18:50	06/03/20 18:37	1
o,o',o''-Triethylphosphorothioate	<10		10	0.96	ug/L		05/22/20 18:50	06/03/20 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*52*		*32 - 113*	*05/22/20 18:50*	*06/03/20 18:37*	*1*
2-Fluorophenol	*45*		*26 - 109*	*05/22/20 18:50*	*06/03/20 18:37*	*1*
Nitrobenzene-d5	*61*		*32 - 118*	*05/22/20 18:50*	*06/03/20 18:37*	*1*
Phenol-d5	*54*		*27 - 110*	*05/22/20 18:50*	*06/03/20 18:37*	*1*
Terphenyl-d14	*69*		*10 - 126*	*05/22/20 18:50*	*06/03/20 18:37*	*1*
2,4,6-Tribromophenol	*58*		*39 - 124*	*05/22/20 18:50*	*06/03/20 18:37*	*1*

Client Sample ID: MW-01B

Lab Sample ID: 680-183984-15

Date Collected: 05/16/20 09:47

Matrix: Water

Date Received: 05/19/20 09:40

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		05/22/20 18:50	06/03/20 17:35	1
PCB-1221	<0.50		0.50	0.092	ug/L		05/22/20 18:50	06/03/20 17:35	1
PCB-1232	<0.50		0.50	0.12	ug/L		05/22/20 18:50	06/03/20 17:35	1
PCB-1242	<0.50		0.50	0.092	ug/L		05/22/20 18:50	06/03/20 17:35	1
PCB-1248	<0.50		0.50	0.10	ug/L		05/22/20 18:50	06/03/20 17:35	1
PCB-1254	<0.50		0.50	0.053	ug/L		05/22/20 18:50	06/03/20 17:35	1
PCB-1260	<0.50		0.50	0.058	ug/L		05/22/20 18:50	06/03/20 17:35	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/22/20 18:50	06/03/20 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*48*		*14 - 130*	*05/22/20 18:50*	*06/03/20 17:35*	*1*
Tetrachloro-m-xylene	*79*		*40 - 130*	*05/22/20 18:50*	*06/03/20 17:35*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0	H	1.0	0.14	ug/L		05/26/20 13:10	05/29/20 15:26	1
Tetraethyldithiopyrophosphate	<0.50	H	0.50	0.16	ug/L		05/26/20 13:10	05/29/20 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*103*		*60 - 154*	*05/26/20 13:10*	*05/29/20 15:26*	*1*
Chlormefos	*81*		*49 - 171*	*05/26/20 13:10*	*05/29/20 15:26*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		06/01/20 10:31	06/02/20 00:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:31	05/27/20 00:16	1

Client Sample ID: Trip Blank 20200518R

Lab Sample ID: 680-183984-16

Date Collected: 05/18/20 00:00

Matrix: Water

Date Received: 05/19/20 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/30/20 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/30/20 18:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*73 - 131*		*05/30/20 18:58*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 122*		*05/30/20 18:58*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*05/30/20 18:58*	*1*

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183984-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	DBFM	BFB
Lab Sample ID	Client Sample ID	(80-120)	(73-131)	(80-122)	(80-120)
680-183984-2	OW-08A	107	103	107	118
680-183984-4	MW-08	110	92	111	121 X
680-183984-6	MW-14	110	104	114	120
680-183984-8	OW-21A	112	100	110	101
680-183984-10	OW-22	104	105	107	119
680-183984-13	OW-06A	106	93	110	117
680-183984-14	MW-09A	108	100	110	120
680-183984-15	MW-01B	102	101	103	122 X
680-183984-16	Trip Blank 20200518R	103	113	112	92
LCS 680-620364/5	Lab Control Sample	99	94	90	120
LCS 680-620367/3	Lab Control Sample	106	105	106	93
LCS 680-620523/5	Lab Control Sample	103	109	108	99
LCS 680-620539/5	Lab Control Sample	116	104	107	129 X
LCSD 680-620364/6	Lab Control Sample Dup	98	86	89	113
LCSD 680-620367/4	Lab Control Sample Dup	109	108	108	96
LCSD 680-620523/6	Lab Control Sample Dup	106	115	114	102
LCSD 680-620539/6	Lab Control Sample Dup	110	104	101	129 X
MB 680-620364/10	Method Blank	105	104	107	121 X
MB 680-620367/9	Method Blank	111	102	112	101
MB 680-620523/9	Method Blank	103	111	110	92
MB 680-620539/10	Method Blank	109	102	101	119

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(32-113)	(26-109)	(32-118)	(27-110)	(10-126)	(39-124)
680-183984-1	MW-13A	43	45	50	47	50	45
680-183984-2	OW-08A	70	68	78	70	78	82
680-183984-4	MW-08	64	63	68	65	80	80
680-183984-6	MW-14	48	49	57	50	68	55
680-183984-7	MW-11A	59	66	72	66	107	73
680-183984-8	OW-21A	62	35	64	52	83	83
680-183984-10	OW-22	69	63	90	69	89	86
680-183984-12	MW-12A	72	62	78	54	82	72
680-183984-13	OW-06A	79	63	72	53	79	75
680-183984-14	MW-09A	66	80	84	80	104	80
680-183984-15	MW-01B	52	45	61	54	69	58
LCS 680-619700/18-A	Lab Control Sample	72	69	81	66	66	76
LCS 680-619700/20-A	Lab Control Sample	78	79	84	77	88	87
LCSD 680-619700/19-A	Lab Control Sample Dup	74	78	86	79	83	79
LCSD 680-619700/21-A	Lab Control Sample Dup	77	77	85	81	97	86
MB 680-619700/17-A	Method Blank	77	71	78	68	85	88

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183984-1

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (14-130)	TCX1 (40-130)
680-183984-1	MW-13A	81	61
680-183984-8	OW-21A	0 D	0 D
680-183984-12	MW-12A	90	92
680-183984-13	OW-06A	69	76
680-183984-14	MW-09A	99	82
LCS 680-619804/3-A	Lab Control Sample	101	72
LCS 680-620882/20-A	Lab Control Sample	77	83
LCSD 680-619804/4-A	Lab Control Sample Dup	100	99
MB 680-619717/21-A	Method Blank	58	68
MB 680-619804/2-A	Method Blank	101	85
MB 680-620452/17-A	Method Blank	84	88
MB 680-620882/17-A	Method Blank	61	88

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (14-130)	TCX1 (40-130)
680-183984-2	OW-08A	78	81
680-183984-4	MW-08	62	68
680-183984-6	MW-14	64	91
680-183984-7	MW-11A	43	79
680-183984-10	OW-22	88	87
680-183984-15	MW-01B	48	79
LCS 680-620452/18-A	Lab Control Sample	49	92
LCSD 680-620452/19-A	Lab Control Sample Dup	56	86
LCSD 680-620882/21-A	Lab Control Sample Dup	65	64

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: GSI Environmental, Inc
Job ID: 680-183984-1
Project/Site: Anniston RCRA April 2020

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-183984-5	Purge Water	41	40
LCS 680-619717/24-A	Lab Control Sample	82	49

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
LCSD 680-619717/25-A	Lab Control Sample Dup	84	49

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water — **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-183984-9	OW-21A F	20	916 p X
680-183984-11	OW-22 F	22	106

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water — **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-183984-3	OW-08A F	32	116

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: GSI Environmental, Inc
Job ID: 680-183984-1
Project/Site: Anniston RCRA April 2020

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TPP1 (60-154)	CMF1 (49-171)
680-183984-1	MW-13A	101	91
680-183984-2	OW-08A	107	83
680-183984-4	MW-08	96	81
680-183984-6	MW-14	92	77
680-183984-7	MW-11A	100	84
680-183984-8	OW-21A	67	35 X
680-183984-10	OW-22	100	81
680-183984-12	MW-12A	99	77
680-183984-13	OW-06A	97	82
680-183984-14	MW-09A	101	77
680-183984-15	MW-01B	103	81
LCS 280-495784/2-A	Lab Control Sample	102	75
LCS 280-495784/2-A	Lab Control Sample	92	75
LCS 280-496070/2-A	Lab Control Sample	97	83
LCS 280-496195/2-A	Lab Control Sample	66	55
LCSD 280-495784/3-A	Lab Control Sample Dup	99	82
LCSD 280-495784/3-A	Lab Control Sample Dup	103	87
LCSD 280-496070/3-A	Lab Control Sample Dup	94	80
LCSD 280-496195/3-A	Lab Control Sample Dup	82	66
MB 280-495784/1-A	Method Blank	105	90
MB 280-495784/1-A	Method Blank	101	86
MB 280-496070/1-A	Method Blank	87	67
MB 280-496195/1-A	Method Blank	102	73

Surrogate Legend

TPP = Triphenylphosphate

CMF = Chlormefos

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-620364/10
Matrix: Water
Analysis Batch: 620364

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/29/20 13:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*05/29/20 13:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*05/29/20 13:17*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 122*		*05/29/20 13:17*	*1*
4-Bromofluorobenzene (Surr)	*121*	*X*	*80 - 120*		*05/29/20 13:17*	*1*

Lab Sample ID: LCS 680-620364/5
Matrix: Water
Analysis Batch: 620364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorobenzene			50.0	45.4		ug/L		91	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*
Dibromofluoromethane (Surr)	*90*		*80 - 122*
4-Bromofluorobenzene (Surr)	*120*		*80 - 120*

Lab Sample ID: LCSD 680-620364/6
Matrix: Water
Analysis Batch: 620364

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	45.6		ug/L		91	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*86*		*73 - 131*
Dibromofluoromethane (Surr)	*89*		*80 - 122*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*

Lab Sample ID: MB 680-620367/9
Matrix: Water
Analysis Batch: 620367

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/29/20 12:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*80 - 120*		*05/29/20 12:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*		*05/29/20 12:58*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 122*		*05/29/20 12:58*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/29/20 12:58*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-620367/3
Matrix: Water
Analysis Batch: 620367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorobenzene			50.0	54.4		ug/L		109	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*73 - 131*
Dibromofluoromethane (Surr)	*106*		*80 - 122*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*

Lab Sample ID: LCSD 680-620367/4
Matrix: Water
Analysis Batch: 620367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	56.0		ug/L		112	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*109*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*
Dibromofluoromethane (Surr)	*108*		*80 - 122*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*

Lab Sample ID: MB 680-620523/9
Matrix: Water
Analysis Batch: 620523

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/30/20 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/30/20 14:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*73 - 131*		*05/30/20 14:18*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 122*		*05/30/20 14:18*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*05/30/20 14:18*	*1*

Lab Sample ID: LCS 680-620523/5
Matrix: Water
Analysis Batch: 620523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorobenzene			50.0	51.2		ug/L		102	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*109*		*73 - 131*
Dibromofluoromethane (Surr)	*108*		*80 - 122*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-620523/6
Matrix: Water
Analysis Batch: 620523

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	52.5		ug/L		105	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*115*		*73 - 131*
Dibromofluoromethane (Surr)	*114*		*80 - 122*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 680-620539/10
Matrix: Water
Analysis Batch: 620539

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			05/30/20 14:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*05/30/20 14:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*		*05/30/20 14:46*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 122*		*05/30/20 14:46*	*1*
4-Bromofluorobenzene (Surr)	*119*		*80 - 120*		*05/30/20 14:46*	*1*

Lab Sample ID: LCS 680-620539/5
Matrix: Water
Analysis Batch: 620539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorobenzene			50.0	48.2		ug/L		96	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*116*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*
Dibromofluoromethane (Surr)	*107*		*80 - 122*
4-Bromofluorobenzene (Surr)	*129*	*X*	*80 - 120*

Lab Sample ID: LCSD 680-620539/6
Matrix: Water
Analysis Batch: 620539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	47.8		ug/L		96	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*110*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
4-Bromofluorobenzene (Surr)	*129*	*X*	*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-619700/17-A
Matrix: Water
Analysis Batch: 620854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.53	ug/L		05/22/20 18:50	06/02/20 15:32	1
1,4-Dichlorobenzene	<10		10	0.54	ug/L		05/22/20 18:50	06/02/20 15:32	1
4-Nitrophenol	<25		25	1.9	ug/L		05/22/20 18:50	06/02/20 15:32	1
Indeno[1,2,3-cd]pyrene	<10		10	1.0	ug/L		05/22/20 18:50	06/02/20 15:32	1
o,o',o''-Triethylphosphorothioate	<10		10	1.0	ug/L		05/22/20 18:50	06/02/20 15:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*32 - 113*	*05/22/20 18:50*	*06/02/20 15:32*	*1*
2-Fluorophenol	*71*		*26 - 109*	*05/22/20 18:50*	*06/02/20 15:32*	*1*
Nitrobenzene-d5	*78*		*32 - 118*	*05/22/20 18:50*	*06/02/20 15:32*	*1*
Phenol-d5	*68*		*27 - 110*	*05/22/20 18:50*	*06/02/20 15:32*	*1*
Terphenyl-d14	*85*		*10 - 126*	*05/22/20 18:50*	*06/02/20 15:32*	*1*
2,4,6-Tribromophenol	*88*		*39 - 124*	*05/22/20 18:50*	*06/02/20 15:32*	*1*

Lab Sample ID: LCS 680-619700/18-A
Matrix: Water
Analysis Batch: 620854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	100	58.5		ug/L		59	31 - 130
1,4-Dichlorobenzene	100	54.9		ug/L		55	31 - 130
4-Nitrophenol	200	161		ug/L		81	44 - 130
Indeno[1,2,3-cd]pyrene	100	70.1		ug/L		70	31 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*72*		*32 - 113*
2-Fluorophenol	*69*		*26 - 109*
Nitrobenzene-d5	*81*		*32 - 118*
Phenol-d5	*66*		*27 - 110*
Terphenyl-d14	*66*		*10 - 126*
2,4,6-Tribromophenol	*76*		*39 - 124*

Lab Sample ID: LCS 680-619700/20-A
Matrix: Water
Analysis Batch: 620854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o,o',o''-Triethylphosphorothioate	100	93.1		ug/L		93	23 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*78*		*32 - 113*
2-Fluorophenol	*79*		*26 - 109*
Nitrobenzene-d5	*84*		*32 - 118*
Phenol-d5	*77*		*27 - 110*
Terphenyl-d14	*88*		*10 - 126*
2,4,6-Tribromophenol	*87*		*39 - 124*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-619700/19-A
Matrix: Water
Analysis Batch: 620854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 619700

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene			100	63.0		ug/L		63	31 - 130	7	50
1,4-Dichlorobenzene			100	58.8		ug/L		59	31 - 130	7	50
4-Nitrophenol			200	203		ug/L		102	44 - 130	23	50
Indeno[1,2,3-cd]pyrene			100	88.1		ug/L		88	31 - 130	23	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*32 - 113*
2-Fluorophenol	*78*		*26 - 109*
Nitrobenzene-d5	*86*		*32 - 118*
Phenol-d5	*79*		*27 - 110*
Terphenyl-d14	*83*		*10 - 126*
2,4,6-Tribromophenol	*79*		*39 - 124*

Lab Sample ID: LCSD 680-619700/21-A
Matrix: Water
Analysis Batch: 620854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 619700

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o,o',o''-Triethylphosphorothioate			100	90.9		ug/L		91	23 - 130	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*77*		*32 - 113*
2-Fluorophenol	*77*		*26 - 109*
Nitrobenzene-d5	*85*		*32 - 118*
Phenol-d5	*81*		*27 - 110*
Terphenyl-d14	*97*		*10 - 126*
2,4,6-Tribromophenol	*86*		*39 - 124*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-619717/21-A
Matrix: Water
Analysis Batch: 620934

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619717

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/22/20 18:50	06/02/20 19:04	1
PCB-1221	<0.50		0.50	0.095	ug/L		05/22/20 18:50	06/02/20 19:04	1
PCB-1232	<0.50		0.50	0.13	ug/L		05/22/20 18:50	06/02/20 19:04	1
PCB-1242	<0.50		0.50	0.095	ug/L		05/22/20 18:50	06/02/20 19:04	1
PCB-1248	<0.50		0.50	0.11	ug/L		05/22/20 18:50	06/02/20 19:04	1
PCB-1254	<0.50		0.50	0.055	ug/L		05/22/20 18:50	06/02/20 19:04	1
PCB-1260	<0.50		0.50	0.060	ug/L		05/22/20 18:50	06/02/20 19:04	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/22/20 18:50	06/02/20 19:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*14 - 130*	*05/22/20 18:50*	*06/02/20 19:04*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 680-619717/21-A
Matrix: Water
Analysis Batch: 620934

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619717

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*68*		*40 - 130*	*05/22/20 18:50*	*06/02/20 19:04*	*1*

Lab Sample ID: LCS 680-619717/24-A
Matrix: Water
Analysis Batch: 620934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619717

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			3.00	1.93		ug/L		64	44 - 130		
PCB-1260			3.00	3.29		ug/L		110	35 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	*82*		*14 - 130*
Tetrachloro-m-xylene	*49*		*40 - 130*

