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May 10, 2024

SENT VIA ELECTRONIC MAIL

Mr. Austin Pierce
Alabama Department of Environmental Management
Engineering Services Section
Industrial Hazardous Waste Branch
Land Division
1400 Coliseum Boulevard
Montgomery, Alabama 36130-1463

RE: 2023 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 Mr. Pierce:

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,

A handwritten signature in blue ink, appearing to read "E. Gayle Pittman Macolly", with a stylized flourish at the end.

E. Gayle Pittman Macolly
Principal Remediation Manager, Major Projects
Solutia Inc.

Attachment: 2023 Annual Groundwater Detection Monitoring and Corrective Action
Effectiveness Report

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



2023 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: 10 May 2024

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ABBREVIATIONS

1,2,4-TCB	1,2,4-trichlorobenzene
ADEM	Alabama Department of Environmental Management
AHWMMA	Alabama Hazardous Waste Management and Minimization Act
AWWSB	Anniston Water Works & Sewer Board
bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
COC	Constituent of Concern
COV	Coefficient of Variation
CTS	Carbon Treatment System
GAC	granular activated carbon
GSI	GSI Environmental Inc.
IROD	Interim Record of Decision
IW	interceptor well
MNA	monitored natural attenuation
O,O,O-TEPP	o, o, o-Triethyl phosphorothioate
OU-3	Operable Unit 3
PCB	polychlorinated biphenyl
PNP	para-nitrophenol (also 4-nitrophenol)
PSVP	Performance Standard Verification Plan
RA	Remedial Action
RCRA	Resource Conservation and Recovery Act
S	Mann-Kendall statistic
SA QAPP	Sampling and Analysis/Quality Assurance Project Plan
SID	State Indirect Discharge
Site	Anniston PCB Site
Solutia	Solutia Inc.
SVOC	semi-volatile organic compound
SWMU	Solid Waste Management Unit
ug/L	micrograms per liter
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound
WMA	Waste Management Area

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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 2023 at the Solutia Inc. (Solutia) facility in Anniston, Alabama (see Figure 1). Groundwater monitoring and corrective actions are being conducted at Operable Unit 3 (OU-3) of the Anniston PCB Site (site) in accordance with the: i) Resource Conservation and Recovery Act (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 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 the Comprehensive Environmental Response, Compensation and Liability Act (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 2023.

1.2 Summary of Findings

Groundwater monitoring conducted during 2023 has demonstrated that the RCRA groundwater detection monitoring, RCRA groundwater 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 2a, 2b, and 3, respectively.

- **RCRA Groundwater Detection Monitoring:** At Waste Management Area (WMA) I (South Landfill Cells 4E and 5E), semi-annual groundwater sampling and testing during 2023 have demonstrated that no release has occurred from the unit.
- **RCRA Groundwater Corrective Action:** At WMA II (New Limestone Bed) and Solid Waste Management Unit (SWMU) 1 (South Landfill), semi-annual groundwater sampling and testing have demonstrated that operation of groundwater recovery systems is successfully intercepting affected groundwater. Statistical trend analysis of groundwater monitoring data shows that concentrations of Constituents of Concern (COCs) are generally stable or decreasing indicating the effectiveness of the groundwater recovery efforts.
- **CERCLA RA:** Groundwater pump-and-treat systems are recovering and treating 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 prior six years of CERCLA RA monitoring. Concentration trends indicate primarily stable to decreasing conditions for COCs at the CERCLA RA monitoring wells.

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. The manufacturing portion of OU-3 is bounded to the north by the Norfolk Southern railroad (formerly the Georgia Pacific railway), 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. OU-3 also includes the South Landfill located on the south side of Highway 202 and the northside properties area located north of the manufacturing area.

Solutia manufactures polyphenyl compounds and phosphate ester-based nonflammable hydraulic fluids. Solutia has and does operate 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 current and previous 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 (see Figure 3):

- WMA I: Closed Cells 4E and 5E of the South Landfill
- WMA II: New Limestone Bed
- SWMU 1: Closed Cells 1W, 2W, 2WA, 3W, 4W, 1E, 2E, and 3E of the South Landfill

Under the provisions of the IROD, a Performance Standards Verification Plan (PSVP) is being conducted to support the Remedial Action for OU-3 that includes the following Corrective Action Areas (see Figure 3):

- OW-21A Corrective Action Area
- OW-10 Corrective Action Area

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

Closed Cells 4E and 5E of the South Landfill have been designated as WMA I. 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 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).

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.

2.2.2 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, the column bottoms from an acetone recovery distillation column (F003) flowed through this surface impoundment. WMA II was closed in compliance with provisions contained in an operating permit issued under the AHWMA and RCRA. A series of interceptor wells located near the northern boundary of OU-3 addresses a release to groundwater in WMA II (see Figure 4).

2.2.3 SWMU 1: South Landfill

Individual closed disposal cells (i.e., 1W, 2W, 2WA, 3W, 4W, 1E, 2E, and 3E) of the South Landfill have been designated as SWMU 1, which has been referred to USEPA as noted in Table IV.4 of the current RCRA permit.

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 polychlorinated biphenyl [PCB] cells) of the South Landfill were upgraded with a high-density polyethylene liner 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).

Water from a pre-existing seep was observed emanating from beneath the cap at Cell 3E following construction in 2016. A seep collection, conveyance, and treatment system was installed in 2018 to collect water from beneath the cap. The system has been upgraded periodically to increase capacity and reduce iron fouling.

A series of interceptor wells (IWs) located north of the unit (including well IW-14A, located north of Highway 202 and west of Clydesdale Blvd.) addresses a release to groundwater in SWMU 1 (see Figure 4).

2.2.4 CERCLA Remedial Action Corrective Action Areas

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) to address parathion and PNP. Previous data indicate that MNA is only applicable in the OW-21A area, since 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, which were initially presented as Figures C-4 and C-5, respectively, in the 2008 RCRA Part B Post-Closure Permit Application (Solutia, 2008). 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 shallow and deep, as further described below. 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 material from the surface to a depth of about 45 feet bgs is referred to as the shallow residuum. The unit consists of sandy and silty clays, with fine-to-coarse-grained sand lenses and extends laterally across most of the facility. Where water-bearing, 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 indicate 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 is generally encountered under unconfined conditions. The surface topography from the northern face of Coldwater Mountain to the south of the site trends from an average slope of approximately 12% to a flatter gradient of approximately 2% 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 site. Additional detail on current groundwater flow patterns is provided in Section 5.1.

Monthly rainfall totals at the site for the last five years are presented in Table 7. The annual rainfall for 2023 was 52.41 inches (measured on-site), a decrease of more than 11 inches compared to 2022.

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. Remediation standards have been defined as the RCRA Concentration Limits for corrective actions currently being implemented in accordance with the requirements of the RCRA Permit, and as CERCLA Remediation Goals for remedial actions being conducted in accordance with the IROD. Remediation standards are provided on Table 5 along with the 2023 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 CERCLA OU-3 PSVP Sampling and Analysis/Quality Assurance Project Plan (SA QAPP; Solutia, 2015a).