Lab Sample ID: LCSD 680-619717/25-A
Matrix: Water
Analysis Batch: 620934

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 619717

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			3.00	2.10		ug/L		70	44 - 130	9	30
PCB-1260			3.00	3.64		ug/L		121	35 - 130	10	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	*84*		*14 - 130*
Tetrachloro-m-xylene	*49*		*40 - 130*

Lab Sample ID: MB 680-619804/2-A
Matrix: Water
Analysis Batch: 620197

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/23/20 15:48	05/28/20 00:58	1
PCB-1221	<0.50		0.50	0.095	ug/L		05/23/20 15:48	05/28/20 00:58	1
PCB-1232	<0.50		0.50	0.13	ug/L		05/23/20 15:48	05/28/20 00:58	1
PCB-1242	<0.50		0.50	0.095	ug/L		05/23/20 15:48	05/28/20 00:58	1
PCB-1248	<0.50		0.50	0.11	ug/L		05/23/20 15:48	05/28/20 00:58	1
PCB-1254	<0.50		0.50	0.055	ug/L		05/23/20 15:48	05/28/20 00:58	1
PCB-1260	<0.50		0.50	0.060	ug/L		05/23/20 15:48	05/28/20 00:58	1
PCB-1268	<0.50		0.50	0.12	ug/L		05/23/20 15:48	05/28/20 00:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*101*		*14 - 130*	*05/23/20 15:48*	*05/28/20 00:58*	*1*
Tetrachloro-m-xylene	*85*		*40 - 130*	*05/23/20 15:48*	*05/28/20 00:58*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-619804/3-A
Matrix: Water
Analysis Batch: 620197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619804

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			3.00	2.40		ug/L		80	44 - 130		
PCB-1260			3.00	3.30		ug/L		110	35 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*101*		*14 - 130*
Tetrachloro-m-xylene	*72*		*40 - 130*

Lab Sample ID: LCSD 680-619804/4-A
Matrix: Water
Analysis Batch: 620197

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 619804

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			3.00	3.20		ug/L		107	44 - 130	28	30
PCB-1260			3.00	3.84		ug/L		128	35 - 130	15	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*100*		*14 - 130*
Tetrachloro-m-xylene	*99*		*40 - 130*

Lab Sample ID: MB 680-620452/17-A
Matrix: Water
Analysis Batch: 621712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1221, Dissolved	<0.50		0.50	0.095	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1232, Dissolved	<0.50		0.50	0.13	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1242, Dissolved	<0.50		0.50	0.095	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1248, Dissolved	<0.50		0.50	0.11	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1254, Dissolved	<0.50		0.50	0.055	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		05/29/20 16:59	06/08/20 19:16	1
PCB-1268, Dissolved	<0.50		0.50	0.12	ug/L		05/29/20 16:59	06/08/20 19:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*14 - 130*	*05/29/20 16:59*	*06/08/20 19:16*	*1*
Tetrachloro-m-xylene	*88*		*40 - 130*	*05/29/20 16:59*	*06/08/20 19:16*	*1*

Lab Sample ID: LCS 680-620452/18-A
Matrix: Water
Analysis Batch: 621712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620452

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016, Dissolved			3.00	3.06		ug/L		102	44 - 130		
PCB-1260, Dissolved			3.00	3.56		ug/L		119	35 - 130		

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-620452/18-A
Matrix: Water
Analysis Batch: 621712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620452

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*49*		*14 - 130*
Tetrachloro-m-xylene	*92*		*40 - 130*

Lab Sample ID: LCSD 680-620452/19-A
Matrix: Water
Analysis Batch: 621712

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 620452

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016, Dissolved			3.00	3.19		ug/L		106	44 - 130	4	30
PCB-1260, Dissolved			3.00	3.68		ug/L		123	35 - 130	3	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*56*		*14 - 130*
Tetrachloro-m-xylene	*86*		*40 - 130*

Lab Sample ID: MB 680-620882/17-A
Matrix: Water
Analysis Batch: 621268

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		06/02/20 17:20	06/04/20 19:28	1
PCB-1221	<0.50		0.50	0.095	ug/L		06/02/20 17:20	06/04/20 19:28	1
PCB-1232	<0.50		0.50	0.13	ug/L		06/02/20 17:20	06/04/20 19:28	1
PCB-1242	<0.50		0.50	0.095	ug/L		06/02/20 17:20	06/04/20 19:28	1
PCB-1248	<0.50		0.50	0.11	ug/L		06/02/20 17:20	06/04/20 19:28	1
PCB-1254	<0.50		0.50	0.055	ug/L		06/02/20 17:20	06/04/20 19:28	1
PCB-1260	<0.50		0.50	0.060	ug/L		06/02/20 17:20	06/04/20 19:28	1
PCB-1268	<0.50		0.50	0.12	ug/L		06/02/20 17:20	06/04/20 19:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*14 - 130*	*06/02/20 17:20*	*06/04/20 19:28*	*1*
Tetrachloro-m-xylene	*88*		*40 - 130*	*06/02/20 17:20*	*06/04/20 19:28*	*1*

Lab Sample ID: LCS 680-620882/20-A
Matrix: Water
Analysis Batch: 621268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620882

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016			3.00	2.93		ug/L		98	44 - 130
PCB-1260			3.00	3.42		ug/L		114	35 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*77*		*14 - 130*
Tetrachloro-m-xylene	*83*		*40 - 130*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 680-620882/21-A
Matrix: Water
Analysis Batch: 621268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 620882

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			3.00	2.50		ug/L		83	44 - 130	16	30
PCB-1260			3.00	3.42		ug/L		114	35 - 130	0	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*65*		*14 - 130*
Tetrachloro-m-xylene	*64*		*40 - 130*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-495784/1-A
Matrix: Water
Analysis Batch: 496581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495784

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/21/20 16:31	05/29/20 16:05	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.17	ug/L		05/21/20 16:31	05/29/20 16:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*105*		*60 - 154*	*05/21/20 16:31*	*05/29/20 16:05*	*1*
Chlormefos	*90*		*49 - 171*	*05/21/20 16:31*	*05/29/20 16:05*	*1*

Lab Sample ID: MB 280-495784/1-A
Matrix: Water
Analysis Batch: 497269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495784

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/21/20 16:31	06/03/20 20:30	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.17	ug/L		05/21/20 16:31	06/03/20 20:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*101*		*60 - 154*	*05/21/20 16:31*	*06/03/20 20:30*	*1*
Chlormefos	*86*		*49 - 171*	*05/21/20 16:31*	*06/03/20 20:30*	*1*

Lab Sample ID: LCS 280-495784/2-A
Matrix: Water
Analysis Batch: 496581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495784

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Parathion			4.00	4.12		ug/L		103	55 - 107
Tetraethyldithiopyrophosphate			4.00	3.93		ug/L		98	53 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*102*		*60 - 154*
Chlormefos	*75*		*49 - 171*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: LCS 280-495784/2-A
Matrix: Water
Analysis Batch: 497269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495784

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Parathion			4.00	4.13		ug/L		103	55 - 107		
Tetraethyldithiopyrophosphate			4.00	3.87		ug/L		97	53 - 110		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*92*		*60 - 154*
Chlormefos	*75*		*49 - 171*

Lab Sample ID: LCSD 280-495784/3-A
Matrix: Water
Analysis Batch: 496581

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 495784

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Parathion			4.00	4.22		ug/L		105	55 - 107	2	20
Tetraethyldithiopyrophosphate			4.00	4.36		ug/L		109	53 - 110	10	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate	*99*		*60 - 154*
Chlormefos	*82*		*49 - 171*

Lab Sample ID: LCSD 280-495784/3-A
Matrix: Water
Analysis Batch: 497269

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 495784

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Parathion			4.00	4.27		ug/L		107	55 - 107	3	20
Tetraethyldithiopyrophosphate			4.00	4.17		ug/L		104	53 - 110	7	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate	*103*		*60 - 154*
Chlormefos	*87*		*49 - 171*

Lab Sample ID: MB 280-496070/1-A
Matrix: Water
Analysis Batch: 496369

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 496070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/25/20 10:25	05/28/20 09:35	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.17	ug/L		05/25/20 10:25	05/28/20 09:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*87*		*60 - 154*	*05/25/20 10:25*	*05/28/20 09:35*	*1*
Chlormefos	*67*		*49 - 171*	*05/25/20 10:25*	*05/28/20 09:35*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: LCS 280-496070/2-A
Matrix: Water
Analysis Batch: 496369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 496070

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Parathion			4.00	4.27		ug/L		107	55 - 107		
Tetraethyldithiopyrophosphate			4.00	4.35		ug/L		109	53 - 110		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*97*		*60 - 154*
Chlormefos	*83*		*49 - 171*

Lab Sample ID: LCSD 280-496070/3-A
Matrix: Water
Analysis Batch: 496369

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 496070

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Parathion			4.00	4.08		ug/L		102	55 - 107	4	20
Tetraethyldithiopyrophosphate			4.00	4.07		ug/L		102	53 - 110	7	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate	*94*		*60 - 154*
Chlormefos	*80*		*49 - 171*

Lab Sample ID: MB 280-496195/1-A
Matrix: Water
Analysis Batch: 496581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 496195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		05/26/20 13:10	05/29/20 13:29	1
Tetraethyldithiopyrophosphate	<0.50		0.50	0.17	ug/L		05/26/20 13:10	05/29/20 13:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*102*		*60 - 154*	*05/26/20 13:10*	*05/29/20 13:29*	*1*
Chlormefos	*73*		*49 - 171*	*05/26/20 13:10*	*05/29/20 13:29*	*1*

Lab Sample ID: LCS 280-496195/2-A
Matrix: Water
Analysis Batch: 496581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 496195

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Parathion			4.00	2.91		ug/L		73	55 - 107		
Tetraethyldithiopyrophosphate			4.00	2.77		ug/L		69	53 - 110		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*66*		*60 - 154*
Chlormefos	*55*		*49 - 171*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: LCSD 280-496195/3-A
Matrix: Water
Analysis Batch: 496581

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 496195

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Parathion			4.00	3.46		ug/L		87	55 - 107	17	20
Tetraethyldithiopyrophosphate			4.00	3.50		ug/L		87	53 - 110	23	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate	*82*		*60 - 154*
Chlormefos	*66*		*49 - 171*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-619346/1-A
Matrix: Water
Analysis Batch: 619647

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 619346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		05/20/20 10:42	05/21/20 17:49	1
Cobalt, Dissolved	<0.010		0.010	0.0010	mg/L		05/20/20 10:42	05/21/20 17:49	1
Manganese	<0.010		0.010	0.0010	mg/L		05/20/20 10:42	05/21/20 17:49	1
Manganese, Dissolved	<0.010		0.010	0.0010	mg/L		05/20/20 10:42	05/21/20 17:49	1

Lab Sample ID: LCS 680-619346/2-A
Matrix: Water
Analysis Batch: 619647

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 619346

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt			0.0501	0.0539		mg/L		108	80 - 120
Cobalt, Dissolved			0.0501	0.0539		mg/L		108	80 - 120
Manganese			0.400	0.404		mg/L		101	80 - 120
Manganese, Dissolved			0.400	0.404		mg/L		101	80 - 120

Lab Sample ID: MB 680-620661/1-A
Matrix: Water
Analysis Batch: 620833

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 620661

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		06/01/20 10:31	06/01/20 23:33	1
Cobalt, Dissolved	<0.010		0.010	0.0010	mg/L		06/01/20 10:31	06/01/20 23:33	1

Lab Sample ID: LCS 680-620661/2-A
Matrix: Water
Analysis Batch: 620833

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 620661

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt			0.0501	0.0520		mg/L		104	80 - 120
Cobalt, Dissolved			0.0501	0.0520		mg/L		104	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-619854/1-A
Matrix: Water
Analysis Batch: 620002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619854

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:30	05/26/20 18:01	1
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:30	05/26/20 18:01	1

Lab Sample ID: LCS 680-619854/2-A
Matrix: Water
Analysis Batch: 620002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619854

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00238		mg/L		95	80 - 120
Mercury, Dissolved	0.00250	0.00238		mg/L		95	80 - 120

Lab Sample ID: MB 680-619855/1-A
Matrix: Water
Analysis Batch: 620002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 619855

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:31	05/26/20 22:57	1
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		05/26/20 09:31	05/26/20 22:57	1

Lab Sample ID: LCS 680-619855/2-A
Matrix: Water
Analysis Batch: 620002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 619855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00244		mg/L		97	80 - 120
Mercury, Dissolved	0.00250	0.00244		mg/L		97	80 - 120

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Analysis Batch: 620364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-2	OW-08A	Total/NA	Water	8260B	
680-183984-10	OW-22	Total/NA	Water	8260B	
680-183984-15	MW-01B	Total/NA	Water	8260B	
MB 680-620364/10	Method Blank	Total/NA	Water	8260B	
LCS 680-620364/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-620364/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 620367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-8	OW-21A	Total/NA	Water	8260B	
MB 680-620367/9	Method Blank	Total/NA	Water	8260B	
LCS 680-620367/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-620367/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 620523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-16	Trip Blank 20200518R	Total/NA	Water	8260B	
MB 680-620523/9	Method Blank	Total/NA	Water	8260B	
LCS 680-620523/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-620523/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 620539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-4	MW-08	Total/NA	Water	8260B	
680-183984-6	MW-14	Total/NA	Water	8260B	
680-183984-13	OW-06A	Total/NA	Water	8260B	
680-183984-14	MW-09A	Total/NA	Water	8260B	
MB 680-620539/10	Method Blank	Total/NA	Water	8260B	
LCS 680-620539/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-620539/6	Lab Control Sample Dup	Total/NA	Water	8260B	

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Prep Batch: 619700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-1	MW-13A	Total/NA	Water	3520C	
680-183984-2	OW-08A	Total/NA	Water	3520C	
680-183984-4	MW-08	Total/NA	Water	3520C	
680-183984-6	MW-14	Total/NA	Water	3520C	
680-183984-7	MW-11A	Total/NA	Water	3520C	
680-183984-8 - DL	OW-21A	Total/NA	Water	3520C	
680-183984-8 - DL2	OW-21A	Total/NA	Water	3520C	
680-183984-8	OW-21A	Total/NA	Water	3520C	
680-183984-10	OW-22	Total/NA	Water	3520C	
680-183984-12	MW-12A	Total/NA	Water	3520C	
680-183984-13	OW-06A	Total/NA	Water	3520C	
680-183984-14	MW-09A	Total/NA	Water	3520C	
680-183984-15	MW-01B	Total/NA	Water	3520C	
MB 680-619700/17-A	Method Blank	Total/NA	Water	3520C	
LCS 680-619700/18-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-619700/20-A	Lab Control Sample	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 619700 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-619700/19-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 680-619700/21-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 620854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-1	MW-13A	Total/NA	Water	8270D	619700
680-183984-2	OW-08A	Total/NA	Water	8270D	619700
680-183984-4	MW-08	Total/NA	Water	8270D	619700
680-183984-6	MW-14	Total/NA	Water	8270D	619700
680-183984-7	MW-11A	Total/NA	Water	8270D	619700
680-183984-8	OW-21A	Total/NA	Water	8270D	619700
MB 680-619700/17-A	Method Blank	Total/NA	Water	8270D	619700
LCS 680-619700/18-A	Lab Control Sample	Total/NA	Water	8270D	619700
LCS 680-619700/20-A	Lab Control Sample	Total/NA	Water	8270D	619700
LCSD 680-619700/19-A	Lab Control Sample Dup	Total/NA	Water	8270D	619700
LCSD 680-619700/21-A	Lab Control Sample Dup	Total/NA	Water	8270D	619700

Analysis Batch: 620999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-8 - DL	OW-21A	Total/NA	Water	8270D	619700
680-183984-8 - DL2	OW-21A	Total/NA	Water	8270D	619700
680-183984-10	OW-22	Total/NA	Water	8270D	619700
680-183984-12	MW-12A	Total/NA	Water	8270D	619700
680-183984-13	OW-06A	Total/NA	Water	8270D	619700
680-183984-14	MW-09A	Total/NA	Water	8270D	619700
680-183984-15	MW-01B	Total/NA	Water	8270D	619700

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Prep Batch: 495784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-1	MW-13A	Total/NA	Water	3510C	
680-183984-2	OW-08A	Total/NA	Water	3510C	
680-183984-4	MW-08	Total/NA	Water	3510C	
680-183984-6	MW-14	Total/NA	Water	3510C	
680-183984-7	MW-11A	Total/NA	Water	3510C	
680-183984-8	OW-21A	Total/NA	Water	3510C	
680-183984-10	OW-22	Total/NA	Water	3510C	
680-183984-12	MW-12A	Total/NA	Water	3510C	
680-183984-13	OW-06A	Total/NA	Water	3510C	
MB 280-495784/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-495784/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-495784/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 496070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-14	MW-09A	Total/NA	Water	3510C	
MB 280-496070/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-496070/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-496070/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA

Prep Batch: 496195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-15	MW-01B	Total/NA	Water	3510C	
MB 280-496195/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-496195/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-496195/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 496369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-14	MW-09A	Total/NA	Water	8141B	496070
MB 280-496070/1-A	Method Blank	Total/NA	Water	8141B	496070
LCS 280-496070/2-A	Lab Control Sample	Total/NA	Water	8141B	496070
LCSD 280-496070/3-A	Lab Control Sample Dup	Total/NA	Water	8141B	496070

Analysis Batch: 496581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-1	MW-13A	Total/NA	Water	8141B	495784
680-183984-2	OW-08A	Total/NA	Water	8141B	495784
680-183984-4	MW-08	Total/NA	Water	8141B	495784
680-183984-6	MW-14	Total/NA	Water	8141B	495784
680-183984-7	MW-11A	Total/NA	Water	8141B	495784
680-183984-10	OW-22	Total/NA	Water	8141B	495784
680-183984-12	MW-12A	Total/NA	Water	8141B	495784
680-183984-13	OW-06A	Total/NA	Water	8141B	495784
680-183984-15	MW-01B	Total/NA	Water	8141B	496195
MB 280-495784/1-A	Method Blank	Total/NA	Water	8141B	495784
MB 280-496195/1-A	Method Blank	Total/NA	Water	8141B	496195
LCS 280-495784/2-A	Lab Control Sample	Total/NA	Water	8141B	495784
LCS 280-496195/2-A	Lab Control Sample	Total/NA	Water	8141B	496195
LCSD 280-495784/3-A	Lab Control Sample Dup	Total/NA	Water	8141B	495784
LCSD 280-496195/3-A	Lab Control Sample Dup	Total/NA	Water	8141B	496195

Analysis Batch: 497269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-8	OW-21A	Total/NA	Water	8141B	495784
MB 280-495784/1-A	Method Blank	Total/NA	Water	8141B	495784
LCS 280-495784/2-A	Lab Control Sample	Total/NA	Water	8141B	495784
LCSD 280-495784/3-A	Lab Control Sample Dup	Total/NA	Water	8141B	495784

Prep Batch: 619717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-13	OW-06A	Total/NA	Water	3520C	
680-183984-15	MW-01B	Total/NA	Water	3520C	
MB 680-619717/21-A	Method Blank	Total/NA	Water	3520C	
LCS 680-619717/24-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-619717/25-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Prep Batch: 619804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-14	MW-09A	Total/NA	Water	3520C	
MB 680-619804/2-A	Method Blank	Total/NA	Water	3520C	
LCS 680-619804/3-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-619804/4-A	Lab Control Sample Dup	Total/NA	Water	3520C	

GC Semi VOA

Analysis Batch: 620197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-14	MW-09A	Total/NA	Water	8081B/8082A	619804
MB 680-619804/2-A	Method Blank	Total/NA	Water	8081B/8082A	619804
LCS 680-619804/3-A	Lab Control Sample	Total/NA	Water	8081B/8082A	619804
LCSD 680-619804/4-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	619804

Prep Batch: 620452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-3	OW-08A F	Dissolved	Water	3520C	
680-183984-9	OW-21A F	Dissolved	Water	3520C	
680-183984-11	OW-22 F	Dissolved	Water	3520C	
MB 680-620452/17-A	Method Blank	Total/NA	Water	3520C	
LCS 680-620452/18-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-620452/19-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Prep Batch: 620882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-1	MW-13A	Total/NA	Water	3520C	
680-183984-2	OW-08A	Total/NA	Water	3520C	
680-183984-4	MW-08	Total/NA	Water	3520C	
680-183984-5	Purge Water	Total/NA	Water	3520C	
680-183984-6	MW-14	Total/NA	Water	3520C	
680-183984-7	MW-11A	Total/NA	Water	3520C	
680-183984-8	OW-21A	Total/NA	Water	3520C	
680-183984-10	OW-22	Total/NA	Water	3520C	
680-183984-12	MW-12A	Total/NA	Water	3520C	
MB 680-620882/17-A	Method Blank	Total/NA	Water	3520C	
LCS 680-620882/20-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-620882/21-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 620934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-619717/21-A	Method Blank	Total/NA	Water	8081B/8082A	619717
LCS 680-619717/24-A	Lab Control Sample	Total/NA	Water	8081B/8082A	619717
LCSD 680-619717/25-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	619717

Analysis Batch: 621081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-13	OW-06A	Total/NA	Water	8081B/8082A	619717
680-183984-15	MW-01B	Total/NA	Water	8081B/8082A	619717

Analysis Batch: 621268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-620882/17-A	Method Blank	Total/NA	Water	8081B/8082A	620882
LCS 680-620882/20-A	Lab Control Sample	Total/NA	Water	8081B/8082A	620882
LCSD 680-620882/21-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	620882

Analysis Batch: 621337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-1	MW-13A	Total/NA	Water	8081B/8082A	620882
680-183984-2	OW-08A	Total/NA	Water	8081B/8082A	620882
680-183984-4	MW-08	Total/NA	Water	8081B/8082A	620882

GC Semi VOA (Continued)

Analysis Batch: 621337 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-5	Purge Water	Total/NA	Water	8081B/8082A	620882
680-183984-6	MW-14	Total/NA	Water	8081B/8082A	620882
680-183984-7	MW-11A	Total/NA	Water	8081B/8082A	620882
680-183984-10	OW-22	Total/NA	Water	8081B/8082A	620882
680-183984-12	MW-12A	Total/NA	Water	8081B/8082A	620882

Analysis Batch: 621712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-3	OW-08A F	Dissolved	Water	8081B/8082A	620452
680-183984-9	OW-21A F	Dissolved	Water	8081B/8082A	620452
680-183984-11	OW-22 F	Dissolved	Water	8081B/8082A	620452
MB 680-620452/17-A	Method Blank	Total/NA	Water	8081B/8082A	620452
LCS 680-620452/18-A	Lab Control Sample	Total/NA	Water	8081B/8082A	620452
LCSD 680-620452/19-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	620452

Analysis Batch: 621796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-8	OW-21A	Total/NA	Water	8081B/8082A	620882

Metals

Prep Batch: 619346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-2	OW-08A	Total Recoverable	Water	3005A	
680-183984-3	OW-08A F	Dissolved	Water	3005A	
680-183984-6	MW-14	Total Recoverable	Water	3005A	
680-183984-8	OW-21A	Total Recoverable	Water	3005A	
680-183984-9	OW-21A F	Dissolved	Water	3005A	
680-183984-10	OW-22	Total Recoverable	Water	3005A	
MB 680-619346/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-619346/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 619647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-2	OW-08A	Total Recoverable	Water	6010C	619346
680-183984-3	OW-08A F	Dissolved	Water	6010C	619346
680-183984-6	MW-14	Total Recoverable	Water	6010C	619346
680-183984-8	OW-21A	Total Recoverable	Water	6010C	619346
680-183984-9	OW-21A F	Dissolved	Water	6010C	619346
680-183984-10	OW-22	Total Recoverable	Water	6010C	619346
MB 680-619346/1-A	Method Blank	Total Recoverable	Water	6010C	619346
LCS 680-619346/2-A	Lab Control Sample	Total Recoverable	Water	6010C	619346

Prep Batch: 619854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-2	OW-08A	Total/NA	Water	7470A	
680-183984-3	OW-08A F	Dissolved	Water	7470A	
680-183984-4	MW-08	Total/NA	Water	7470A	
680-183984-6	MW-14	Total/NA	Water	7470A	
680-183984-8	OW-21A	Total/NA	Water	7470A	
680-183984-9	OW-21A F	Dissolved	Water	7470A	

Metals (Continued)

Prep Batch: 619854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-10	OW-22	Total/NA	Water	7470A	
MB 680-619854/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-619854/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 619855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-11	OW-22 F	Dissolved	Water	7470A	
680-183984-13	OW-06A	Total/NA	Water	7470A	
680-183984-14	MW-09A	Total/NA	Water	7470A	
680-183984-15	MW-01B	Total/NA	Water	7470A	
MB 680-619855/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-619855/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 620002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-2	OW-08A	Total/NA	Water	7470A	619854
680-183984-3	OW-08A F	Dissolved	Water	7470A	619854
680-183984-4	MW-08	Total/NA	Water	7470A	619854
680-183984-6	MW-14	Total/NA	Water	7470A	619854
680-183984-8	OW-21A	Total/NA	Water	7470A	619854
680-183984-9	OW-21A F	Dissolved	Water	7470A	619854
680-183984-10	OW-22	Total/NA	Water	7470A	619854
680-183984-11	OW-22 F	Dissolved	Water	7470A	619855
680-183984-13	OW-06A	Total/NA	Water	7470A	619855
680-183984-14	MW-09A	Total/NA	Water	7470A	619855
680-183984-15	MW-01B	Total/NA	Water	7470A	619855
MB 680-619854/1-A	Method Blank	Total/NA	Water	7470A	619854
MB 680-619855/1-A	Method Blank	Total/NA	Water	7470A	619855
LCS 680-619854/2-A	Lab Control Sample	Total/NA	Water	7470A	619854
LCS 680-619855/2-A	Lab Control Sample	Total/NA	Water	7470A	619855

Prep Batch: 620661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-4	MW-08	Total Recoverable	Water	3005A	
680-183984-11	OW-22 F	Dissolved	Water	3005A	
680-183984-13	OW-06A	Total Recoverable	Water	3005A	
680-183984-14	MW-09A	Total Recoverable	Water	3005A	
680-183984-15	MW-01B	Total Recoverable	Water	3005A	
MB 680-620661/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-620661/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 620833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-183984-4	MW-08	Total Recoverable	Water	6010C	620661
680-183984-11	OW-22 F	Dissolved	Water	6010C	620661
680-183984-13	OW-06A	Total Recoverable	Water	6010C	620661
680-183984-14	MW-09A	Total Recoverable	Water	6010C	620661
680-183984-15	MW-01B	Total Recoverable	Water	6010C	620661
MB 680-620661/1-A	Method Blank	Total Recoverable	Water	6010C	620661
LCS 680-620661/2-A	Lab Control Sample	Total Recoverable	Water	6010C	620661

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183984-1

Client Sample ID: MW-13A

Date Collected: 05/16/20 10:29
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1048.2 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D		1			620854	06/02/20 22:36	T1C	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1044 mL	5 mL	620882	06/02/20 17:20	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621337	06/05/20 00:29	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3510C			1054.1 mL	2 mL	495784	05/21/20 16:31	AC	TAL DEN
Total/NA	Analysis	8141B		1			496581	05/29/20 19:21	TMC	TAL DEN
	Instrument ID: SGC_D2									

Client Sample ID: OW-08A

Date Collected: 05/15/20 18:26
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	620364	05/29/20 16:49	SMP	TAL SAV
	Instrument ID: CMSA2									
Total/NA	Prep	3520C			1042.6 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D		1			620854	06/02/20 22:58	T1C	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1045.6 mL	5 mL	620882	06/02/20 17:20	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621337	06/05/20 00:43	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3510C			1041.8 mL	2 mL	495784	05/21/20 16:31	AC	TAL DEN
Total/NA	Analysis	8141B		1			496581	05/29/20 20:00	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	619346	05/20/20 10:42	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			619647	05/21/20 18:40	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619854	05/26/20 09:30	BCB	TAL SAV
Total/NA	Analysis	7470A		1			620002	05/26/20 19:20	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: OW-08A F

Date Collected: 05/15/20 18:26
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1046 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 23:05	JCK	TAL SAV
	Instrument ID: CSGJ									
Dissolved	Prep	3005A			50 mL	50 mL	619346	05/20/20 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			619647	05/21/20 18:44	BWR	TAL SAV
	Instrument ID: ICPE									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183984-1

Client Sample ID: OW-08A F

Date Collected: 05/15/20 18:26
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			50 mL	50 mL	619854	05/26/20 09:30	BCB	TAL SAV
Dissolved	Analysis	7470A		1			620002	05/26/20 19:28	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: MW-08

Date Collected: 05/18/20 10:08
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	620539	05/30/20 17:07	SMP	TAL SAV
	Instrument ID: CMSA2									
Total/NA	Prep	3520C			1031.4 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D		1			620854	06/02/20 23:20	T1C	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1049.7 mL	5 mL	620882	06/02/20 17:20	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621337	06/05/20 00:58	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3510C			1041.5 mL	2 mL	495784	05/21/20 16:31	AC	TAL DEN
Total/NA	Analysis	8141B		1			496581	05/29/20 20:39	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	620661	06/01/20 10:31	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			620833	06/02/20 00:33	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619854	05/26/20 09:30	BCB	TAL SAV
Total/NA	Analysis	7470A		1			620002	05/26/20 19:15	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: Purge Water

Date Collected: 05/18/20 13:58
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1050.1 mL	5 mL	620882	06/02/20 17:20	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621337	06/05/20 01:12	JCK	TAL SAV
	Instrument ID: CSGJ									

Client Sample ID: MW-14

Date Collected: 05/18/20 10:30
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	620539	05/30/20 17:31	SMP	TAL SAV
	Instrument ID: CMSA2									
Total/NA	Prep	3520C			982 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D		1			620854	06/03/20 00:27	T1C	TAL SAV
	Instrument ID: CMST									

Client Sample ID: MW-14

Lab Sample ID: 680-183984-6

Date Collected: 05/18/20 10:30

Matrix: Water

Date Received: 05/19/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			944.1 mL	5 mL	620882	06/02/20 17:20	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621337	06/05/20 01:26	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3510C			1039.4 mL	2 mL	495784	05/21/20 16:31	AC	TAL DEN
Total/NA	Analysis	8141B		1			496581	05/29/20 21:18	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	619346	05/20/20 10:42	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			619647	05/21/20 18:21	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619854	05/26/20 09:30	BCB	TAL SAV
Total/NA	Analysis	7470A		1			620002	05/26/20 19:11	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: MW-11A

Lab Sample ID: 680-183984-7

Date Collected: 05/16/20 16:47

Matrix: Water

Date Received: 05/19/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1050.7 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D		1			620854	06/03/20 00:49	T1C	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1046.7 mL	5 mL	620882	06/02/20 17:20	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621337	06/05/20 01:41	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3510C			1049.1 mL	2 mL	495784	05/21/20 16:31	AC	TAL DEN
Total/NA	Analysis	8141B		1			496581	05/29/20 21:57	TMC	TAL DEN
	Instrument ID: SGC_D2									

Client Sample ID: OW-21A

Lab Sample ID: 680-183984-8

Date Collected: 05/16/20 19:07

Matrix: Water

Date Received: 05/19/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	5 mL	5 mL	620367	05/29/20 16:51	SMP	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			1050.9 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D		1			620854	06/03/20 01:11	T1C	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C	DL		1050.9 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D	DL	5			620999	06/03/20 16:26	DBM	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C	DL2		1050.9 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D	DL2	100			620999	06/03/20 16:48	DBM	TAL SAV
	Instrument ID: CMST									

Client Sample ID: OW-21A
Date Collected: 05/16/20 19:07
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1028.7 mL	5 mL	620882	06/02/20 17:20	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		10			621796	06/09/20 17:47	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3510C			1040.5 mL	2 mL	495784	05/21/20 16:31	AC	TAL DEN
Total/NA	Analysis	8141B		1000			497269	06/03/20 22:28	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	619346	05/20/20 10:42	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			619647	05/21/20 18:26	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619854	05/26/20 09:30	BCB	TAL SAV
Total/NA	Analysis	7470A		1			620002	05/26/20 19:07	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: OW-21A F
Date Collected: 05/16/20 19:07
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1038.9 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 23:20	JCK	TAL SAV
	Instrument ID: CSGJ									
Dissolved	Prep	3005A			50 mL	50 mL	619346	05/20/20 10:42	AJR	TAL SAV
Dissolved	Analysis	6010C		1			619647	05/21/20 18:54	BWR	TAL SAV
	Instrument ID: ICPE									
Dissolved	Prep	7470A			50 mL	50 mL	619854	05/26/20 09:30	BCB	TAL SAV
Dissolved	Analysis	7470A		1			620002	05/26/20 19:24	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: OW-22
Date Collected: 05/16/20 19:04
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	620364	05/29/20 17:13	SMP	TAL SAV
	Instrument ID: CMSA2									
Total/NA	Prep	3520C			1050.7 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D		1			620999	06/03/20 17:09	DBM	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1041.4 mL	5 mL	620882	06/02/20 17:20	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621337	06/05/20 02:10	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3510C			1055.1 mL	2 mL	495784	05/21/20 16:31	AC	TAL DEN
Total/NA	Analysis	8141B		1			496581	05/29/20 23:16	TMC	TAL DEN
	Instrument ID: SGC_D2									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183984-1

Client Sample ID: OW-22
Date Collected: 05/16/20 19:04
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	619346	05/20/20 10:42	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			619647	05/21/20 18:49	BWR	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619854	05/26/20 09:30	BCB	TAL SAV
Total/NA	Analysis	7470A		1			620002	05/26/20 19:02	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: OW-22 F
Date Collected: 05/16/20 19:04
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1038.6 mL	5 mL	620452	05/29/20 16:59	EHS	TAL SAV
Dissolved	Analysis	8081B/8082A		1			621712	06/08/20 23:34	JCK	TAL SAV
	Instrument ID: CSGJ									
Dissolved	Prep	3005A			50 mL	50 mL	620661	06/01/20 10:31	AJR	TAL SAV
Dissolved	Analysis	6010C		1			620833	06/02/20 00:29	BCB	TAL SAV
	Instrument ID: ICPE									
Dissolved	Prep	7470A			50 mL	50 mL	619855	05/26/20 09:31	BCB	TAL SAV
Dissolved	Analysis	7470A		1			620002	05/27/20 00:07	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: MW-12A
Date Collected: 05/16/20 10:41
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1051.7 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D		1			620999	06/03/20 17:31	DBM	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1049.8 mL	5 mL	620882	06/02/20 17:20	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621337	06/05/20 02:24	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3510C			1048.2 mL	2 mL	495784	05/21/20 16:31	AC	TAL DEN
Total/NA	Analysis	8141B		1			496581	05/29/20 23:55	TMC	TAL DEN
	Instrument ID: SGC_D2									

Client Sample ID: OW-06A
Date Collected: 05/18/20 12:07
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	620539	05/30/20 17:54	SMP	TAL SAV
	Instrument ID: CMSA2									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183984-1

Client Sample ID: OW-06A
Date Collected: 05/18/20 12:07
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1016.2 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D		1			620999	06/03/20 17:53	DBM	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1049.6 mL	5 mL	619717	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621081	06/03/20 17:21	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3510C			1053.5 mL	2 mL	495784	05/21/20 16:31	AC	TAL DEN
Total/NA	Analysis	8141B		1			496581	05/30/20 00:34	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	620661	06/01/20 10:31	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			620833	06/02/20 00:24	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619855	05/26/20 09:31	BCB	TAL SAV
Total/NA	Analysis	7470A		1			620002	05/26/20 23:54	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: MW-09A
Date Collected: 05/18/20 09:52
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	620539	05/30/20 18:18	SMP	TAL SAV
	Instrument ID: CMSA2									
Total/NA	Prep	3520C			1046.7 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D		1			620999	06/03/20 18:15	DBM	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1048.2 mL	5 mL	619804	05/23/20 15:48	CMJ	TAL SAV
Total/NA	Analysis	8081B/8082A		1			620197	05/28/20 01:41	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3510C			1046.3 mL	2 mL	496070	05/25/20 10:25	AC	TAL DEN
Total/NA	Analysis	8141B		1			496369	05/28/20 11:32	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	620661	06/01/20 10:31	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			620833	06/02/20 00:10	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619855	05/26/20 09:31	BCB	TAL SAV
Total/NA	Analysis	7470A		1			620002	05/27/20 00:11	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: MW-01B
Date Collected: 05/16/20 09:47
Date Received: 05/19/20 09:40

Lab Sample ID: 680-183984-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	620364	05/29/20 17:36	SMP	TAL SAV
	Instrument ID: CMSA2									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183984-1

Client Sample ID: MW-01B

Lab Sample ID: 680-183984-15

Date Collected: 05/16/20 09:47

Matrix: Water

Date Received: 05/19/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1040.3 mL	1 mL	619700	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8270D		1			620999	06/03/20 18:37	DBM	TAL SAV
	Instrument ID: CMST									
Total/NA	Prep	3520C			1036.3 mL	5 mL	619717	05/22/20 18:50	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			621081	06/03/20 17:35	JCK	TAL SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3510C			1042.8 mL	2 mL	496195	05/26/20 13:10	AC	TAL DEN
Total/NA	Analysis	8141B		1			496581	05/29/20 15:26	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	620661	06/01/20 10:31	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			620833	06/02/20 00:38	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Prep	7470A			50 mL	50 mL	619855	05/26/20 09:31	BCB	TAL SAV
Total/NA	Analysis	7470A		1			620002	05/27/20 00:16	BWR	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: Trip Blank 20200518R

Lab Sample ID: 680-183984-16

Date Collected: 05/18/20 00:00

Matrix: Water

Date Received: 05/19/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	620523	05/30/20 18:58	SMP	TAL SAV
	Instrument ID: CMSC									

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Job ID: 680-183984-1
Project/Site: Anniston RCRA April 2020

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-20

Laboratory: Eurofins TestAmerica, Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	01-05-21
A2LA	ISO/IEC 17025	2907.01	01-05-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-19-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	06-30-20
Georgia	State	4025-011	01-08-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-20
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-21-20
Nevada	State	CO000262020-1	07-31-20
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-20
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-20-20
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-20-18	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	CO000262019-11	07-31-20
Virginia	NELAP	10490	06-10-20
Washington	State	C583-19	08-03-20
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-30-20
Wyoming (UST)	A2LA	2907.01	01-05-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-183984-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	TAL DEN
6010C	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
7470A	Preparation, Mercury	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody Record 363779

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: Solutia	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address:	Analysis Turnaround Time			Sampler:
City/State/Zip: Anniston	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: RCRA	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name:	☐ 1 week			Job / SDG No.:
Site:	☐ 2 days			
PO# 68018993	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8081/8082	8270	8141	9260	(FF) 8081/8082	(FF) 8270 (SIM)	Sample Specific Notes:
MW-13A	05/15/20	1824						2	2	2				
DW-08A	05/15/20	1826						2	2	2	1	3		
DW-08A (FF)	05/15/20	1826											2	1
MW-08	05/18/20	1008						2	2	2	1	3		
Purge Water	05/18/20	1358						2						
MW-14	05/18/20	1030						2	2	2	1	3		
MW-11A	05/16/20	1647						2		2				
DW-21A	05/16/20	1907						2	2	2	1	3		
DW-21A (FF)	05/16/20	1907											2	1
DW-22	05/16/20	1904						2	2	2	1	3		
DW-22 (FF)	05/16/20	1904											2	1
MW-12A	05/16/20	1041						2	2	2				

680-183984 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
1.3 | 2.2 | 2.0 | 1.6 | 1.3 | 3.6 | 3.6 (FF) | 1.7 | 2.6 | 2.4 | 2.0 | 1.7 | 4.0 | 4.0 °C

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
			CS Bauder	05-19-20	0940
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Chain of Custody Record 362987

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: Solutia	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address:	Analysis Turnaround Time			Sampler:
City/State/Zip: Anniston	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: RCRA	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name:	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO# 680 18993	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8081/8082	8270	8141	6010	9056	(FA) 8081/8082	(FA) 6010	Sample Specific Notes:
DW-06A	05-18-20	1207						1		1		3			
MW-09A	05-18-20	0952										3			
MW-01B	05-15-20	0747										3			
Trip Blank 20200518R	05-18-20											2			

Loc: 680 183984

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
			[signature]	05-19-20	0940
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Te.. TestAmerica

Client Information	Sampler: JL, NRG, STR	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113805-43640.1
Client Contact: Ben Smith	Phone: 713-522-6300	E-Mail: willie.hallmon@testamericainc.com		Page: Page 1 of 3
Company: GSI Environmental, Inc				Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days): Standard			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 45008622			
Email: WBSmith@gsi-net.com, NRGodwin@gsi-net.com	WO #:			
Project Name: Anniston RCRA April 2020	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B - 8141	8270D - 8270 SVOCs	6010C - 6010 Metals	8260B - 8260 VOCs	8081B_8082A - 8082 PCBs	8260B - 8260 Trip Blanks	8270D - 4-NP/ooo-TEPP	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered	6010C, 7470A - Mercury				Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	D	A	N	A	N	N	D					
MW-01B	5/16/20	9:47	G	Water			X	X	X	X	X				X				10	cobalt Mercury (7470)
MW-08	5/18/20	10:08	G	Water			X	X	X	X	X				X				10	cobalt Mercury (7470)
MW-09A	5/18/20	9:57	G	Water			X	X	X	X	X				X				10	cobalt Mercury (7470)
~~MW-15~~				Water																
~~MW-16~~				Water																
OW-06A	5/18/20	12:07	G	Water			X	X	X	X	X				X				10	cobalt
~~OW-15~~				Water																
OW-22	5/16/20	19:04	G	Water			X	X	X	X	X				X				10	cobalt
MW-14	5/18/20	10:30	G	Water			X	X	X	X	X				X				10	cobalt + manganese
~~MW-20~~				Water																
~~MW-20-MS~~				Water																

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level II

Special Instructions/QC Requirements: 7470A - only Mercury

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fedex

Relinquished by:	Company	Received by:	Date/Time:	Company
Relinquished by:	Company	Received by:	Date/Time:	Company
Relinquished by:	Company	Received by:	Date/Time:	Company

680-183984 Chain of Custody

Custody Seals Intact: ☐ Yes ☐ No | C.

Cooler Temperature(s) °C and Other Remarks: 8.6/8.8 (CF) 9.0/9.2°C

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: JL, WRG, STR	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113805-43640.2
Client Contact: Ben Smith	Phone: 713-522-6300	E-Mail: willie.hallmon@testamericainc.com		Page: Page 2 of 3
Company: GSI Environmental, Inc		Analysis Requested		Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Houston	TAT Requested (days): Standard			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 45008622			Other:
Email: WBSmith@gsi-net.com	WO #:			
Project Name: Anniston RCRA April 2020	Project #: 68018993			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B - 8141	8270D - 8270 SVOCs	6010C - 6010 Metals	8260B - 8260 VOCs	8081B_8082A - 8082 PCBs	8260B - 8260 Trip Blanks	8270D - 4-NP/ooc-TEPP	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered	6010C, 7470A Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	A	N	A	N	N	D		
~~MW-20 MSD~~				Water													
OW-08A	5/15/20	1826	G	Water			X	X	X	X	X				X	10	cobalt + manganese late shipment
~~OW-16A~~				Water													
OW-21A	5/16/20	19:07	G	Water			X	X	X	X	X				X	10	cobalt + manganese
~~FIELD DUPLICATE 1~~				Water													
~~Trip Blank~~				Water													
Trip Blank # 20200518R	5/18/20	—	G	Water								X				2	
~~Trip Blank 3~~				Water													
				Water													
MW-11A	5/16/20	16:47	G	Water			X	X			X					6	
MW-12A	5/16/20	10:41	G	Water			X	X			X					6	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify): level II

Special Instructions/QC Requirements: 7470A - only Mercury

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: fedex		
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 05-21-20	Company: ESS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 8.6/8.8 (G=) 9.0/9.2°c

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: JL, WRG, STR	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-113805-43640.3
Client Contact: Ben Smith	Phone: 713-522-6300	E-Mail: willie.hallmon@testamericainc.com		Page: Page 3 of 3
Company: GSI Environmental, Inc				Job #:
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days): Standard			
State, Zip: TX, 77098-4044				
Phone: 713-522-6300(Tel)	PO #: 45008622			
Email: WBSmith@gsi-net.com	WO #:			
Project Name: Anniston RCRA April 2020	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B - 8141	8270D - 8270 SVOCs	6010C - 6010 Metals	8260B - 8260 VOCs	8081B_8082A - 8082 PCBs	8260B - 8260 Trip Blanks	8270D - 4-NP/oo-TEPP	8081B_8082A - (MOD) Dissolved PCBs - Field Filtered	6010C, 7470A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	A	N	A	N	N	D		
MW-13A	5/16/20	10:29	G	Water	N	N	X	X	[redacted]	[redacted]	X	[redacted]	[redacted]			6	Parathion (8141)
~~MW-13 (Field Filtered)~~				Water													
~~MW-18 (Field Filtered)~~				Water													
~~OW-22 (Field Filtered)~~ OW-22F	5/16/20	9:04	G	Water	Y	N			X					X	X	3	(dissolved) Cobalt (6010)
~~MW-08A (Field Filtered)~~ OW-08AF	5/15/20	10:08	G	Water	Y	N			X					X	X	3	late shipment (dissolved) cobalt + mn
~~OW-15 (Field Filtered)~~				Water													
~~OW-16A (Field Filtered)~~				Water													
OW-21A (Field Filtered)	5/16/20	9:07	G	Water	Y	N			X					X	X	3	cobalt + manganese (dissolved)
~~MW-20A (Field Filtered)~~				Water													
Purge Water	5/18/20	13:38	C	Water	N	N					X					2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify): level II

Special Instructions/QC Requirements: 7470A - only Mercury

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	05-21-20	915
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 8.6/8.8 (CF) 9.0/9.2°C

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-611723.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: willie.hallmon@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Alabama		Job #: 680-183984-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 5/29/2020			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Anniston RCRA April 2020	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion	8141B/3510C Parathion/Sulfotepp	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-13A (680-183984-1)	5/15/20	18:24 Central		Water			X		2	
OW-08A (680-183984-2)	5/15/20	18:26 Central		Water				X	2	
MW-08 (680-183984-4)	5/18/20	10:08 Central		Water				X	2	
MW-14 (680-183984-6)	5/18/20	10:30 Central		Water				X	2	
MW-11A (680-183984-7)	5/16/20	16:47 Central		Water			X		2	
OW-21A (680-183984-8)	5/16/20	19:07 Central		Water				X	2	
OW-22 (680-183984-10)	5/16/20	19:04 Central		Water				X	2	
MW-12A (680-183984-12)	5/16/20	10:41 Central		Water			X		2	
OW-06A (680-183984-13)	5/18/20	12:07 Central		Water				X	1	

680-183984 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	5-20-20 1600	TA	[signature]	5-21-20 0935	EHADEW
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: 167010	Cooler Temperature(s) °C and Other Remarks: 1.3, IR3, +0.6, DS, 5/21/20

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-612024.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: willie.hallmon@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Alabama		Job #: 680-183984-1
Address: 4955 Yarrow Street,	Due Date Requested: 6/3/2020			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Anniston RCRA April 2020	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion/Sulfotepp	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-09A (680-183984-14)	5/18/20	09:52 Central		Water			X	2	
MW-01B (680-183984-15)	5/15/20	07:47 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	5-22-20 1600	TA		5-23-20 0855	ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: -0.4°C IR #F0.6C 5-23-20

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-183984-1

Login Number: 183984
List Number: 1
Creator: Banda, Christy S

List Source: Eurofins TestAmerica, Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	False	Refer to Job Narrative for details.
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-183984-1

Login Number: 183984
List Number: 2
Creator: Schade, Daniel B

List Source: Eurofins TestAmerica, Denver
List Creation: 05/21/20 03:00 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-183984-1

Login Number: 183984
List Number: 3
Creator: Lubin, Julius C

List Source: Eurofins TestAmerica, Denver
List Creation: 05/23/20 01:04 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

OCTOBER 2020 LABORATORY REPORTS

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QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: RCRA Groundwater Monitoring Project Number: 680-190509-1
Reviewer: Ben Smith Validation Date: 2 December 2020

Laboratory: Eurofins TestAmerica Savannah SDG #: ANST190509
Analytical Method (type and no.): VOCs (8260B), SVOCS (8270D), Pesticides (8141B), PCBs (8081B/8082A)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: MW-01B, MW-15, MS (@ MW-15), MSD (@ MW-15), MW-16, MW-20A, Duplicate, Trip Blank 20201023, MW-11A, MW-12A, MW-13A

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	**YES**	**NO**	**NA**	**COMMENTS**
a) Sampling dates noted?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted? 20201023 collected.	☒	☐	☐	Duplicate, MS/MSD, and Trip Blank
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☒	☐	☐	
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☒	☐	☐	

Note Deficiencies: Method 8141B for the MSD sample was not analyzed due to inter-lab transfer error.

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☐	☒	☐	One 1-liter amber glass bottle was received broken, however additional volume in another bottle was available so no analyses were affected.

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	The lab incorrectly identified that method 8141B for Duplicate was prepared outside of hold time, even though the sample was adequately prepared within 7 days of the sample collection date.
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☐	☒	☐	RCRA permit-specified RL for Sulfotepp (Tetraethyldithiopyrophosphate) is 0.5 ug/L, but only 1.5 ug/L is achievable by lab. RLs were elevated for PCB Aroclors in MW-16 due to dilution.
f) Were any sample dilutions noted?	☒	☐	☐	Only for 8081/8082 in MW-16 (DF=10)
g) Were any matrix problems noted?	☒	☐	☐	Dilution of MW-16 for method 8081/8082 was required due to the "nature of the sample matrix," which resulted in elevated RLs and surrogate recovery issues. Surrogate recovery issues in MW-16 for 8141B were also attributed to matrix issues.