3.2 Sampling Summary and Procedures

The routine RCRA and CERCLA groundwater monitoring events were conducted in April and October 2023, with supplemental groundwater monitoring activities conducted in June and August 2023 (see Table 2). The supplemental monitoring activities included:

- In June 2023, additional samples and field measurements were collected from five monitoring wells (OW-10, T-04, T-18, T-20, and WEL-01) due to a laboratory error that resulted in the disposal of the April 2023 PCB Aroclor samples from these wells prior to their analysis.
- In August 2023, samples and field measurements were collected from new monitoring well T-09-R, which replaced monitoring well T-09 in July 2023 after well integrity of T-09 was found to be compromised in March 2023 (Solutia, 2023). Construction specifications for replacement well T-09-R 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 and surrounding OU-3. Measurements were completed on 10 and 11 April and 16 October 2023, using electronic water level indicators having an accuracy of 0.01 feet. Groundwater elevations were tabulated (see Table 4) and used to construct potentiometric surface contour maps for the Shallow Residuum as discussed in Section 4.1 (see Figures 7a and 7b).

Figure 2a indicates the monitoring well network as it existed in April 2023 (with well T-09) and Figure 2b indicates the monitoring well network as it existed in October 2023 (with replacement well T-09-R).

3.2.2 Groundwater Sample Collection

3.2.2.1 Well Purging and Sampling

Monitoring wells were purged, and samples were 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, along with CERCLA Remedial Action monitoring well T-09-R, are equipped with dedicated bladder pumps used for both purging and sampling. In all remaining 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 liters per minute to produce minimal drawdown. Field indicator parameters (temperature, pH, specific conductance, turbidity, dissolved oxygen, and redox potential) were recorded until measurements stabilized to within specified ranges. Purge water was treated using granular activated carbon and discharged into the facility decontamination pit, which discharges to the facility equalization system and then to the Anniston publicly owned treatment works. Table 3 summarizes the values measured after stabilization and immediately prior to collecting the samples.

3.2.2.2 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, equipment 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 and their respective data evaluation checklists are provided in Appendix H.

3.2.2.3 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 2023 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 unit using groundwater measurements collected in April 2023 and October 2023 (see Figures 7a and 7b, respectively). Consistent with historical trends, most groundwater elevations were approximately 2 to 10 feet higher in April than in October 2023.

Both April and October 2023 groundwater gradients are consistent with those presented in previous annual groundwater monitoring reports and indicate similar groundwater flow directions and seepage velocities.

4.1.1 Shallow Residuum

Groundwater within the Shallow Residuum flows in a general north to northeasterly direction under a hydraulic gradient of approximately 0.03 (see Figures 7a and 7b). Based on previous aquifer testing, the geometric mean hydraulic conductivity of the Shallow Residuum is approximately 1.5×10^{-2} feet per day (5.4×10^{-6} centimeters per second; 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) shown in the following equation.

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

Where: V_s = seepage velocity, K = hydraulic conductivity, i = hydraulic gradient, and N_e = effective porosity. Based on the inputs above, the seepage velocity for the Shallow Residuum is calculated at approximately 1 foot per year. Note that transport of organic compounds would be slower than this calculated velocity due to sorption onto naturally occurring organic material within the groundwater-bearing unit.

4.2 Groundwater Quality

The overall results of the groundwater monitoring conducted in 2023 indicate that detected COCs and respective concentrations are generally consistent with previous results. A summary of COCs detected during the 2023 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 were collected and analyzed from the following four wells to satisfy the requirements of the latter two programs.

- **Well OW-08A:** Sampled for PCB Aroclors, cobalt, mercury, chlorobenzene, o, o, o-Triethyl phosphorothioate, 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 and manganese per the CERCLA Remedial Action Program.
- **Well OW-16A:** Sampled for PCB Aroclors, cobalt, mercury, chlorobenzene, o, o, o-Triethyl phosphorothioate, 4-nitrophenol, 1,2-dichlorobenzene, 1,4-dichlorobenzene, parathion, and

tetraethyldithiopyrophosphate per the RCRA Corrective Action Monitoring Program and 1,2,4-trichlorobenzene and manganese per the CERCLA Remedial Action Program.

- **Well OW-21A:** Sampled for PCB Aroclors, cobalt, mercury, chlorobenzene, o, o, o-Triethyl phosphorothioate, 4-nitrophenol, 1,2-dichlorobenzene, 1,4-dichlorobenzene, parathion, and tetraethyldithiopyrophosphate per the RCRA Corrective Action Monitoring Program and manganese per the CERCLA Remedial Action 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.
- **Well MW-14:** Sampled for PCB Aroclors, cobalt, mercury, chlorobenzene, o, o, o-Triethyl phosphorothioate, 4-nitrophenol, 1,2-dichlorobenzene, 1,4-dichlorobenzene, parathion, and tetraethyldithiopyrophosphate per the RCRA Corrective Action Monitoring Program and manganese per 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, MW-13A-R) above the RCRA Concentration Limits, indicating that no release has occurred from the unit (see Figure 8).

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), nine 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 (VOCs) and metals analyzed (see Figures 9 and 13). 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-16A	SWMU 1	Total PCBs (unfiltered)
MW-20A	WMA II	Pentachlorophenol
OW-21A	WMA II	Total PCBs (unfiltered) 4-Nitrophenol o, o, o-Triethyl phosphorothioate Parathion

As noted above, well OW-21A is monitored per the RCRA Corrective Action Monitoring Program, while the OW-21A area is addressed by the CERCLA Remedial Action Program. Results of OW-21A, along with results from other wells monitored in this area are discussed in detail in section

4.2.3 in context of the CERCLA Remedial Action Program. Specific results and notable differences from previous monitoring events are discussed in more detail below.

- **PCB Results in Filtered Samples:** Total PCB Aroclors were less than the applicable RCRA Concentration Limit of 0.5 micrograms per liter (ug/L) in all eight filtered samples (see Figure 11). Overall, the sampling results demonstrate that PCB detections in groundwater are primarily associated with entrained suspended solids that are typically removed through filtration.
- **CERCLA Results for 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 in section 4.2.3.3. Based on the Mann-Kendall statistical trend analysis, a stable trend for this COC has been established.
- **CERCLA Results for Well OW-21A:** As noted above, samples collected from OW-21A are analyzed for manganese, which has been assigned a Remediation Goal under CERCLA but not a Concentration Limit under RCRA. The concentration of manganese at well OW-21A exceeded the CERCLA Remediation Goal as discussed in section 4.2.3.3. Based on the Mann-Kendall statistical trend analysis, no trend for this COC has been established.
- **Notable Differences from Prior Monitoring Events:** At monitoring well OW-22, concentrations of Total PCB Aroclors were less than the reporting limit for the first time since April 2017. Based on Mann-Kendall statistical analysis, no trend has been established for Total PCBs at this well over the entire monitoring record, following a previous “increasing” trend (see Figure 11 and Appendix G, Figure G.4).

4.2.3 CERCLA Performance Verification Sampling

Results from the Spring 2023 groundwater sampling as conducted in accordance with the PSVP SA QAPP (Solutia, 2015a) are summarized below and on Figures 14 through 17. 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 Parathion Manganese
T-04	OW-21A	Total PCBs
OW-10	OW-10	Beryllium Manganese Mercury
T-20	OW-10	Manganese
OWR-11	Other Areas Within OU-3	Total PCBs Cobalt Manganese
OWR-13	Other Areas Within OU-3	Total PCBs
OWR-14D	Other Areas Within OU-3	Total PCBs
OWR-15D	Other Areas Within OU-3	Total PCBs
OW-16A	Other Areas Within OU-3	Total PCBs 1,2,4-Trichlorobenzene
T-18	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

- **VOCs:** All concentrations of VOCs were less than the CERCLA Remediation Goals for all wells in the well OW-21A Corrective Action Area (see Figure 14).
- **Pesticides and Semi-Volatile Organic Compounds (SVOCs):** At well OW-21A, concentrations of one pesticide (parathion) and one SVOC (4-nitrophenol) exceeded CERCLA Remediation Goals (see Figure 15). The concentration of parathion at well OW-21A is decreasing according to Mann-Kendall statistical analysis (see Appendix G, Figure G.6). The concentration of 4-nitrophenol at well OW-21A is stable according to Mann-Kendall statistical analysis, and “probably decreasing” considering the last 20 sampling events (see Appendix G, Figure G.1).
- **PCB Aroclors:** PCB Aroclors were detected in groundwater samples collected from two of the four wells sampled in the well OW-21A Corrective Action Area (OW-21A and T-04; see Figure 16). At well T-04, located hydraulically upgradient of OW-21A, total PCBs were reported at a concentration of 26 ug/L. Based on Mann-Kendall statistical trend analysis, no trend for PCBs at well T-04 has been established (see Figure G.8(A) of Appendix G). At well OW-21A, total PCBs were reported at a total concentration of 59 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). PCBs were not detected in monitoring well T-09-R. T-09-R was installed in July 2023 to replace monitoring well T-09, which was found to have compromised well integrity (Solutia, 2023).

- **Metals:** Manganese at well OW-21A exceeded CERCLA Remediation Goals (see Figure 17). Based on the Mann-Kendall statistical trend analysis, no trend for this COC has been established (see Figure G.12 of Appendix G).

4.2.3.2 Well OW-10 Corrective Action Area

- **VOCs:** All concentrations of VOCs were less than the CERCLA Remediation Goals for all wells in the well OW-10 Corrective Action Area (see Figure 14).
- **PCB Aroclors:** All concentrations of PCB Aroclors were less than the CERCLA Remediation Goals for all wells in the well OW-10 Corrective Action Area (see Figure 16).
- **Metals:** At well OW-10, beryllium, manganese, and mercury concentrations exceeded their respective CERCLA Remediation Goals (see Figure 17). In the downgradient well T-20, manganese concentrations also exceeded the CERCLA Remediation Goal. Mann-Kendall statistical trend analysis indicates that concentrations of manganese are decreasing at T-20 and probably decreasing at OW-10, that concentrations of beryllium are stable at OW-10, and that no trend has been established for concentrations of mercury at OW-10 (see Figures G.11 – G.13 of Appendix G).

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:

- **VOCs:** A concentration of 410 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 14). Mann-Kendall statistical trend analysis indicates that concentrations of 1,2,4-trichlorobenzene at well OW-16A are stable (see Figures G.7 of Appendix G).
- **SVOCs:** 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 15).
- **PCB Aroclors:** The concentrations of total PCB Aroclors were less than the reporting limit at five wells (i.e., WEL-01, WEL-04, OWR-03S, OWR-14D and T-06). Reported concentrations of total PCB Aroclors in unfiltered samples exceeded the CERCLA Remediation Goal of 0.5 ug/L at the other four wells (i.e., OWR-11, OWR-13, OWR-15D, and T-18; see Figure 16). Mann-Kendall statistical trend analysis indicates that concentrations of PCB Aroclors are stable at wells OWR-11 and OWR-13 and that no trend has been established for concentrations of PCB Aroclors at wells OWR-15D and T-18 (see Figure G.8 of Appendix G).
- **PCB Homologs:** Reported concentrations of total PCB Homologs in unfiltered samples exceeded the CERCLA Remediation Goal of 0.5 ug/L at monitoring wells OWR-13, OWR-14D (in the duplicate), and T-18 (see Figure 16 and Table 5). Mann-Kendall statistical trend analysis indicates that concentrations of PCB Homologs are decreasing at well T-18 and probably decreasing at well OWR-14D, and that no trend has been established for concentrations of PCB Homologs at well OWR-13 (see Figure G.9 of Appendix G).
- **Metals:** Concentrations of cobalt and manganese were less than CERCLA Remediation Goals in all but one well, OWR-11 (see Figure 17). Mann-Kendall statistical trend analysis indicates that concentrations of cobalt and manganese are decreasing at well OWR-11 (see Figures G.10 and G.12 of Appendix G).

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, recovery of impacted groundwater occurs throughout the year (see Table 6), with COCs detected in the influent to the treatment system.

5.2 Corrective Action Systems Operation

A summary of the operation of the corrective action systems during calendar year 2023 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 Figures 2a and 2b). Volumes of recovered groundwater are measured for the entire well network and totaled more than 0.36 million gallons during 2023 (see Table 6). Water is collected in a tank for subsequent on-site management.
- **SWMU 1, South Landfill:** More than 0.64 million gallons were recovered in 2023 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-14A; see Table 6 and Figures 2a and 2b). Recovered groundwater is treated by filtration and granular activated carbon (GAC) in Carbon Treatment System (CTS) #3 (except for well IW-14A, which discharges to CTS #2 for treatment). 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). The volume of groundwater recovered by the system in 2023 is within the range of the previous five-year period when between 0.3 and 0.8 million gallons were recovered each year.
- CTS #3 also treats water collected by the Cell 3E seep collection and conveyance system. In 2023, seep water treated at CTS #3 totaled approximately 0.44 million gallons (this volume is in addition to the volume of groundwater recovered by the SWMU 1 IWs).
- **Well OW-21A Corrective Action Area:** A total of more than 0.85 million gallons of groundwater was recovered from wells IW-26 and IW-27 located downgradient of well OW-21A (see Table 6 and Figures 2a and 2b). 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 121,500 gallons of groundwater were recovered from wells IW-28 and IW-29 located downgradient of well OW-10 (see Table 6 and Figures 2a and 2b). 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

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 analyzed. The Mann-Kendall statistical analysis was employed for this purpose.

5.3.1 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.

5.3.2 Interpretation of Mann-Kendall Test Results

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 COC at 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
$S \leq 0$	$< 90\%$ and $COV \geq 1$	No Trend
$S \leq 0$	$< 90\%$ and $COV < 1$	Stable
$S < 0$	90 - 95%	Probably Decreasing
$S < 0$	95%	Decreasing

5.3.3 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 between 2017-2023 as summarized in Exhibit 4 below.

As summarized in Exhibit 4, a total of ten COCs at 16 monitoring locations have had concentrations exceeding remedial criteria between 2017 and 2023, resulting in trend calculation for 32 COC/well combinations. Where a trend has been established using the Mann-Kendall statistical analysis, 17 of the 32 trend results were Stable, Probably Decreasing, or Decreasing, while only 1 of the 32 trend results were Probably Increasing or Increasing. For 9 of the 32 trend

results, no trend has been established due to low statistical confidence in the trend and/or high variability in the monitoring data. Seven of the 9 “no trend” results are associated with CERCLA monitoring wells, which have had seven monitoring events (a minimum of four monitoring events is required to calculate a trend). Five additional trend results were not calculated due to a majority of non-detect results.