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☒	☐	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				Original: MW-20A
	☒	☐	☐	Duplicate: Duplicate
b) Were field dup. precision criteria met (note RPD)?	☒	☐	☐	Chlorobenzene = 2.5%, O,O,O-triethylphosphorothioate = 3.0%
c) Were lab duplicates analyzed (note original and duplicate samples)?				Multiple LCSDs.
	☒	☐	☐	
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	All LCSD RPDs ≤ 14%

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☒	☐	
b) Was MSD accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☒	☐	
c) Were MS/MSD precision criteria met?	☒	☐	☐	All RPDs ≤ 33%

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☒	☐	FBP, NBZ, and TBP recovered low for 8270 in MW-01B, MW-16, MW-20A, Duplicate, and MW-11A. 2FP and PHL also recovered low for 8270D in Duplicate. For 4-nitrophenol and O,O,O-triethylphosphorothioate, qualify detections as estimated (J) and non-detects as estimated (UJ). TBP recovered low in the MS sample but not in the parent sample MW-15, so no data are qualified. Chlormefos recovered low for method 8141B for MW-16, so non-detects of Parathion and Tetraethyldithiopyrophosphate are qualified as estimated (J).
b) Were surrogate recoveries not calculated due to dilutions?	☒	☐	☐	Recovery of DCB and TCX for MW-16 were not calculated due to dilution.

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:
Qualify 8270D and 8141B results in select wells as described above due to low surrogate recoveries.

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
MW-01B	4-Nitrophenol	<25 ug/L	UJ	Low FBP, NBZ, TBP recoveries
MW-01B	O,O,O-Triethylphosphorothioate	<10 ug/L	UJ	Low FBP, NBZ, TBP recoveries
MW-16	4-Nitrophenol	44 ug/L	J	Low FBP, NBZ recoveries
MW-16	O,O,O-Triethylphosphorothioate	32 ug/L	J	Low FBP, NBZ recoveries
MW-20A	4-Nitrophenol	<25 ug/L	UJ	Low FBP, TBP recoveries
MW-20A	O,O,O-Triethylphosphorothioate	34 ug/L	J	Low FBP, TBP recoveries
Duplicate	4-Nitrophenol	<25 ug/L	UJ	Low FBP, 2FP, NBZ, PHL, TBP recoveries
Duplicate	O,O,O-Triethylphosphorothioate	33 ug/L	J	Low FBP, 2FP, NBZ, PHL, TBP recoveries
MW-11A	4-Nitrophenol	<25 ug/L	UJ	Low FBP, NBZ, TBP recoveries
MW-11A	O,O,O-Triethylphosphorothioate	<10 ug/L	UJ	Low FBP, NBZ, TBP recoveries
MW-16	Parathion	<1 ug/L	UJ	Low Chlormefos recovery
MW-16	Tetraethyldithiopyrophosphate	<1.5 ug/L	UJ	Low Chlormefos recovery

Signature: Wade Benjamin Smith Date: 2 December 2020

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: RCRA Groundwater Monitoring Project Number: 680-190509-1
Reviewer: Ben Smith Validation Date: 2 December 2020

Laboratory: Eurofins TestAmerica Savannah SDG #: ANST190509
Analytical Method (type and no.): Cobalt by 6010C
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: MW-01B, MW-15, MS (@ MW-15), MSD (@ MW-15), MW-16, MW-20A, Duplicate

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	**YES**	**NO**	**NA**	**COMMENTS**
a) Sampling dates noted?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	Duplicate and MS/MSD collected.
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☒	☐	☐	
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	

Note Deficiencies:

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	.
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

General (reference QAPP or Method)	**YES**	**NO**	**NA**	**COMMENTS**
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☐	☒	☐	
g) Were any matrix problems noted?	☐	☒	☐	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	**YES**	**NO**	**NA**	**COMMENTS**
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	**YES**	**NO**	**NA**	**COMMENTS**
a) Were field duplicates collected (note original and duplicate sample names)?				Original: MW-20A
	☒	☐	☐	Duplicate: Duplicate
b) Were field dup. precision criteria met (note RPD)?	☐	☐	☒	Cobalt not detected.
c) Were lab duplicates analyzed (note original and duplicate samples)?				
	☐	☒	☐	
d) Were lab dup. precision criteria met (note RPD)?	☐	☐	☒	

Blind Standards	**YES**	**NO**	**NA**	**COMMENTS**
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was MS accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☒	☐	
b) Was MSD accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☒	☐	
c) Were MS/MSD precision criteria met?	☒	☐	☒	RPD = 3% for Co for MS/MSD

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:
No data requires qualification.

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: Wade Benjamin Smith Date: 2 December 2020

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-190509-1
Client Project/Site: Anniston RCRA April 2020
Revision: 1

For:
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Attn: Ben Smith

Amy Weinberg

Authorized for release by:
11/12/2020 4:59:45 PM

Amy Weinberg, Project Manager II
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LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
X	Surrogate recovery exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
H	Sample was prepped or analyzed beyond the specified holding time
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate recovery exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 680-190509-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

Job Narrative
680-190509-1

Comments
No additional comments.

Receipt
The samples were received on 10/24/2020 9:50 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 2.9º C, 3.7º C, 4.6º C, 4.8º C, 5.3º C, 5.4º C and 5.4º C.

Receipt Exceptions
Containers for method 8141B only were not received in the Denver lab for -2MSD due to inter-lab transfer error. In addition, one liter amber glass bottle was received broken.

GC/MS VOA
Method 8260B: Internal standard (ISTD) response for 1,4-Dichlorobenzene-D4 for the following samples were outside acceptance criteria: MW-16 (680-190509-3), MW-20 A (680-190509-4) and Duplicate (680-190509-5). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: Surrogate recovery was outside acceptance limits for the following matrix spike (MS) sample: MW-15 (680-190509-2[MS]). The parent sample's surrogate recovery was within limits. The MS sample has been qualified and reported.

Method 8270D: Internal standard (ISTD) response for Chrysene-d10 for the following sample was outside acceptance criteria: MW-01 B (680-190509-1). This ISTD does not correspond to any of the requested target compounds; therefore, the data has been reported.

Method 8270D: Surrogate recovery for the following samples was outside acceptance limits: MW-01 B (680-190509-1), MW-16 (680-190509-3), MW-20 A (680-190509-4), Duplicate (680-190509-5) and MW-11A (680-190509-7). Re-extraction would have been outside of holding time. The results have been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B/8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: (680-190893-A-42-N MS) and (680-190893-A-46-H MS). These results have been reported and qualified.

Method 8081B/8082A: The following sample required a dilution due to the nature of the sample matrix: MW-16 (680-190509-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B/8082A: The following sample was diluted due to the nature of the sample matrix: MW-16 (680-190509-3). Elevated reporting limits (RLs) are provided.

Method 8141B: Surrogate recovery for the following sample was outside control limits: MW-16 (680-190509-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8141B: The continuing calibration verification (CCV) associated with batch preparation batch 280-514445 and analytical batch 280-514956 recovered outside acceptance criteria, low biased, for see internal comments. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8141B; The following sample was re-prepared outside of preparation holding time: Duplicate (680-190509-5).

Job ID: 680-190509-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-190509-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-190509-1	MW-01 B	Water	10/21/20 11:45	10/24/20 09:50	
680-190509-2	MW-15	Water	10/22/20 15:49	10/24/20 09:50	
680-190509-3	MW-16	Water	10/21/20 17:11	10/24/20 09:50	
680-190509-4	MW-20 A	Water	10/21/20 14:41	10/24/20 09:50	
680-190509-5	Duplicate	Water	10/21/20 00:00	10/24/20 09:50	
680-190509-6	Trip Blank 20201023	Water	10/23/20 00:00	10/24/20 09:50	
680-190509-7	MW-11A	Water	10/22/20 13:34	10/24/20 09:50	
680-190509-8	MW-12A	Water	10/22/20 10:06	10/24/20 09:50	
680-190509-9	MW-13A	Water	10/22/20 07:42	10/24/20 09:50	

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-190509-1

Client Sample ID: MW-01 B — Lab Sample ID: 680-190509-1

No Detections.

Client Sample ID: MW-15 — Lab Sample ID: 680-190509-2

No Detections.

Client Sample ID: MW-16 — Lab Sample ID: 680-190509-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Nitrophenol	44		25	1.8	ug/L	1		8270D	Total/NA
o,o',o''-Triethylphosphorothioate	32		10	0.96	ug/L	1		8270D	Total/NA

Client Sample ID: MW-20 A — Lab Sample ID: 680-190509-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	3.9		1.0	0.26	ug/L	1		8260B	Total/NA
o,o',o''-Triethylphosphorothioate	34		10	0.98	ug/L	1		8270D	Total/NA

Client Sample ID: Duplicate — Lab Sample ID: 680-190509-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	4.0		1.0	0.26	ug/L	1		8260B	Total/NA
o,o',o''-Triethylphosphorothioate	33		10	0.99	ug/L	1		8270D	Total/NA

Client Sample ID: Trip Blank 20201023 — Lab Sample ID: 680-190509-6

No Detections.

Client Sample ID: MW-11A — Lab Sample ID: 680-190509-7

No Detections.

Client Sample ID: MW-12A — Lab Sample ID: 680-190509-8

No Detections.

Client Sample ID: MW-13A — Lab Sample ID: 680-190509-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-01 B

Date Collected: 10/21/20 11:45
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			11/02/20 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/02/20 15:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*73 - 131*		*11/02/20 15:31*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 122*		*11/02/20 15:31*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*11/02/20 15:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		10/28/20 21:26	11/04/20 21:05	1
o,o',o''-Triethylphosphorothioate	<10		10	0.97	ug/L		10/28/20 21:26	11/04/20 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*28*	*X*	*32 - 113*	*10/28/20 21:26*	*11/04/20 21:05*	*1*
2-Fluorophenol	*27*		*26 - 109*	*10/28/20 21:26*	*11/04/20 21:05*	*1*
Nitrobenzene-d5	*30*	*X*	*32 - 118*	*10/28/20 21:26*	*11/04/20 21:05*	*1*
Phenol-d5	*28*		*27 - 110*	*10/28/20 21:26*	*11/04/20 21:05*	*1*
Terphenyl-d14	*39*	**3*	*10 - 126*	*10/28/20 21:26*	*11/04/20 21:05*	*1*
2,4,6-Tribromophenol	*31*	*X*	*39 - 124*	*10/28/20 21:26*	*11/04/20 21:05*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		11/05/20 19:58	11/06/20 23:30	1
PCB-1221	<0.50		0.50	0.093	ug/L		11/05/20 19:58	11/06/20 23:30	1
PCB-1232	<0.50		0.50	0.12	ug/L		11/05/20 19:58	11/06/20 23:30	1
PCB-1242	<0.50		0.50	0.093	ug/L		11/05/20 19:58	11/06/20 23:30	1
PCB-1248	<0.50		0.50	0.10	ug/L		11/05/20 19:58	11/06/20 23:30	1
PCB-1254	<0.50		0.50	0.054	ug/L		11/05/20 19:58	11/06/20 23:30	1
PCB-1260	<0.50		0.50	0.059	ug/L		11/05/20 19:58	11/06/20 23:30	1
PCB-1268	<0.50		0.50	0.12	ug/L		11/05/20 19:58	11/06/20 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*14 - 130*	*11/05/20 19:58*	*11/06/20 23:30*	*1*
Tetrachloro-m-xylene	*99*		*40 - 130*	*11/05/20 19:58*	*11/06/20 23:30*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		10/28/20 15:10	10/31/20 00:02	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.16	ug/L		10/28/20 15:10	10/31/20 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*93*		*60 - 154*	*10/28/20 15:10*	*10/31/20 00:02*	*1*
Chlormefos	*62*		*49 - 171*	*10/28/20 15:10*	*10/31/20 00:02*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		10/28/20 11:48	10/29/20 10:11	1

Client Sample ID: MW-15

Date Collected: 10/22/20 15:49
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			11/03/20 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/03/20 18:09*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/03/20 21:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*73 - 131*		*11/03/20 18:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*		*11/03/20 21:06*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*11/03/20 18:09*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 122*		*11/03/20 21:06*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/03/20 18:09*	*1*
4-Bromofluorobenzene (Surr)	*115*		*80 - 120*		*11/03/20 21:06*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		10/28/20 21:26	11/04/20 21:28	1
o,o',o''-Triethylphosphorothioate	<10		10	0.96	ug/L		10/28/20 21:26	11/04/20 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*34*		*32 - 113*	*10/28/20 21:26*	*11/04/20 21:28*	*1*
2-Fluorophenol	*31*		*26 - 109*	*10/28/20 21:26*	*11/04/20 21:28*	*1*
Nitrobenzene-d5	*35*		*32 - 118*	*10/28/20 21:26*	*11/04/20 21:28*	*1*
Phenol-d5	*33*		*27 - 110*	*10/28/20 21:26*	*11/04/20 21:28*	*1*
Terphenyl-d14	*49*		*10 - 126*	*10/28/20 21:26*	*11/04/20 21:28*	*1*
2,4,6-Tribromophenol	*39*		*39 - 124*	*10/28/20 21:26*	*11/04/20 21:28*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		11/05/20 19:58	11/06/20 23:44	1
PCB-1221	<0.50		0.50	0.092	ug/L		11/05/20 19:58	11/06/20 23:44	1
PCB-1232	<0.50		0.50	0.12	ug/L		11/05/20 19:58	11/06/20 23:44	1
PCB-1242	<0.50		0.50	0.092	ug/L		11/05/20 19:58	11/06/20 23:44	1
PCB-1248	<0.50		0.50	0.10	ug/L		11/05/20 19:58	11/06/20 23:44	1
PCB-1254	<0.50		0.50	0.053	ug/L		11/05/20 19:58	11/06/20 23:44	1
PCB-1260	<0.50		0.50	0.058	ug/L		11/05/20 19:58	11/06/20 23:44	1
PCB-1268	<0.50		0.50	0.12	ug/L		11/05/20 19:58	11/06/20 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*14 - 130*	*11/05/20 19:58*	*11/06/20 23:44*	*1*
Tetrachloro-m-xylene	*70*		*40 - 130*	*11/05/20 19:58*	*11/06/20 23:44*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		10/28/20 15:10	10/31/20 00:41	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.16	ug/L		10/28/20 15:10	10/31/20 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*88*		*60 - 154*	*10/28/20 15:10*	*10/31/20 00:41*	*1*
Chlormefos	*65*		*49 - 171*	*10/28/20 15:10*	*10/31/20 00:41*	*1*

Client Sample ID: MW-15

Date Collected: 10/22/20 15:49
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-2
Matrix: Water

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		10/28/20 11:48	10/29/20 09:30	1

Client Sample ID: MW-16

Date Collected: 10/21/20 17:11
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			10/31/20 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/31/20 18:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*10/31/20 18:48*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 122*		*10/31/20 18:48*	*1*
4-Bromofluorobenzene (Surr)	*110*	**3*	*80 - 120*		*10/31/20 18:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	**44**		25	1.8	ug/L		10/28/20 21:26	11/04/20 21:52	1
o,o',o''-Triethylphosphorothioate	**32**		10	0.96	ug/L		10/28/20 21:26	11/04/20 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*28*	*X*	*32 - 113*	*10/28/20 21:26*	*11/04/20 21:52*	*1*
2-Fluorophenol	*27*		*26 - 109*	*10/28/20 21:26*	*11/04/20 21:52*	*1*
Nitrobenzene-d5	*31*	*X*	*32 - 118*	*10/28/20 21:26*	*11/04/20 21:52*	*1*
Phenol-d5	*28*		*27 - 110*	*10/28/20 21:26*	*11/04/20 21:52*	*1*
Terphenyl-d14	*43*		*10 - 126*	*10/28/20 21:26*	*11/04/20 21:52*	*1*
2,4,6-Tribromophenol	*44*		*39 - 124*	*10/28/20 21:26*	*11/04/20 21:52*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.87		0.87	0.87	ug/L		11/05/20 19:58	11/07/20 20:25	10
PCB-1221	<0.92		0.92	0.92	ug/L		11/05/20 19:58	11/07/20 20:25	10
PCB-1232	<1.2		1.2	1.2	ug/L		11/05/20 19:58	11/07/20 20:25	10
PCB-1242	<0.92		0.92	0.92	ug/L		11/05/20 19:58	11/07/20 20:25	10
PCB-1248	<1.0		1.0	1.0	ug/L		11/05/20 19:58	11/07/20 20:25	10
PCB-1254	<0.53		0.53	0.53	ug/L		11/05/20 19:58	11/07/20 20:25	10
PCB-1260	<0.58		0.58	0.58	ug/L		11/05/20 19:58	11/07/20 20:25	10
PCB-1268	<1.2		1.2	1.2	ug/L		11/05/20 19:58	11/07/20 20:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*14 - 130*	*11/05/20 19:58*	*11/07/20 20:25*	*10*
Tetrachloro-m-xylene	*0*	*D*	*40 - 130*	*11/05/20 19:58*	*11/07/20 20:25*	*10*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		10/28/20 15:10	10/31/20 01:59	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.16	ug/L		10/28/20 15:10	10/31/20 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*88*		*60 - 154*	*10/28/20 15:10*	*10/31/20 01:59*	*1*
Chlormefos	*41*	*X*	*49 - 171*	*10/28/20 15:10*	*10/31/20 01:59*	*1*