Three trends for constituents exceeding the RCRA Concentration Limits changed relative to the previously calculated trends: Total PCBs (unfiltered) at OW-22 changed from “increasing” to “no trend”, Total PCBs (unfiltered) at OW-15 changed from “increasing” to “probably increasing”, and 4-nitrophenol at OW-21A changed from “stable” to “probably decreasing”. These trend changes are all due to declining concentrations measured in 2023.

Six trends for constituents exceeding the CERCLA Remediation Goals changed relative to the previously calculated trends: Total PCBs at T-04 changed from “probably increasing” to “no trend”, Total PCBs at T-06 changed from “stable” to “probably decreasing”, manganese at OW-10 changed from “stable” to “probably decreasing”, 1,2,4-TCB at OW-16A changed from “no trend” to “stable”, Total PCBs at OWR-13D changed from “no trend” to “stable”, and Total PCBs at OWR-14D changed from “stable” to “no trend”. With exception of Total PCBs at OWR-14D, these trend changes are due to declining concentrations measured in 2023.

As previously reported, the increasing trend at well T-09 for Total PCBs calculated following the 2022 monitoring event was found to be associated with compromised well integrity (Solutia, 2023). No PCBs were detected in the replacement monitoring well T-09-R in August 2023. A new trend for replacement well T-09-R will be calculated after the minimum of four sampling events have been completed for this well.

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	-381	>99.90%	Decreasing
OW-22	Total PCBs	56	89.9%	No Trend
	Total PCBs (Filtered)	--	--	Not Detected
SWMU 1				
OW-08A	Total PCBs	-105	92.1%	Prob. Decreasing
	Total PCBs (Filtered)	--	--	Not Detected
OW-15	Total PCBs	103	91.7%	Prob. Increasing
	Total PCBs (Filtered)	--	--	Not Detected
OW-16A	Total PCBs	-45	72.5%	Stable
	Total PCBs (Filtered)	--	--	Not Detected
	1,2,4-TCB	0	37.9%	Stable
OW-21A Area				
OW-21A	4-Nitrophenol	-49	94.0%	Prob. Decreasing
	O,O,O-TEPP	-54	94.5%	Prob. Decreasing
	Total PCBs	-90	99.7%	Decreasing
	Total PCBs (Filtered)	--	--	Not Detected
	Parathion	-74	98.1%	Decreasing
	Manganese	6	76.4%	No Trend
T-04	Total PCBs	9	88.1%	No Trend
OW-10 Area				
OW-10	Total PCBs	-8	84.5%	No Trend
	Manganese	-10	90.7%	Prob. Decreasing
	Mercury	5	71.9%	No Trend
	Beryllium	-7	80.9%	Stable
T-20	Total PCBs	5	71.9%	No Trend
	Manganese	-19	99.9%	Decreasing
Other Areas Within OU-3				
OWR-11	Total PCBs	-3	61.4%	Stable
	Cobalt	-17	99.5%	Decreasing
	Manganese	-14	97.5%	Decreasing
OWR-13	Total PCBs	-1	50.0%	Stable
OWR-14D	Total PCBs	-4	66.7%	No Trend
OWR-15D	Total PCBs	1	50.0%	No Trend
T-06	Total PCBs	-10	90.7%	Prob. Decreasing
T-18	Total PCBs	3	61.4%	No Trend
WEL-01	Total PCBs	-5	71.9%	Stable

Notes:

1. See Appendix G for complete Mann-Kendall results.
2. O,O,O-TEPP = o, o, o-Triethyl phosphorothioate
3. 1,2,4-TCB = 1,2,4-Trichlorobenzene; only analyzed in OW-16A per CERCLA
4. Not Detected = More than 75% of the sample results for this constituent in this well are non-detect, so a trend was not calculated to avoid calculating a trend on detection limits.

5.4 Conclusions

At WMA II and SWMU 1, concentration trends of all COCs exceeding the respective RCRA Remedial Goals evidence decreasing, probably decreasing, or stable conditions, with one well exhibiting no trend due to variability. Only a single well in the RCRA monitoring network, OW-15, is calculated to have a “probably increasing” trend for Total PCBs; however, as discussed in section 5.3.3, PCBs have not been detected in this well since 2020 and filtered samples have not shown any PCB detections. Overall, the calculated trends are generally consistent with the trends previously presented, with changes noted indicating declining concentrations.

Trends for all monitoring wells in the CERCLA Corrective Action Areas evidence decreasing, probably decreasing, or stable conditions, with a few wells exhibiting no trend due to variability. Overall, the calculated trends are generally consistent with the trends previously presented, with most changes noted indicating declining concentrations.

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.

6.0 REFERENCES

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2023 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

TABLES

Table 1. Well Designations for Groundwater Monitoring Programs

Table 2. Well Sampling Frequency and Analytical Program

Table 3. Groundwater Field Parameters

Table 4. Groundwater Elevation Measurements

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Table 7. Monthly Rainfall 2019 to 2023

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-R	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

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-R	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:

- Well locations are shown on Figure 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.
 Well MW-13A was replaced with MW-13A-R in October 2022.
 Well T-09 was replaced with T-09-R in July 2023.
- 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.
- 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

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 - April Sampling Event		
MW-01B	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		o, o, o-Triethyl phosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
MW-11A	SVOCs	Cobalt
		Mercury
	SVOCs	4-Nitrophenol
	SVOCs	o, o, o-Triethyl phosphorothioate
MW-12A	PCBs	Aroclors
	Pesticides	Parathion
	SVOCs	4-Nitrophenol
	SVOCs	o, o, o-Triethyl phosphorothioate
MW-13A-R	PCBs	Aroclors
	Pesticides	Parathion
	SVOCs	4-Nitrophenol
	SVOCs	o, o, o-Triethyl phosphorothioate
MW-08	PCBs	Aroclors
	Pesticides	Parathion
	Pesticides	Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		o, o, o-Triethyl phosphorothioate
MW-09A	PCBs	Aroclors
	Pesticides	Parathion
	Pesticides	Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		o, o, o-Triethyl phosphorothioate

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 - April Sampling Event (Continued)		
MW-14	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		o, o, o-Triethyl phosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
MW-15		Manganese
	Mercury	Mercury
	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		o, o, o-Triethyl phosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
MW-15 (Filtered)	Metals	Cobalt
	Mercury	Mercury
	PCBs	Aroclors
MW-16	Metals	Cobalt
	Mercury	Mercury
	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		o, o, o-Triethyl phosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
MW-16 (Filtered)	Metals	Cobalt
	Mercury	Mercury
	PCBs	Aroclors

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 - April Sampling Event (Continued)		
MW-20A	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		Pentachlorophenol
		2,4,6-Trichlorophenol
		o, o, o-Triethyl phosphorothioate
	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-Triethyl phosphorothioate
	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-Triethyl phosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
		Manganese
	Mercury	Mercury
OW-08A (Filtered)	PCBs	Aroclors
	Metals	Cobalt
		Manganese
	Mercury	Mercury