Client Sample ID: MW-16

Date Collected: 10/21/20 17:11
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-3

Matrix: Water

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		10/28/20 11:48	10/29/20 10:07	1

Client Sample ID: MW-20 A

Date Collected: 10/21/20 14:41
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**3.9**		1.0	0.26	ug/L			10/31/20 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/31/20 19:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*		*10/31/20 19:08*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*10/31/20 19:08*	*1*
4-Bromofluorobenzene (Surr)	*110*	**3*	*80 - 120*		*10/31/20 19:08*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		10/28/20 21:26	11/04/20 22:16	1
o,o',o''-Triethylphosphorothioate	**34**		10	0.98	ug/L		10/28/20 21:26	11/04/20 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*28*	*X*	*32 - 113*	*10/28/20 21:26*	*11/04/20 22:16*	*1*
2-Fluorophenol	*26*		*26 - 109*	*10/28/20 21:26*	*11/04/20 22:16*	*1*
Nitrobenzene-d5	*32*		*32 - 118*	*10/28/20 21:26*	*11/04/20 22:16*	*1*
Phenol-d5	*27*		*27 - 110*	*10/28/20 21:26*	*11/04/20 22:16*	*1*
Terphenyl-d14	*30*		*10 - 126*	*10/28/20 21:26*	*11/04/20 22:16*	*1*
2,4,6-Tribromophenol	*36*	*X*	*39 - 124*	*10/28/20 21:26*	*11/04/20 22:16*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		11/05/20 19:58	11/07/20 00:13	1
PCB-1221	<0.50		0.50	0.093	ug/L		11/05/20 19:58	11/07/20 00:13	1
PCB-1232	<0.50		0.50	0.12	ug/L		11/05/20 19:58	11/07/20 00:13	1
PCB-1242	<0.50		0.50	0.093	ug/L		11/05/20 19:58	11/07/20 00:13	1
PCB-1248	<0.50		0.50	0.10	ug/L		11/05/20 19:58	11/07/20 00:13	1
PCB-1254	<0.50		0.50	0.054	ug/L		11/05/20 19:58	11/07/20 00:13	1
PCB-1260	<0.50		0.50	0.058	ug/L		11/05/20 19:58	11/07/20 00:13	1
PCB-1268	<0.50		0.50	0.12	ug/L		11/05/20 19:58	11/07/20 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*18*	*p*	*14 - 130*	*11/05/20 19:58*	*11/07/20 00:13*	*1*
Tetrachloro-m-xylene	*60*	*p*	*40 - 130*	*11/05/20 19:58*	*11/07/20 00:13*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		10/28/20 15:10	10/31/20 21:23	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.16	ug/L		10/28/20 15:10	10/31/20 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*88*		*60 - 154*	*10/28/20 15:10*	*10/31/20 21:23*	*1*
Chlormefos	*62*		*49 - 171*	*10/28/20 15:10*	*10/31/20 21:23*	*1*

Client Sample ID: MW-20 A

Lab Sample ID: 680-190509-4

Date Collected: 10/21/20 14:41
Matrix: Water
Date Received: 10/24/20 09:50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		10/28/20 11:48	10/29/20 10:03	1

Client Sample ID: Duplicate

Lab Sample ID: 680-190509-5

Date Collected: 10/21/20 00:00
Matrix: Water
Date Received: 10/24/20 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**4.0**		1.0	0.26	ug/L			10/31/20 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/31/20 19:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*		*10/31/20 19:28*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*10/31/20 19:28*	*1*
4-Bromofluorobenzene (Surr)	*110*	**3*	*80 - 120*		*10/31/20 19:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		10/28/20 21:26	11/04/20 22:40	1
o,o',o''-Triethylphosphorothioate	**33**		10	0.99	ug/L		10/28/20 21:26	11/04/20 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*27*	*X*	*32 - 113*	*10/28/20 21:26*	*11/04/20 22:40*	*1*
2-Fluorophenol	*24*	*X*	*26 - 109*	*10/28/20 21:26*	*11/04/20 22:40*	*1*
Nitrobenzene-d5	*29*	*X*	*32 - 118*	*10/28/20 21:26*	*11/04/20 22:40*	*1*
Phenol-d5	*25*	*X*	*27 - 110*	*10/28/20 21:26*	*11/04/20 22:40*	*1*
Terphenyl-d14	*28*		*10 - 126*	*10/28/20 21:26*	*11/04/20 22:40*	*1*
2,4,6-Tribromophenol	*37*	*X*	*39 - 124*	*10/28/20 21:26*	*11/04/20 22:40*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		11/05/20 19:58	11/07/20 01:04	1
PCB-1221	<0.50		0.50	0.092	ug/L		11/05/20 19:58	11/07/20 01:04	1
PCB-1232	<0.50		0.50	0.12	ug/L		11/05/20 19:58	11/07/20 01:04	1
PCB-1242	<0.50		0.50	0.092	ug/L		11/05/20 19:58	11/07/20 01:04	1
PCB-1248	<0.50		0.50	0.10	ug/L		11/05/20 19:58	11/07/20 01:04	1
PCB-1254	<0.50		0.50	0.053	ug/L		11/05/20 19:58	11/07/20 01:04	1
PCB-1260	<0.50		0.50	0.058	ug/L		11/05/20 19:58	11/07/20 01:04	1
PCB-1268	<0.50		0.50	0.12	ug/L		11/05/20 19:58	11/07/20 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*19*		*14 - 130*	*11/05/20 19:58*	*11/07/20 01:04*	*1*
Tetrachloro-m-xylene	*75*		*40 - 130*	*11/05/20 19:58*	*11/07/20 01:04*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0	H	1.0	0.14	ug/L		10/28/20 15:10	10/31/20 22:02	1
Tetraethyldithiopyrophosphate	<1.5	H	1.5	0.16	ug/L		10/28/20 15:10	10/31/20 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*86*		*60 - 154*	*10/28/20 15:10*	*10/31/20 22:02*	*1*
Chlormefos	*62*		*49 - 171*	*10/28/20 15:10*	*10/31/20 22:02*	*1*

Client Sample ID: Duplicate

Lab Sample ID: 680-190509-5
Matrix: Water
Date Collected: 10/21/20 00:00
Date Received: 10/24/20 09:50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		10/28/20 11:48	10/29/20 09:59	1

Client Sample ID: Trip Blank 20201023

Lab Sample ID: 680-190509-6
Matrix: Water
Date Collected: 10/23/20 00:00
Date Received: 10/24/20 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			11/03/20 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/03/20 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*73 - 131*		*11/03/20 15:06*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*11/03/20 15:06*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/03/20 15:06*	*1*

Client Sample ID: MW-11A

Lab Sample ID: 680-190509-7
Matrix: Water
Date Collected: 10/22/20 13:34
Date Received: 10/24/20 09:50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		10/28/20 21:26	11/04/20 23:04	1
o,o',o''-Triethylphosphorothioate	<10		10	0.95	ug/L		10/28/20 21:26	11/04/20 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*30*	*X*	*32 - 113*	*10/28/20 21:26*	*11/04/20 23:04*	*1*
2-Fluorophenol	*27*		*26 - 109*	*10/28/20 21:26*	*11/04/20 23:04*	*1*
Nitrobenzene-d5	*31*	*X*	*32 - 118*	*10/28/20 21:26*	*11/04/20 23:04*	*1*
Phenol-d5	*29*		*27 - 110*	*10/28/20 21:26*	*11/04/20 23:04*	*1*
Terphenyl-d14	*50*		*10 - 126*	*10/28/20 21:26*	*11/04/20 23:04*	*1*
2,4,6-Tribromophenol	*34*	*X*	*39 - 124*	*10/28/20 21:26*	*11/04/20 23:04*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		11/05/20 19:58	11/07/20 01:19	1
PCB-1221	<0.50		0.50	0.091	ug/L		11/05/20 19:58	11/07/20 01:19	1
PCB-1232	<0.50		0.50	0.12	ug/L		11/05/20 19:58	11/07/20 01:19	1
PCB-1242	<0.50		0.50	0.091	ug/L		11/05/20 19:58	11/07/20 01:19	1
PCB-1248	<0.50		0.50	0.10	ug/L		11/05/20 19:58	11/07/20 01:19	1
PCB-1254	<0.50		0.50	0.053	ug/L		11/05/20 19:58	11/07/20 01:19	1
PCB-1260	<0.50		0.50	0.057	ug/L		11/05/20 19:58	11/07/20 01:19	1
PCB-1268	<0.50		0.50	0.11	ug/L		11/05/20 19:58	11/07/20 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*14 - 130*	*11/05/20 19:58*	*11/07/20 01:19*	*1*
Tetrachloro-m-xylene	*82*		*40 - 130*	*11/05/20 19:58*	*11/07/20 01:19*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		10/28/20 15:10	10/31/20 22:41	1

Client Sample ID: MW-11A

Date Collected: 10/22/20 13:34
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*94*		*60 - 154*	*10/28/20 15:10*	*10/31/20 22:41*	*1*
Chlormefos	*66*		*49 - 171*	*10/28/20 15:10*	*10/31/20 22:41*	*1*

Client Sample ID: MW-12A

Date Collected: 10/22/20 10:06
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-8
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		10/28/20 21:26	11/04/20 23:27	1
o,o',o''-Triethylphosphorothioate	<10		10	0.98	ug/L		10/28/20 21:26	11/04/20 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*34*		*32 - 113*	*10/28/20 21:26*	*11/04/20 23:27*	*1*
2-Fluorophenol	*30*		*26 - 109*	*10/28/20 21:26*	*11/04/20 23:27*	*1*
Nitrobenzene-d5	*34*		*32 - 118*	*10/28/20 21:26*	*11/04/20 23:27*	*1*
Phenol-d5	*32*		*27 - 110*	*10/28/20 21:26*	*11/04/20 23:27*	*1*
Terphenyl-d14	*50*		*10 - 126*	*10/28/20 21:26*	*11/04/20 23:27*	*1*
2,4,6-Tribromophenol	*39*		*39 - 124*	*10/28/20 21:26*	*11/04/20 23:27*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		11/05/20 19:58	11/07/20 00:49	1
PCB-1221	<0.50		0.50	0.095	ug/L		11/05/20 19:58	11/07/20 00:49	1
PCB-1232	<0.50		0.50	0.12	ug/L		11/05/20 19:58	11/07/20 00:49	1
PCB-1242	<0.50		0.50	0.095	ug/L		11/05/20 19:58	11/07/20 00:49	1
PCB-1248	<0.50		0.50	0.10	ug/L		11/05/20 19:58	11/07/20 00:49	1
PCB-1254	<0.50		0.50	0.055	ug/L		11/05/20 19:58	11/07/20 00:49	1
PCB-1260	<0.50		0.50	0.060	ug/L		11/05/20 19:58	11/07/20 00:49	1
PCB-1268	<0.50		0.50	0.12	ug/L		11/05/20 19:58	11/07/20 00:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*103*		*14 - 130*	*11/05/20 19:58*	*11/07/20 00:49*	*1*
Tetrachloro-m-xylene	*74*		*40 - 130*	*11/05/20 19:58*	*11/07/20 00:49*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		10/28/20 15:10	10/31/20 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*82*		*60 - 154*	*10/28/20 15:10*	*10/31/20 23:20*	*1*
Chlormefos	*58*		*49 - 171*	*10/28/20 15:10*	*10/31/20 23:20*	*1*

Client Sample ID: MW-13A

Date Collected: 10/22/20 07:42
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-9
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		10/28/20 21:26	11/04/20 23:51	1
o,o',o''-Triethylphosphorothioate	<10		10	0.96	ug/L		10/28/20 21:26	11/04/20 23:51	1

Client Sample ID: MW-13A
Date Collected: 10/22/20 07:42
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*40*		*32 - 113*	*10/28/20 21:26*	*11/04/20 23:51*	*1*
2-Fluorophenol	*37*		*26 - 109*	*10/28/20 21:26*	*11/04/20 23:51*	*1*
Nitrobenzene-d5	*38*		*32 - 118*	*10/28/20 21:26*	*11/04/20 23:51*	*1*
Phenol-d5	*41*		*27 - 110*	*10/28/20 21:26*	*11/04/20 23:51*	*1*
Terphenyl-d14	*57*		*10 - 126*	*10/28/20 21:26*	*11/04/20 23:51*	*1*
2,4,6-Tribromophenol	*53*		*39 - 124*	*10/28/20 21:26*	*11/04/20 23:51*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		11/05/20 19:58	11/07/20 01:05	1
PCB-1221	<0.50		0.50	0.093	ug/L		11/05/20 19:58	11/07/20 01:05	1
PCB-1232	<0.50		0.50	0.12	ug/L		11/05/20 19:58	11/07/20 01:05	1
PCB-1242	<0.50		0.50	0.093	ug/L		11/05/20 19:58	11/07/20 01:05	1
PCB-1248	<0.50		0.50	0.10	ug/L		11/05/20 19:58	11/07/20 01:05	1
PCB-1254	<0.50		0.50	0.054	ug/L		11/05/20 19:58	11/07/20 01:05	1
PCB-1260	<0.50		0.50	0.059	ug/L		11/05/20 19:58	11/07/20 01:05	1
PCB-1268	<0.50		0.50	0.12	ug/L		11/05/20 19:58	11/07/20 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*112*		*14 - 130*	*11/05/20 19:58*	*11/07/20 01:05*	*1*
Tetrachloro-m-xylene	*76*		*40 - 130*	*11/05/20 19:58*	*11/07/20 01:05*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		10/28/20 15:10	10/31/20 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*83*		*60 - 154*	*10/28/20 15:10*	*10/31/20 23:59*	*1*
Chlormefos	*56*		*49 - 171*	*10/28/20 15:10*	*10/31/20 23:59*	*1*

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-190509-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	DBFM	BFB
Lab Sample ID	Client Sample ID	(80-120)	(73-131)	(80-122)	(80-120)
680-190509-1	MW-01 B	91	91	91	97
680-190509-2	MW-15	101	85	95	96
680-190509-2	MW-15	97	101	101	115
680-190509-2 MS	MW-15	107	88	102	97
680-190509-2 MS	MW-15	99	98	100	102
680-190509-2 MSD	MW-15	108	87	102	99
680-190509-2 MSD	MW-15	101	96	101	100
680-190509-3	MW-16	95	97	99	110 *3
680-190509-4	MW-20 A	93	95	97	110 *3
680-190509-5	Duplicate	93	95	95	110 *3
680-190509-6	Trip Blank 20201023	100	85	95	95
LCS 680-641736/4	Lab Control Sample	99	97	101	99
LCS 680-641850/3	Lab Control Sample	94	97	95	94
LCS 680-641997/3	Lab Control Sample	101	90	99	95
LCS 680-642027/4	Lab Control Sample	101	102	105	95
LCSD 680-641736/5	Lab Control Sample Dup	100	99	101	103
LCSD 680-641850/4	Lab Control Sample Dup	94	93	94	94
LCSD 680-641997/4	Lab Control Sample Dup	100	89	97	94
LCSD 680-642027/5	Lab Control Sample Dup	101	103	104	100
MB 680-641736/10	Method Blank	98	95	97	115
MB 680-641850/8	Method Blank	89	85	86	94
MB 680-641997/8	Method Blank	101	87	95	94
MB 680-642027/9	Method Blank	97	96	99	114

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(32-113)	(26-109)	(32-118)	(27-110)	(10-126)	(39-124)
680-190509-1	MW-01 B	28 X	27	30 X	28	39 *3	31 X
680-190509-2	MW-15	34	31	35	33	49	39
680-190509-2 MS	MW-15	48	42	52	46	55	57
680-190509-2 MS	MW-15	30 X	30	32	32	58	47
680-190509-2 MSD	MW-15	40	39	44	39	57	53
680-190509-2 MSD	MW-15	37	35	39	38	50	49
680-190509-3	MW-16	28 X	27	31 X	28	43	44
680-190509-4	MW-20 A	28 X	26	32	27	30	36 X
680-190509-5	Duplicate	27 X	24 X	29 X	25 X	28	37 X
680-190509-7	MW-11A	30 X	27	31 X	29	50	34 X
680-190509-8	MW-12A	34	30	34	32	50	39
680-190509-9	MW-13A	40	37	38	41	57	53
LCS 680-641252/10-A	Lab Control Sample	37	41	42	44	57	52
LCS 680-641252/13-A	Lab Control Sample	43	40	47	41	49	50

Surrogate Summary

Client: GSI Environmental, Inc
Job ID: 680-190509-1
Project/Site: Anniston RCRA April 2020

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(32-113)	(26-109)	(32-118)	(27-110)	(10-126)	(39-124)
MB 680-641252/9-A	Method Blank	43	41	45	42	55	50

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-190509-1	MW-01 B	70	99
680-190509-2	MW-15	75	70
680-190509-2 MS	MW-15	72	69
680-190509-2 MSD	MW-15	72	79
680-190509-5	Duplicate	19	75
LCS 680-642598/26-A	Lab Control Sample	73	57
MB 680-642598/22-A	Method Blank	59	80

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-190509-3	MW-16	0 D	0 D
680-190509-4	MW-20 A	18 p	60 p
680-190509-7	MW-11A	71	82
680-190509-8	MW-12A	103	74
680-190509-9	MW-13A	112	76
LCS 680-642598/26-A	Lab Control Sample	85	56
MB 680-642598/22-A	Method Blank	67	74

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: GSI Environmental, Inc
Job ID: 680-190509-1
Project/Site: Anniston RCRA April 2020

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TPP1 (60-154)	CMF1 (49-171)
680-190509-1	MW-01 B	93	62
680-190509-2	MW-15	88	65
680-190509-2 MS	MW-15	83	64
680-190509-3	MW-16	88	41 X
680-190509-4	MW-20 A	88	62
680-190509-5	Duplicate	86	62
680-190509-7	MW-11A	94	66
680-190509-8	MW-12A	82	58
680-190509-9	MW-13A	83	56
LCS 280-514445/2-A	Lab Control Sample	88	62
LCSD 280-514445/3-A	Lab Control Sample Dup	98	75
MB 280-514445/1-A	Method Blank	90	68

Surrogate Legend

TPP = Triphenylphosphate
CMF = Chlormefos

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-641736/10
Matrix: Water
Analysis Batch: 641736

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			10/31/20 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/31/20 14:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*		*10/31/20 14:39*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*10/31/20 14:39*	*1*
4-Bromofluorobenzene (Surr)	*115*		*80 - 120*		*10/31/20 14:39*	*1*

Lab Sample ID: LCS 680-641736/4
Matrix: Water
Analysis Batch: 641736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorobenzene			50.0	50.0		ug/L		100	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 680-641736/5
Matrix: Water
Analysis Batch: 641736

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	49.5		ug/L		99	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 680-641850/8
Matrix: Water
Analysis Batch: 641850

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			11/02/20 14:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*11/02/20 14:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*73 - 131*		*11/02/20 14:06*	*1*
Dibromofluoromethane (Surr)	*86*		*80 - 122*		*11/02/20 14:06*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*11/02/20 14:06*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-641850/3
Matrix: Water
Analysis Batch: 641850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorobenzene			50.0	47.8		ug/L		96	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*
Dibromofluoromethane (Surr)	*95*		*80 - 122*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*

Lab Sample ID: LCSD 680-641850/4
Matrix: Water
Analysis Batch: 641850

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	47.8		ug/L		96	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*
Dibromofluoromethane (Surr)	*94*		*80 - 122*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*

Lab Sample ID: MB 680-641997/8
Matrix: Water
Analysis Batch: 641997

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			11/03/20 14:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/03/20 14:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*73 - 131*		*11/03/20 14:14*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*11/03/20 14:14*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*11/03/20 14:14*	*1*

Lab Sample ID: LCS 680-641997/3
Matrix: Water
Analysis Batch: 641997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorobenzene			50.0	53.8		ug/L		108	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 131*
Dibromofluoromethane (Surr)	*99*		*80 - 122*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-641997/4
Matrix: Water
Analysis Batch: 641997

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	53.8		ug/L		108	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*
Dibromofluoromethane (Surr)	*97*		*80 - 122*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*

Lab Sample ID: 680-190509-2 MS
Matrix: Water
Analysis Batch: 641997

Client Sample ID: MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorobenzene	<1.0		50.0	56.0		ug/L		112	80 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*88*		*73 - 131*
Dibromofluoromethane (Surr)	*102*		*80 - 122*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

Lab Sample ID: 680-190509-2 MSD
Matrix: Water
Analysis Batch: 641997

Client Sample ID: MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	<1.0		50.0	57.1		ug/L		114	80 - 120	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*87*		*73 - 131*
Dibromofluoromethane (Surr)	*102*		*80 - 122*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 680-642027/9
Matrix: Water
Analysis Batch: 642027

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.26	ug/L			11/03/20 14:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/03/20 14:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*11/03/20 14:22*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 122*		*11/03/20 14:22*	*1*
4-Bromofluorobenzene (Surr)	*114*		*80 - 120*		*11/03/20 14:22*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-642027/4
Matrix: Water
Analysis Batch: 642027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorobenzene			50.0	48.8		ug/L		98	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*
Dibromofluoromethane (Surr)	*105*		*80 - 122*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 680-642027/5
Matrix: Water
Analysis Batch: 642027

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	48.6		ug/L		97	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*
Dibromofluoromethane (Surr)	*104*		*80 - 122*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: 680-190509-2 MS
Matrix: Water
Analysis Batch: 642027

Client Sample ID: MW-15
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*
Dibromofluoromethane (Surr)	*100*		*80 - 122*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: 680-190509-2 MSD
Matrix: Water
Analysis Batch: 642027

Client Sample ID: MW-15
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-641252/9-A
Matrix: Water
Analysis Batch: 642324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 641252

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		10/28/20 21:26	11/04/20 17:07	1
o,o',o''-Triethylphosphorothioate	<10		10	1.0	ug/L		10/28/20 21:26	11/04/20 17:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*43*		*32 - 113*	*10/28/20 21:26*	*11/04/20 17:07*	*1*
2-Fluorophenol	*41*		*26 - 109*	*10/28/20 21:26*	*11/04/20 17:07*	*1*
Nitrobenzene-d5	*45*		*32 - 118*	*10/28/20 21:26*	*11/04/20 17:07*	*1*
Phenol-d5	*42*		*27 - 110*	*10/28/20 21:26*	*11/04/20 17:07*	*1*
Terphenyl-d14	*55*		*10 - 126*	*10/28/20 21:26*	*11/04/20 17:07*	*1*
2,4,6-Tribromophenol	*50*		*39 - 124*	*10/28/20 21:26*	*11/04/20 17:07*	*1*

Lab Sample ID: LCS 680-641252/10-A
Matrix: Water
Analysis Batch: 642324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 641252

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
4-Nitrophenol			200	121		ug/L		61	44 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*37*		*32 - 113*
2-Fluorophenol	*41*		*26 - 109*
Nitrobenzene-d5	*42*		*32 - 118*
Phenol-d5	*44*		*27 - 110*
Terphenyl-d14	*57*		*10 - 126*
2,4,6-Tribromophenol	*52*		*39 - 124*

Lab Sample ID: LCS 680-641252/13-A
Matrix: Water
Analysis Batch: 642324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 641252

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
o,o',o''-Triethylphosphorothioate			100	59.7		ug/L		60	23 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*43*		*32 - 113*
2-Fluorophenol	*40*		*26 - 109*
Nitrobenzene-d5	*47*		*32 - 118*
Phenol-d5	*41*		*27 - 110*
Terphenyl-d14	*49*		*10 - 126*
2,4,6-Tribromophenol	*50*		*39 - 124*

Lab Sample ID: 680-190509-2 MS
Matrix: Water
Analysis Batch: 642324

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 641252

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
4-Nitrophenol	<25		194	117		ug/L		60	44 - 130		

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-190509-2 MS
Matrix: Water
Analysis Batch: 642324

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 641252

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	30	X	32 - 113
2-Fluorophenol	30		26 - 109
Nitrobenzene-d5	32		32 - 118
Phenol-d5	32		27 - 110
Terphenyl-d14	58		10 - 126
2,4,6-Tribromophenol	47		39 - 124

Lab Sample ID: 680-190509-2 MS
Matrix: Water
Analysis Batch: 642324

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 641252

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o,o',o''-Triethylphosphorothioate	<10		98.9	74.0		ug/L		75	23 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	48		32 - 113
2-Fluorophenol	42		26 - 109
Nitrobenzene-d5	52		32 - 118
Phenol-d5	46		27 - 110
Terphenyl-d14	55		10 - 126
2,4,6-Tribromophenol	57		39 - 124

Lab Sample ID: 680-190509-2 MSD
Matrix: Water
Analysis Batch: 642324

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 641252

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Nitrophenol	<25		198	120		ug/L		61	44 - 130	3	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	40		32 - 113
2-Fluorophenol	39		26 - 109
Nitrobenzene-d5	44		32 - 118
Phenol-d5	39		27 - 110
Terphenyl-d14	57		10 - 126
2,4,6-Tribromophenol	53		39 - 124

Lab Sample ID: 680-190509-2 MSD
Matrix: Water
Analysis Batch: 642324

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 641252

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o,o',o''-Triethylphosphorothioate	<10		97.7	53.1		ug/L		54	23 - 130	33	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	37		32 - 113
2-Fluorophenol	35		26 - 109

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-190509-2 MSD
Matrix: Water
Analysis Batch: 642324

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 641252

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5	*39*		*32 - 118*
Phenol-d5	*38*		*27 - 110*
Terphenyl-d14	*50*		*10 - 126*
2,4,6-Tribromophenol	*49*		*39 - 124*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-642598/22-A
Matrix: Water
Analysis Batch: 642794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 642598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		11/05/20 19:58	11/06/20 20:38	1
PCB-1221	<0.50		0.50	0.095	ug/L		11/05/20 19:58	11/06/20 20:38	1
PCB-1232	<0.50		0.50	0.13	ug/L		11/05/20 19:58	11/06/20 20:38	1
PCB-1242	<0.50		0.50	0.095	ug/L		11/05/20 19:58	11/06/20 20:38	1
PCB-1248	<0.50		0.50	0.11	ug/L		11/05/20 19:58	11/06/20 20:38	1
PCB-1254	<0.50		0.50	0.055	ug/L		11/05/20 19:58	11/06/20 20:38	1
PCB-1260	<0.50		0.50	0.060	ug/L		11/05/20 19:58	11/06/20 20:38	1
PCB-1268	<0.50		0.50	0.12	ug/L		11/05/20 19:58	11/06/20 20:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*14 - 130*	*11/05/20 19:58*	*11/06/20 20:38*	*1*
Tetrachloro-m-xylene	*80*		*40 - 130*	*11/05/20 19:58*	*11/06/20 20:38*	*1*

Lab Sample ID: MB 680-642598/22-A
Matrix: Water
Analysis Batch: 642808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 642598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		11/05/20 19:58	11/06/20 21:20	1
PCB-1221	<0.50		0.50	0.095	ug/L		11/05/20 19:58	11/06/20 21:20	1
PCB-1232	<0.50		0.50	0.13	ug/L		11/05/20 19:58	11/06/20 21:20	1
PCB-1242	<0.50		0.50	0.095	ug/L		11/05/20 19:58	11/06/20 21:20	1
PCB-1248	<0.50		0.50	0.11	ug/L		11/05/20 19:58	11/06/20 21:20	1
PCB-1254	<0.50		0.50	0.055	ug/L		11/05/20 19:58	11/06/20 21:20	1
PCB-1260	<0.50		0.50	0.060	ug/L		11/05/20 19:58	11/06/20 21:20	1
PCB-1268	<0.50		0.50	0.12	ug/L		11/05/20 19:58	11/06/20 21:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*14 - 130*	*11/05/20 19:58*	*11/06/20 21:20*	*1*
Tetrachloro-m-xylene	*74*		*40 - 130*	*11/05/20 19:58*	*11/06/20 21:20*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-642598/26-A
Matrix: Water
Analysis Batch: 642794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642598

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			3.00	1.70		ug/L		57	44 - 130		
PCB-1260			3.00	2.43		ug/L		81	35 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*73*		*14 - 130*
Tetrachloro-m-xylene	*57*		*40 - 130*

Lab Sample ID: LCS 680-642598/26-A
Matrix: Water
Analysis Batch: 642808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642598

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			3.00	1.69		ug/L		56	44 - 130		
PCB-1260			3.00	2.71		ug/L		90	35 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*85*		*14 - 130*
Tetrachloro-m-xylene	*56*		*40 - 130*

Lab Sample ID: 680-190509-2 MS
Matrix: Water
Analysis Batch: 642794

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 642598

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	<0.50		2.88	2.51		ug/L		87	44 - 130		
PCB-1260	<0.50		2.88	2.38		ug/L		83	35 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*72*		*14 - 130*
Tetrachloro-m-xylene	*69*		*40 - 130*

Lab Sample ID: 680-190509-2 MSD
Matrix: Water
Analysis Batch: 642794

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 642598

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<0.50		2.97	2.69		ug/L		91	44 - 130	7	50
PCB-1260	<0.50		2.97	2.46		ug/L		83	35 - 130	4	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*72*		*14 - 130*
Tetrachloro-m-xylene	*79*		*40 - 130*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-514445/1-A
Matrix: Water
Analysis Batch: 514874

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 514445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		10/28/20 15:10	10/30/20 20:07	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.17	ug/L		10/28/20 15:10	10/30/20 20:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*90*		*60 - 154*	*10/28/20 15:10*	*10/30/20 20:07*	*1*
Chlormefos	*68*		*49 - 171*	*10/28/20 15:10*	*10/30/20 20:07*	*1*

Lab Sample ID: LCS 280-514445/2-A
Matrix: Water
Analysis Batch: 514874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 514445

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Parathion			4.00	2.95		ug/L		74	55 - 107		
Tetraethyldithiopyrophosphate			4.00	2.86		ug/L		71	53 - 110		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*88*		*60 - 154*
Chlormefos	*62*		*49 - 171*

Lab Sample ID: LCSD 280-514445/3-A
Matrix: Water
Analysis Batch: 514874

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 514445

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Parathion			4.00	3.28		ug/L		82	55 - 107	10	20
Tetraethyldithiopyrophosphate			4.00	3.27		ug/L		82	53 - 110	14	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate	*98*		*60 - 154*
Chlormefos	*75*		*49 - 171*

Lab Sample ID: 680-190509-2 MS
Matrix: Water
Analysis Batch: 514874

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 514445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Parathion	<1.0		3.83	2.77		ug/L		72	55 - 107		
Tetraethyldithiopyrophosphate	<1.5		3.83	2.77		ug/L		72	53 - 110		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate	*83*		*60 - 154*
Chlormefos	*64*		*49 - 171*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-641144/1-A
Matrix: Water
Analysis Batch: 641443

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 641144

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0010	mg/L		10/28/20 11:48	10/29/20 09:22	1

Lab Sample ID: LCS 680-641144/2-A
Matrix: Water
Analysis Batch: 641443

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 641144

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.0500	0.0514		mg/L		103	80 - 120

Lab Sample ID: 680-190509-2 MS
Matrix: Water
Analysis Batch: 641443

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 641144

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	<0.010		0.0500	0.0496		mg/L		99	75 - 125

Lab Sample ID: 680-190509-2 MSD
Matrix: Water
Analysis Batch: 641443

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 641144

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	<0.010		0.0500	0.0513		mg/L		103	75 - 125	3	20

GC/MS VOA

Analysis Batch: 641736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-3	MW-16	Total/NA	Water	8260B	
680-190509-4	MW-20 A	Total/NA	Water	8260B	
680-190509-5	Duplicate	Total/NA	Water	8260B	
MB 680-641736/10	Method Blank	Total/NA	Water	8260B	
LCS 680-641736/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-641736/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 641850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-1	MW-01 B	Total/NA	Water	8260B	
MB 680-641850/8	Method Blank	Total/NA	Water	8260B	
LCS 680-641850/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-641850/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 641997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-2	MW-15	Total/NA	Water	8260B	
680-190509-6	Trip Blank 20201023	Total/NA	Water	8260B	
MB 680-641997/8	Method Blank	Total/NA	Water	8260B	
LCS 680-641997/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-641997/4	Lab Control Sample Dup	Total/NA	Water	8260B	
680-190509-2 MS	MW-15	Total/NA	Water	8260B	
680-190509-2 MSD	MW-15	Total/NA	Water	8260B	

Analysis Batch: 642027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-2	MW-15	Total/NA	Water	8260B	
MB 680-642027/9	Method Blank	Total/NA	Water	8260B	
LCS 680-642027/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-642027/5	Lab Control Sample Dup	Total/NA	Water	8260B	
680-190509-2 MS	MW-15	Total/NA	Water	8260B	
680-190509-2 MSD	MW-15	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 641252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-1	MW-01 B	Total/NA	Water	3520C	
680-190509-2	MW-15	Total/NA	Water	3520C	
680-190509-3	MW-16	Total/NA	Water	3520C	
680-190509-4	MW-20 A	Total/NA	Water	3520C	
680-190509-5	Duplicate	Total/NA	Water	3520C	
680-190509-7	MW-11A	Total/NA	Water	3520C	
680-190509-8	MW-12A	Total/NA	Water	3520C	
680-190509-9	MW-13A	Total/NA	Water	3520C	
MB 680-641252/9-A	Method Blank	Total/NA	Water	3520C	
LCS 680-641252/10-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-641252/13-A	Lab Control Sample	Total/NA	Water	3520C	
680-190509-2 MS	MW-15	Total/NA	Water	3520C	
680-190509-2 MS	MW-15	Total/NA	Water	3520C	
680-190509-2 MSD	MW-15	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 641252 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-2 MSD	MW-15	Total/NA	Water	3520C	