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 - April Sampling Event (Continued)		
OW-15	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		o, o, o-Triethyl phosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
Metals	Cobalt	
Mercury	Mercury	
OW-15 (Filtered)	PCBs	Aroclors
	Metals	Cobalt
	Mercury	Mercury
OW-16A	VOCs	Chlorobenzene
	SVOCs	1,2,4-Trichlorobenzene
		1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		o, o, o-Triethyl phosphorothioate
	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-Triethyl phosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
Metals	Cobalt	
	Manganese	
Mercury	Mercury	

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 - April 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-Triethyl phosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
OW-22 (Filtered)	PCBs	Aroclors
	Metals	Cobalt
	Mercury	Mercury
Trip Blank (3 samples)	VOCs	Chlorobenzene
		1,2,4-Trichlorobenzene
Field Duplicate 1 (1 sample)	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		Pentachlorophenol
		2,4,6-Trichlorophenol
		o, o, o-Triethyl phosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
MS/MSD (1 set)	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		Pentachlorophenol
		2,4,6-Trichlorophenol
		o, o, o-Triethyl phosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury

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 - April Sampling Event		
OW-10	VOCs	Trichloroethene
	PCBs	Aroclors
	Metals	Beryllium
	Mercury	Manganese
OW-10 (Filtered)	PCBs	Mercury
	Metals	Aroclors
	Mercury	Beryllium
		Manganese
OWR-03S	PCBs	Mercury
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-R	SVOCs	4-Nitrophenol
	PCBs	Aroclors
	Pesticides	Parathion
T-09-R (Filtered)	PCBs	Aroclors
T-10	SVOCs	4-Nitrophenol
	PCBs	Aroclors
	Pesticides	Parathion

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 - April 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)	PCBs	Aroclors
	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
	Mercury	Manganese
Field Duplicate 4 (Filtered)	PCBs	Mercury
	Metals	Aroclors
	Mercury	Beryllium
	Metals	Manganese
MS/MSD (1 set)	VOCs	Mercury
	PCBs	Trichloroethene
	Metals	Aroclors
	Mercury	Beryllium
		Manganese
		Mercury

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-Triethyl phosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
MW-11A	Metals	Cobalt
	SVOCs	4-Nitrophenol
		o, o, o-Triethyl phosphorothioate
	PCBs	Aroclors
MW-12A	Pesticides	Parathion
	SVOCs	4-Nitrophenol
		o, o, o-Triethyl phosphorothioate
MW-13A-R	PCBs	Aroclors
	Pesticides	Parathion
	SVOCs	4-Nitrophenol
		o, o, o-Triethyl phosphorothioate
MW-15	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	SVOCs	4-Nitrophenol
		o, o, o-Triethyl phosphorothioate
MW-16	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	SVOCs	4-Nitrophenol
		o, o, o-Triethyl phosphorothioate
MW-20A	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	SVOCs	4-Nitrophenol
		o, o, o-Triethyl phosphorothioate
Trip Blank (1 sample)	VOCs	Chlorobenzene

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-Triethyl phosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
MS/MSD (1 set)	VOCs	Chlorobenzene
	SVOCs	4-Nitrophenol
		o, o, o-Triethyl phosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt

Notes:

- Methods:

VOCs = 8260	PCB Homologs = 680	Mercury = 7470
SVOCs = 8270	Pesticides = 8141	
PCBs = 8082	Metals (Be, Mn, Co) = 6010	
- 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
- Well MW-13A was replaced with MW-13A-R in October 2022.
 Well T-09 was replaced with T-09-R in July 2023.

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)
Spring 2023								
MW-01B	4/11/2023	15:27	17.63	4.79	10	83.9	7.76	269.3
MW-08	4/13/2023	17:00	17.67	6.31	340	13.7	1.24	150.3
MW-09A	4/13/2023	15:49	18.89	5.14	100	1.97	5.28	243.3
MW-11A	4/11/2023	19:14	16.67	7.91	240	45.9	5.35	123.5
MW-12A	4/15/2023	12:24	17.52	7.63	309	2.61	3.75	46.4
MW-13A-R	4/12/2023	9:22	16.89	7.62	300	5.57	4.24	178.3
MW-14	4/15/2023	11:13	18.59	7.30	210	448	0.31	206.5
MW-15	4/12/2023	14:30	20.56	6.38	310	6.27	1.96	167.5
MW-16	4/12/2023	16:05	21.54	4.94	50	2.47	0.81	216.6
MW-20A	4/13/2023	10:05	18.57	8.01	1060	55	0.33	-90.7
OW-06A	4/12/2023	15:15	18.20	4.90	30	13.5	6.20	282.1
OW-08A	4/16/2023	11:03	18.65	6.78	220	5.21	4.15	194.0
OW-10	4/14/2023	11:39	18.64	7.69	850	15.8	4.87	174.9
OW-15	4/17/2023	12:37	18.21	6.05	126	1.19	3.93	193.5
OW-16A	4/17/2023	10:10	18.23	5.29	141	9.04	0.27	208.5
OW-21A	4/16/2023	11:00	20.56	4.63	100	20.0	0.45	168.2
OW-22	4/13/2023	18:05	18.94	4.86	70	12.6	2.12	304.7
OWR-11	4/17/2023	11:16	18.19	3.68	320	9.50	2.82	327.0
OWR-13	4/14/2023	15:48	19.76	6.76	180	5.85	5.83	201.8
OWR-14D	4/14/2023	11:50	21.70	6.58	0	35.9	8.66	178.1
OWR-15D	4/13/2023	10:48	17.09	5.84	150	15.1	0.40	144.2
OWR-3S	4/12/2023	12:40	20.84	5.29	90	29.4	1.56	222.8
T-04	4/15/2023	12:53	20.94	6.95	200	41.4	9.43	113.4
T-06	4/13/2023	14:08	19.22	7.40	780	22.2	0.52	115.5
T-10	4/11/2023	15:34	19.90	5.55	170	18.8	8.36	211.4
T-18	4/14/2023	16:15	20.80	5.66	0	43.9	6.70	70.2
T-20	4/16/2023	12:07	18.54	3.90	246	107	9.95	445.3
WEL-01	4/15/2023	11:02	19.75	5.24	60	6.96	4.79	188.5
WEL-04	4/12/2023	18:06	19.01	4.71	50	3.67	4.44	292.8
OW-10	6/13/2023	14:42	19.47	5.96	808	13.60	9.39	217.9
T-04	6/14/2023	10:27	20.22	6.18	199	5.50	0.23	147.3
T-18	6/14/2023	14:03	22.41	5.49	200	212.00	5.41	89.8
T-20	6/14/2023	9:02	20.30	4.22	238	15.70	1.52	300.9
WEL-01	6/13/2023	17:00	19.58	4.73	61	0.71	3.81	251.2
T-09-R	8/9/2023	9:01	20.48	5.40	149	1.3	3.08	191.0
Fall 2023								
MW-01B	10/17/2023	9:06	16.55	4.73	20	5.32	7.01	249.5
MW-11A	10/17/2023	10:05	17.15	7.89	230	8.16	5.55	128.6
MW-12A	10/17/2023	14:13	17.07	7.65	270	0.59	5.14	174.8
MW-13A-R	10/18/2023	9:43	17.69	7.15	290	2.51	4.34	184.2
MW-15	10/18/2023	16:23	22.89	5.53	498	8.5	0.25	194.7
MW-16	10/18/2023	15:08	21.47	4.72	50	5.83	0.47	228
MW-20A	10/18/2023	13:28	23.29	6.95	1090	20.8	0.43	-131.6

Notes:

- Well locations are shown on Figure 2.
- Samples collected in April, June, Aug., and Oct. 2023 analyzed by GSI Environmental Inc., Houston, Texas using Aqua Troll 600 and Hanna HI 98703 instruments.
- Additional sampling took place in June 2023 as part of the Spring 2023 event due to laboratory loss of April 2023 samples.
- Well T-09 was replaced with T-09-R in July 2023 and sampled in August 2023.
- > = greater than
 °C = Degrees Celsius
 mg/L = Milligrams/liter
 mV = Millivolts
 NTU = Nephelometric Turbidity Unit
 ORP = Oxidation reduction potential
 µmhoS/cm = Micromhos/centimeter

TABLE 4
GROUNDWATER ELEVATION MEASUREMENTS
April and October 2023

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)
			April 2023 (Note 3)	October 2023 (Note 3)	April 2023	October 2023	2021 - 2023 (Note 2, 3, & 5)
Observation Wells							
OW-02	24	807.69	7.91	17.32	799.78	790.37	25.46
OW-03	24	805.25	11.23	20.37	794.02	784.88	27.92
OW-04	27	798.57	11.62	23.64	786.95	774.93	29.75
OW-06A	43	791.60	36.95	43.43	754.65	748.17	52.12
OW-08A	22	749.16	8.13	16.56	741.03	732.60	25.30
OW-10	40	736.87	9.52	17.12	727.35	719.75	39.29
OW-15	40	766.90	7.49	16.09	759.41	750.81	45.00
OW-16A	30	779.74	10.33	19.70	769.41	760.04	38.22
OW-19	33	748.72	8.30	10.73	740.42	737.99	19.15
OW-21A	35	744.46	12.56	15.41	731.90	729.05	37.99
OW-22	35	745.57	12.32	15.38	733.25	730.19	39.40
OW-24	29	738.67	8.02	9.23	730.65	729.44	24.49
West End Landfill Wells							
WEL-01	33	778.75	6.32	25.07	772.43	753.68	34.51
WEL-04	51	765.94	25.71	30.49	740.23	735.45	51.97
Monitoring Wells							
MW-01B	63	881.59	28.54	43.26	853.05	838.33	65.54
MW-08	27	746.80	7.81	15.64	738.99	731.16	30.62
MW-09A	33	751.02	16.90	25.52	734.12	725.50	36.20
MW-11A	114	784.13	91.08	97.25	693.05	686.88	115.22
MW-12A	112	785.69	93.60	99.41	692.09	686.28	115.32
MW-13A-R	112	782.15	90.62	97.09	691.53	685.06	114.69
MW-14	28	751.30	10.23	16.02	741.07	735.28	26.66
MW-15	25	756.19	11.10	13.44	745.09	742.75	NM
MW-16	68	755.70	25.50	28.77	730.20	726.93	69.89
MW-20A	24	752.90	8.45	10.75	744.45	742.15	25.55

TABLE 4
GROUNDWATER ELEVATION MEASUREMENTS
April and October 2023

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)
			April 2023 (Note 3)	October 2023 (Note 3)	April 2023	October 2023	2021 - 2023 (Note 2, 3, & 5)
SSSMA Wells							
NW-1	54	827.40	26.46	28.92	800.94	798.48	43.28
SW-1	52	902.95	14.70	27.41	888.25	875.54	54.71
Other Wells							
DW-01	96	753.88	NM	NM	NM	NM	NM
CMW-1	28.5	720.40	6.22	16.55	714.18	703.85	31.10
CMW-2	22.5	716.69	9.62	12.50	707.07	704.19	25.28
CMW-3	27.0	710.22	11.10	22.12	699.12	688.10	30.34
East SSSMA	15.0	829.70	9.02	15.21	820.68	814.49	17.96
West SSSMA	15.3	827.90	12.67	17.71	815.23	810.19	18.16
T Wells							
T-01	45	732.72	30.05	38.12	702.67	694.60	41.14
T-02	44	751.13	14.51	21.08	736.62	730.05	46.23
T-03	25	746.13	8.11	17.95	738.02	728.18	26.19
T-04	25	743.28	9.17	12.06	734.11	731.22	26.30
T-06	150	761.96	79.04	83.98	682.92	677.98	127.05
T-09	37	745.46	13.58	P&A	731.88	P&A	13.58
T-09-R	37	745.46	--	20.92	--	724.54	42.43
T-10	35	740.20	14.65	27.84	725.55	712.36	39.11
T-18	28	762.78	4.45	4.80	758.33	757.98	26.60
T-19	39	758.51	16.61	21.56	741.90	736.95	41.99
T-20	40	731.53	4.06	9.75	727.47	721.78	37.49
RFI Observation Wells							
OWR-01S	35	738.89	9.01	17.42	729.88	721.47	37.01
OWR-02S	35	757.46	6.23	12.04	751.23	745.42	38.12
OWR-03S	35	760.48	9.35	10.60	751.13	749.88	37.25
OWR-09S	50	753.16	32.17	43.86	720.99	709.30	52.49
OWR-10	49	769.95	15.04	26.20	754.91	743.75	51.56
OWR-11	35	744.26	9.95	11.76	734.31	732.50	37.45
OWR-12	37	763.20	15.23	17.78	747.97	745.42	38.89

TABLE 4
GROUNDWATER ELEVATION MEASUREMENTS
April and October 2023

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)
			April 2023 (Note 3)	October 2023 (Note 3)	April 2023	October 2023	2021 - 2023 (Note 2, 3, & 5)
RFI Observation Wells (continued)							
OWR-13	36	769.45	14.72	25.73	754.73	743.72	38.92
OWR-14D	81	782.11	68.02	74.71	714.09	707.40	82.15
OWR-15D	64	781.44	12.32	21.16	769.12	760.28	66.90
Interceptor Wells							
IW-01	26	821.18	1.48	6.77	819.70	814.41	25.82
IW-02	25	815.27	21.95	18.32	793.32	796.95	24.62
IW-03	25	810.59	9.60	20.03	800.99	790.56	31.15
IW-04	25	799.88	4.82	19.31	795.06	780.57	25.95
IW-05	68	805.46	55.16	55.41	750.30	750.05	63.05
IW-06	68	803.84	48.34	52.38	755.50	751.46	54.61
IW-07	40	794.63	26.80	DRY	767.83	DRY	37.31
IW-08	39.5	798.02	45.83	38.18	752.19	759.84	39.78
IW-09	50	801.03	46.41	DRY	754.62	DRY	49.04
IW-10	68	801.93	56.91	58.34	745.02	743.59	64.09
IW-11	68	804.62	59.52	60.80	745.10	743.82	67.12
IW-12	50	797.86	42.97	46.82	754.89	751.04	57.70
IW-13	50	795.74	30.57	38.32	765.17	757.42	45.05
IW-14A	49.4	746.70	43.16	DRY	703.54	DRY	36.30
IW-15	45	756.73	5.88	9.81	750.85	746.92	38.13
IW-16	50	746.82	10.93	36.46	735.89	710.36	45.19
IW-17	50	746.65	43.90	40.81	702.75	705.84	47.63
IW-18	50	748.63	26.43	37.85	722.20	710.78	48.13
IW-19	50	749.31	30.81	43.10	718.50	706.21	48.12
IW-20	50	750.70	31.51	37.60	719.19	713.10	49.31
IW-21	50	752.45	44.95	41.95	707.50	710.50	48.19
IW-22	39.9	743.23	NM	NM	NM	NM	36.42
IW-23	50	745.20	NM	NM	NM	NM	46.49
IW-24	40	745.86	NM	NM	NM	NM	36.14
IW-25	40	751.96	NM	NM	NM	NM	36.62