Analysis Batch: 642324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-1	MW-01 B	Total/NA	Water	8270D	641252
680-190509-2	MW-15	Total/NA	Water	8270D	641252
680-190509-3	MW-16	Total/NA	Water	8270D	641252
680-190509-4	MW-20 A	Total/NA	Water	8270D	641252
680-190509-5	Duplicate	Total/NA	Water	8270D	641252
680-190509-7	MW-11A	Total/NA	Water	8270D	641252
680-190509-8	MW-12A	Total/NA	Water	8270D	641252
680-190509-9	MW-13A	Total/NA	Water	8270D	641252
MB 680-641252/9-A	Method Blank	Total/NA	Water	8270D	641252
LCS 680-641252/10-A	Lab Control Sample	Total/NA	Water	8270D	641252
LCS 680-641252/13-A	Lab Control Sample	Total/NA	Water	8270D	641252
680-190509-2 MS	MW-15	Total/NA	Water	8270D	641252
680-190509-2 MS	MW-15	Total/NA	Water	8270D	641252
680-190509-2 MSD	MW-15	Total/NA	Water	8270D	641252
680-190509-2 MSD	MW-15	Total/NA	Water	8270D	641252

GC Semi VOA

Prep Batch: 514445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-1	MW-01 B	Total/NA	Water	3510C	
680-190509-2	MW-15	Total/NA	Water	3510C	
680-190509-3	MW-16	Total/NA	Water	3510C	
680-190509-4	MW-20 A	Total/NA	Water	3510C	
680-190509-5	Duplicate	Total/NA	Water	3510C	
680-190509-7	MW-11A	Total/NA	Water	3510C	
680-190509-8	MW-12A	Total/NA	Water	3510C	
680-190509-9	MW-13A	Total/NA	Water	3510C	
MB 280-514445/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-514445/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-514445/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
680-190509-2 MS	MW-15	Total/NA	Water	3510C	

Analysis Batch: 514874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-1	MW-01 B	Total/NA	Water	8141B	514445
680-190509-2	MW-15	Total/NA	Water	8141B	514445
680-190509-3	MW-16	Total/NA	Water	8141B	514445
MB 280-514445/1-A	Method Blank	Total/NA	Water	8141B	514445
LCS 280-514445/2-A	Lab Control Sample	Total/NA	Water	8141B	514445
LCSD 280-514445/3-A	Lab Control Sample Dup	Total/NA	Water	8141B	514445
680-190509-2 MS	MW-15	Total/NA	Water	8141B	514445

Analysis Batch: 514956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-4	MW-20 A	Total/NA	Water	8141B	514445
680-190509-5	Duplicate	Total/NA	Water	8141B	514445

GC Semi VOA (Continued)

Analysis Batch: 514956 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-7	MW-11A	Total/NA	Water	8141B	514445
680-190509-8	MW-12A	Total/NA	Water	8141B	514445
680-190509-9	MW-13A	Total/NA	Water	8141B	514445

Prep Batch: 642598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-1	MW-01 B	Total/NA	Water	3520C	
680-190509-2	MW-15	Total/NA	Water	3520C	
680-190509-3	MW-16	Total/NA	Water	3520C	
680-190509-4	MW-20 A	Total/NA	Water	3520C	
680-190509-5	Duplicate	Total/NA	Water	3520C	
680-190509-7	MW-11A	Total/NA	Water	3520C	
680-190509-8	MW-12A	Total/NA	Water	3520C	
680-190509-9	MW-13A	Total/NA	Water	3520C	
MB 680-642598/22-A	Method Blank	Total/NA	Water	3520C	
LCS 680-642598/26-A	Lab Control Sample	Total/NA	Water	3520C	
680-190509-2 MS	MW-15	Total/NA	Water	3520C	
680-190509-2 MSD	MW-15	Total/NA	Water	3520C	

Analysis Batch: 642794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-1	MW-01 B	Total/NA	Water	8081B/8082A	642598
680-190509-2	MW-15	Total/NA	Water	8081B/8082A	642598
680-190509-4	MW-20 A	Total/NA	Water	8081B/8082A	642598
MB 680-642598/22-A	Method Blank	Total/NA	Water	8081B/8082A	642598
LCS 680-642598/26-A	Lab Control Sample	Total/NA	Water	8081B/8082A	642598
680-190509-2 MS	MW-15	Total/NA	Water	8081B/8082A	642598
680-190509-2 MSD	MW-15	Total/NA	Water	8081B/8082A	642598

Analysis Batch: 642804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-8	MW-12A	Total/NA	Water	8081B/8082A	642598
680-190509-9	MW-13A	Total/NA	Water	8081B/8082A	642598

Analysis Batch: 642808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-5	Duplicate	Total/NA	Water	8081B/8082A	642598
680-190509-7	MW-11A	Total/NA	Water	8081B/8082A	642598
MB 680-642598/22-A	Method Blank	Total/NA	Water	8081B/8082A	642598
LCS 680-642598/26-A	Lab Control Sample	Total/NA	Water	8081B/8082A	642598

Analysis Batch: 642912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-3	MW-16	Total/NA	Water	8081B/8082A	642598

Metals

Prep Batch: 641144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-1	MW-01 B	Total Recoverable	Water	3005A	
680-190509-2	MW-15	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 641144 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-3	MW-16	Total Recoverable	Water	3005A	
680-190509-4	MW-20 A	Total Recoverable	Water	3005A	
680-190509-5	Duplicate	Total Recoverable	Water	3005A	
MB 680-641144/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-641144/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-190509-2 MS	MW-15	Total Recoverable	Water	3005A	
680-190509-2 MSD	MW-15	Total Recoverable	Water	3005A	

Analysis Batch: 641443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-190509-1	MW-01 B	Total Recoverable	Water	6010C	641144
680-190509-2	MW-15	Total Recoverable	Water	6010C	641144
680-190509-3	MW-16	Total Recoverable	Water	6010C	641144
680-190509-4	MW-20 A	Total Recoverable	Water	6010C	641144
680-190509-5	Duplicate	Total Recoverable	Water	6010C	641144
MB 680-641144/1-A	Method Blank	Total Recoverable	Water	6010C	641144
LCS 680-641144/2-A	Lab Control Sample	Total Recoverable	Water	6010C	641144
680-190509-2 MS	MW-15	Total Recoverable	Water	6010C	641144
680-190509-2 MSD	MW-15	Total Recoverable	Water	6010C	641144

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-190509-1

Client Sample ID: MW-01 B

Date Collected: 10/21/20 11:45
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	641850	11/02/20 15:31	SMP	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	3520C			1029.6 mL	1 mL	641252	10/28/20 21:26	EHS	TAL SAV
Total/NA	Analysis	8270D		1			642324	11/04/20 21:05	T1C	TAL SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1018.4 mL	5 mL	642598	11/05/20 19:58	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			642794	11/06/20 23:30	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1030.2 mL	2 mL	514445	10/28/20 15:10	DB	TAL DEN
Total/NA	Analysis	8141B		1			514874	10/31/20 00:02	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	641144	10/28/20 11:48	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			641443	10/29/20 10:11	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: MW-15

Date Collected: 10/22/20 15:49
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	641997	11/03/20 18:09	P1C	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260B		1	5 mL	5 mL	642027	11/03/20 21:06	Y1S	TAL SAV
	Instrument ID: CMSU									
Total/NA	Prep	3520C			1046.6 mL	1 mL	641252	10/28/20 21:26	EHS	TAL SAV
Total/NA	Analysis	8270D		1			642324	11/04/20 21:28	T1C	TAL SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1038 mL	5 mL	642598	11/05/20 19:58	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			642794	11/06/20 23:44	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1046.2 mL	2 mL	514445	10/28/20 15:10	DB	TAL DEN
Total/NA	Analysis	8141B		1			514874	10/31/20 00:41	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	641144	10/28/20 11:48	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			641443	10/29/20 09:30	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: MW-16

Date Collected: 10/21/20 17:11
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	641736	10/31/20 18:48	Y1S	TAL SAV
	Instrument ID: CMSU									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-190509-1

Client Sample ID: MW-16

Date Collected: 10/21/20 17:11
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1040.5 mL	1 mL	641252	10/28/20 21:26	EHS	TAL SAV
Total/NA	Analysis	8270D		1			642324	11/04/20 21:52	T1C	TAL SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1031.6 mL	5 mL	642598	11/05/20 19:58	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		10			642912	11/07/20 20:25	UI	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1048.6 mL	2 mL	514445	10/28/20 15:10	DB	TAL DEN
Total/NA	Analysis	8141B		1			514874	10/31/20 01:59	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	641144	10/28/20 11:48	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			641443	10/29/20 10:07	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: MW-20 A

Date Collected: 10/21/20 14:41
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	641736	10/31/20 19:08	Y1S	TAL SAV
	Instrument ID: CMSU									
Total/NA	Prep	3520C			1018.2 mL	1 mL	641252	10/28/20 21:26	EHS	TAL SAV
Total/NA	Analysis	8270D		1			642324	11/04/20 22:16	T1C	TAL SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1026.5 mL	5 mL	642598	11/05/20 19:58	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			642794	11/07/20 00:13	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1053.3 mL	2 mL	514445	10/28/20 15:10	DB	TAL DEN
Total/NA	Analysis	8141B		1			514956	10/31/20 21:23	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	641144	10/28/20 11:48	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			641443	10/29/20 10:03	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: Duplicate

Date Collected: 10/21/20 00:00
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	641736	10/31/20 19:28	Y1S	TAL SAV
	Instrument ID: CMSU									
Total/NA	Prep	3520C			1011.4 mL	1 mL	641252	10/28/20 21:26	EHS	TAL SAV
Total/NA	Analysis	8270D		1			642324	11/04/20 22:40	T1C	TAL SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1036.9 mL	5 mL	642598	11/05/20 19:58	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			642808	11/07/20 01:04	JCK	TAL SAV
	Instrument ID: CSGZ									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-190509-1

Client Sample ID: Duplicate
Date Collected: 10/21/20 00:00
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1038.8 mL	2 mL	514445	10/28/20 15:10	DB	TAL DEN
Total/NA	Analysis	8141B		1			514956	10/31/20 22:02	TMC	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	641144	10/28/20 11:48	AJR	TAL SAV
Total Recoverable	Analysis	6010C		1			641443	10/29/20 09:59	BCB	TAL SAV
	Instrument ID: ICPE									

Client Sample ID: Trip Blank 20201023
Date Collected: 10/23/20 00:00
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	641997	11/03/20 15:06	P1C	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: MW-11A
Date Collected: 10/22/20 13:34
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1047.5 mL	1 mL	641252	10/28/20 21:26	EHS	TAL SAV
Total/NA	Analysis	8270D		1			642324	11/04/20 23:04	T1C	TAL SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1044.6 mL	5 mL	642598	11/05/20 19:58	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			642808	11/07/20 01:19	JCK	TAL SAV
	Instrument ID: CSGZ									
Total/NA	Prep	3510C			1030.8 mL	2 mL	514445	10/28/20 15:10	DB	TAL DEN
Total/NA	Analysis	8141B		1			514956	10/31/20 22:41	TMC	TAL DEN
	Instrument ID: SGC_D2									

Client Sample ID: MW-12A
Date Collected: 10/22/20 10:06
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1023.7 mL	1 mL	641252	10/28/20 21:26	EHS	TAL SAV
Total/NA	Analysis	8270D		1			642324	11/04/20 23:27	T1C	TAL SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1003.1 mL	5 mL	642598	11/05/20 19:58	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			642804	11/07/20 00:49	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1048.3 mL	2 mL	514445	10/28/20 15:10	DB	TAL DEN
Total/NA	Analysis	8141B		1			514956	10/31/20 23:20	TMC	TAL DEN
	Instrument ID: SGC_D2									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-190509-1

Client Sample ID: MW-13A

Date Collected: 10/22/20 07:42
Date Received: 10/24/20 09:50

Lab Sample ID: 680-190509-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1038.9 mL	1 mL	641252	10/28/20 21:26	EHS	TAL SAV
Total/NA	Analysis	8270D		1			642324	11/04/20 23:51	T1C	TAL SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1022 mL	5 mL	642598	11/05/20 19:58	EHS	TAL SAV
Total/NA	Analysis	8081B/8082A		1			642804	11/07/20 01:05	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1040.3 mL	2 mL	514445	10/28/20 15:10	DB	TAL DEN
Total/NA	Analysis	8141B		1			514956	10/31/20 23:59	TMC	TAL DEN
	Instrument ID: SGC_D2									

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Job ID: 680-190509-1
Project/Site: Anniston RCRA April 2020

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-21

Laboratory: Eurofins TestAmerica, Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20 *
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	07-31-21
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	09-01-21
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-21
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-20-18	09-30-21
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-21
Wyoming (UST)	A2LA	2907.01	10-31-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2020

Job ID: 680-190509-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	TAL DEN
6010C	Metals (ICP)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: STR, JA	Lab PM: Weinberg, Amy	Carrier Tracking No(s):	COC No: 680-118758-45300.1
Client Contact: Mr. Jerry Hopper	Phone: 713-522-6300	E-Mail: amy.weinberg@Eurofinset.com		Page: Page 1 of 6
Company: Solutia Inc				Job #:
Address: 702 Clydesdale Ave.	Due Date Requested:			
City: Anniston	TAT Requested (days): 21 calendar days from receipt			
State, Zip: AL, 36201-5328				
Phone: 713-522-6300(Tel)	PO #: 45008622			
Email: johopp@eastman.com	WO #:			
Project Name: Anniston RCRA April 2020	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other: TEDP = Tetraethyldithiopyrophosphate

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Chlorobenzene	8270D ~~4,4'-DDE/4,4'-DDT~~/4-NP/pcp-TEPP	8081B_8082A - ~~PCB~~ Aroclors	8141B - Parathion~~/Ronnel~~/TEDP	6010C - Cobalt	8260B - (MOD) CB/1,2,4-TCB/Trichloroethene	82603 - 8260 Trip Blanks	81413 - Parathion Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	D	A				
MW-01B	10-21-20	1145	G	Water	N	N	X	X	X	X	X				10	
MW-15	10-22-20	1549	G	Water	N	Y	X	X	X	X	X				30	
MW-16	10-21-20	1711	G	Water	N	N	X	X	X	X	X				10	
MW-20A	10-21-20	1441	G	Water	N	N	X	X	X	X	X				10	
Duplicate ~~20201021~~	10-21-20	—	G	Water	N	N	X	X	X	X	X				10	
Trip Blank 20201023	10-23-20	—	—	Water	N	N							X		2	
MW-11A	10-22-20	1334	G	Water	N	N		X	X					X	6	
MW-12A	10-22-20	1006	G	Water	N	N		X	X					X	6	
MW-13A	10-22-20	742	G	Water	N	N		X	X					X	6	
				Water												
				Water												

680-190509 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify): Level II

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jennifer Robinson	10-23-20 1016	GSI	Banda	10-24-20	0950
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No
Custody Seal No.: 3.4/2.6/4.5/5.0/5.1/4.3/5.1
Cooler Temperature(s) °C and Other Remarks: (CF) 3.7/2.9/4.8/5.3/5.4/4.6/5.4°

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Weinberg, Amy	Carrier Tracking No(s):	COC No: 680-630728.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: amy.weinberg@Eurofinset.com	State of Origin: Alabama	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Alabama		Job #: 680-190509-1
Address: 4955 Yarrow Street,	Due Date Requested: 11/4/2020			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Anniston RCRA April 2020	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion/Sulfotepp	8141B/3510C Parathion	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-01 B (680-190509-1)	10/21/20	11:45 Central		Water			X		2	
MW-15 (680-190509-2)	10/22/20	15:49 Central		Water			X		2	
MW-15 (680-190509-2MS)	10/22/20	15:49 Central	MS	Water			X		2	
MW-16 (680-190509-3)	10/21/20	17:11 Central		Water			X		2	
MW-20 A (680-190509-4)	10/21/20	14:41 Central		Water			X		2	
Duplicate (680-190509-5)	10/21/20	Central		Water			X		2	
MW-11A (680-190509-7)	10/22/20	13:34 Central		Water				X	2	
MW-12A (680-190509-8)	10/22/20	10:06 Central		Water				X	2	
MW-13A (680-190509-9)	10/22/20	07:42 Central		Water				X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10-26-20	TA	[signature]	10/27/2020 0750	EDEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.6, 0.6 IR11 -0.3 3 10/27/2020

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-190509-1

Login Number: 190509
List Number: 1
Creator: Banda, Christy S

List Source: Eurofins TestAmerica, Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-190509-1

Login Number: 190509
List Number: 2
Creator: O'Hara, Jake F

List Source: Eurofins TestAmerica, Denver
List Creation: 10/27/20 05:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	