TABLE 4
GROUNDWATER ELEVATION MEASUREMENTS
April and October 2023

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)
			April 2023 (Note 3)	October 2023 (Note 3)	April 2023	October 2023	2021 - 2023 (Note 2, 3, & 5)
Interceptor Wells (continued)							
IW-26	35	731.90	NM	NM	NM	NM	28.53
IW-27	35	731.90	NM	NM	NM	NM	29.19
IW-28	38	726.70	NM	NM	NM	NM	40.92
IW-29	38	726.70	NM	NM	NM	NM	40.23
Eastside Properties							
EP-MW-01	30	747.76	8.51	29.58	739.25	718.18	29.70
EP-MW-02	30.5	744.38	5.64	25.73	738.74	718.65	26.62
EP-PZ-01	27	745.64	7.00	21.93	738.64	723.71	27.53
EP-PZ-02	25.5	744.57	4.70	23.52	739.87	721.05	25.14

Notes:

- Well locations are shown on Figure 2.
- April 2023 depths to water and total depths measured on 10 and 11 April 2023.
- October 2023 depths to water and total depths measured on 16 October 2023.
- 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 = Plugged and Abandoned prior to Oct. 2023, so depth to water and total depth were not measured.
-- = Well T-09-R was installed after the April sampling event, so no measurement was possible.
- Total depth (TD) was most recently measured in most wells in April or October 2023. T-09-R TD was measured in August 2023. IW-22 through IW-29 TDs were most recently measured in October 2021.

TABLE 5
RESULTS OF GROUNDWATER TESTING: DETECTED ANALYTES
2023 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: Location ID: Sample Date: Sample Type: Filtered: Sample ID:	CASNo	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
				EFFLUENT	EFFLUENT	MW-01B	MW-01B	MW-11A	MW-11A	MW-12A	MW-12A
				4/17/2023	8/9/2023	4/11/2023	10/17/2023	4/11/2023	10/17/2023	4/11/2023	10/17/2023
				N	N	N	N	N	N	N	N
				No	No	No	No	No	No	No	No
Purgewater	Purge Water	MW-01B	MW-01B	MW-11A	MW-11A	MW-12A	MW-12A				
Analyte		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs By Method 8260D											
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	--	-	-	<10	-	-	-	-	-
4-Nitrophenol	100-02-7	128	125	-	-	<25	<25	<25	<25	<25 J	<25
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	-	<10	<10	<10	<10	23 J	<10
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific By Method 8081B/8082A											
Aroclor 1221	11104-28-2	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific By Method 680											
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-
Pesticides By Method 8141B											
Parathion	56-38-2	75	85	-	-	<1 J	<1	<1 J	<1	<1 J	<1
Metals By Methods 6010C, 6010D, and 7470A											
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	694	73	-	-	<10	<10 J	-	-	-	-
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 Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.

3. J = Estimated concentration;

-- = not applicable;

- = not analyzed.

Dup = Duplicate sample

N = Original sample

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compound

VOCs = Volatile organic compound

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

RCRA = Resource Conservation and Recovery Act

TABLE 5
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2023 Sampling

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

Analyte	CASNo	RCRA Concentration Limits	CERCLA Remediation Goals	RCRA Groundwater Detection Monitoring		RCRA Corrective Action Monitoring					
				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
				MW-13A-R	MW-13A-R	MW-08	MW-09A	MW-14	MW-15	MW-15	MW-15
				4/12/2023	10/18/2023	4/14/2023	4/14/2023	4/15/2023	4/12/2023	4/12/2023	10/18/2023
				N	N	N	N	N	N	N	N
Matrix: Location ID: Sample Date: Sample Type: Filtered: Sample ID:				No	No	No	No	No	No	Yes	No
				MW-13A-R	MW-13A-R	MW-08	MW-09A	MW-14	MW-15	MW-15F	MW-15
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs By Method 8260D											
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	102	--	-	-	<1	<1	<1	<1	-	<1
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-
SVOCs By Methods 8270D and 8270D SIM											
1,2-Dichlorobenzene	95-50-1	612	--	-	-	<10	<10 J	<10	<10	-	-
4-Nitrophenol	100-02-7	128	125	<25	<25	<25	<25 J	<25	<25	-	<25
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	<10	<10	<10	<10 J	<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 J	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
PCBs, Homolog Specific By Method 680											
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-
Pesticides By Method 8141B											
Parathion	56-38-2	75	85	<1	<1	<1	<1	<1 J	<1	-	<1
Metals By Methods 6010C, 6010D, and 7470A											
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	694	73	-	-	<10	<10	<10	<10	<10	<10
Manganese	7439-96-5	--	880	-	-	-	-	20	-	-	-
Mercury	7439-97-6	2	2	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-

Notes:

- Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
- 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
- J = Estimated concentration;
-- = not applicable;
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Dup = Duplicate sample
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TABLE 5
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2023 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: Location ID: Sample Date: Sample Type: Filtered: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
			MW-16	MW-16	MW-16	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A
			4/12/2023	4/12/2023	10/18/2023	4/14/2023	4/14/2023	4/14/2023	10/18/2023	10/18/2023	
			N	N	N	N	N	Dup	N	Dup	
			No	Yes	No	No	Yes	No	No	No	
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 8260D											
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	102	--	<1	-	<1	2.0	-	2.0	<1 J	1.4 J
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-
SVOCs By Methods 8270D and 8270D SIM											
1,2-Dichlorobenzene	95-50-1	612	--	<10	-	-	<10	-	<10	-	-
4-Nitrophenol	100-02-7	128	125	<25	-	97	<25	-	<25	<25	<25
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	58	-	68	38	-	41	59	69
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	5.0	-	5.5	-	-
PCBs, Aroclor Specific By Method 8081B/8082A											
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5
PCBs, Homolog Specific By Method 680											
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-
Pesticides By Method 8141B											
Parathion	56-38-2	75	85	<1	-	<1	<1	-	<1	<1	<1
Metals By Methods 6010C, 6010D, 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 Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.

3. J = Estimated concentration;

-- = not applicable;

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Dup = Duplicate sample

N = Original sample

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compound

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2023 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							
Analyte	CASNo	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
				OW-06A	OW-08A	OW-08A	OW-15	OW-15	OW-16A	OW-16A	OW-21A
				4/12/2023	4/16/2023	4/16/2023	4/17/2023	4/17/2023	4/17/2023	4/17/2023	4/16/2023
				N	N	N	N	N	N	N	N
				No	No	Yes	No	Yes	No	Yes	No
Sample ID:				OW-06A	OW-08A	OW-08AF	OW-15	OW-15F	OW-16A	OW-16AF	OW-21A
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 8260D											
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	410	-	-
Chlorobenzene	108-90-7	102	--	<1	<1	-	<1	-	<1	-	8.5
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-
SVOCs By Methods 8270D and 8270D SIM											
1,2-Dichlorobenzene	95-50-1	612	--	<10	<10	-	<10	-	<10	-	21
4-Nitrophenol	100-02-7	128	125	<25	<25	-	<25	-	<25	-	7900
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	<10	<10	-	<10	-	<10	-	180
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 J	<0.5	<0.5 J	16
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	2.0	<0.5	<0.5	<0.5 J	13	<0.5 J	40
Aroclor 1254	11097-69-1	--	--	<0.5	2.1	<0.5	<0.5	<0.5 J	14	<0.5 J	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	1.1	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	2.7
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	5.2	<0.5	<0.5	<0.5 J	27	<0.5 J	59
PCBs, Homolog Specific By Method 680											
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-
Pesticides By Method 8141B											
Parathion	56-38-2	75	85	<1	<1 J	-	<1	-	12	-	1900 J
Metals By Methods 6010C, 6010D, and 7470A											
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	694	73	<10	<10	<10	<10	18	39	40	36
Manganese	7439-96-5	--	880	-	<10	<10	-	-	800	830	900
Mercury	7439-97-6	2	2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Notes:

- Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
 - 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
 - J = Estimated concentration;
- = not applicable;
 - = not analyzed.

Dup = Duplicate sample
 N = Original sample
 PCBs = Polychlorinated biphenyls
 SVOCs = Semi-volatile organic compound

VOCs = Volatile organic compound
 CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
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TABLE 5
RESULTS OF GROUNDWATER TESTING: DETECTED ANALYTES
2023 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			CERCLA Remedial Action				
Matrix: Location ID: Sample Date: Sample Type: Filtered: Sample ID:	CASNo	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
				OW-21A	OW-22	OW-22	OW-10	OW-10	OW-10	OW-10	OW-10
				4/16/2023	4/14/2023	4/14/2023	4/14/2023	4/14/2023	4/14/2023	4/14/2023	6/13/2023
				N	N	N	N	N	Dup	Dup	N
				Yes	No	Yes	No	Yes	No	Yes	No
OW-21AF	OW-22	OW-22F	OW-10	OW-10F	Field Duplicate 3	Field Duplicate 3F	OW-10				
Analyte		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs By Method 8260D											
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	102	--	-	<1 J	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	5	-	-	-	3.3	-	3.2	-	-
SVOCs By Methods 8270D and 8270D SIM											
1,2-Dichlorobenzene	95-50-1	612	--	-	<10	-	-	-	-	-	-
4-Nitrophenol	100-02-7	128	125	-	<25	-	-	-	-	-	-
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	<10	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific By Method 8081B/8082A											
Aroclor 1221	11104-28-2	--	--	<0.5 J	<0.5	<0.5 J	-	-	-	-	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5 J	<0.5	<0.5 J	-	-	-	-	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5 J	<0.5	<0.5 J	-	-	-	-	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5 J	<0.5	<0.5 J	-	-	-	-	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5 J	<0.5	<0.5 J	-	-	-	-	<0.5
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5 J	<0.5	<0.5 J	-	-	-	-	<0.5
PCBs, Homolog Specific By Method 680											
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-
Pesticides By Method 8141B											
Parathion	56-38-2	75	85	-	<1	-	-	-	-	-	-
Metals By Methods 6010C, 6010D, and 7470A											
Beryllium	7440-41-7	--	4	-	-	-	4.1	5.2	4.1	5.4	-
Cobalt	7440-48-4	694	73	35	<10	<10	-	-	-	-	-
Manganese	7439-96-5	--	880	890	-	-	1100	580	1100	720	-
Mercury	7439-97-6	2	2	<0.2	<0.2	<0.2	4.2	5.7	4.1	6.9	-

Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.

2. 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.

3. J = Estimated concentration;

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Dup = Duplicate sample

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PCBs = Polychlorinated biphenyls

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2023 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: Location ID: Sample Date: Sample Type: Filtered: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
			OW-10	OW-10	OW-10	OWR-03S	OWR-11	OWR-11	OWR-13	OWR-13	
			6/13/2023	6/13/2023	6/13/2023	4/12/2023	4/17/2023	4/17/2023	4/14/2023	4/14/2023	
			N	Dup	Dup	N	N	N	N	N	
			Yes	No	Yes	No	No	Yes	No	Yes	
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 8260D											
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	--	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	128	125	-	-	-	-	-	-	-	-
o, o, o-Triethyl phosphorothioate	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	150	<0.5 J	<0.5	<0.5 J
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	130	<0.5 J	<0.5	<0.5 J
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	4.6	<0.5 J
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	0.66	<0.5 J
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	<0.5	<0.5	<0.5	280	<0.5 J	5.3	<0.5 J
PCBs, Homolog Specific By Method 680											
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	<0.1	<0.1
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	<0.1	<0.1
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	<0.1	<0.1
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	3.7	<0.2
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	1.6	<0.2
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	0.27	<0.2
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	5.6	<0.5
Pesticides By Method 8141B											
Parathion	56-38-2	75	85	-	-	-	-	-	-	-	-
Metals By Methods 6010C, 6010D, and 7470A											
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	694	73	-	-	-	-	140	140	-	-
Manganese	7439-96-5	--	880	-	-	-	-	2700	2800	-	-
Mercury	7439-97-6	2	2	-	-	-	-	-	-	-	-

Notes:

- Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
- 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
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2023 Sampling

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

Analyte	CASNo	RCRA Concentration Limits	CERCLA Remediation Goals	CERCLA Remedial Action							
				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
				OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-15D	OWR-15D	T-04	T-04
				4/14/2023	4/14/2023	4/14/2023	4/14/2023	4/13/2023	4/13/2023	4/15/2023	4/15/2023
				N	N	Dup	Dup	N	N	N	N
Matrix: Location ID: Sample Date: Sample Type: Filtered: Sample ID:				No	Yes	No	Yes	No	Yes	No	Yes
				OWR-14D	OWR-14DF	Field Duplicate 2	Field Duplicate 2F	OWR-15D	OWR-15DF	T-04	T-04F
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs By Method 8260D											
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	--	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	128	125	-	-	-	-	-	-	-	-
o, o, o-Triethyl phosphorothioate	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	43 J	<0.5 J	-	-
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	-	-
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	-	-
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	-	-
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	-	-
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	<0.5	<0.5	<0.5	43 J	<0.5 J	-	-
PCBs, Homolog Specific By Method 680											
Monochlorobiphenyl	27323-18-8	--	--	<0.1	<0.1	<0.1	<0.1	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	<0.1	<0.1	<0.1	<0.1	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	<0.1	<0.1	<0.1	<0.1	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	0.38	<0.2	0.42	<0.2	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	<0.2 J	<0.2	0.20 J	<0.2	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	<0.2	<0.2	<0.2	<0.2	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	0.38 J	<0.5	0.62 J	<0.5	-	-	-	-
Pesticides By Method 8141B											
Parathion	56-38-2	75	85	-	-	-	-	-	-	-	-
Metals By Methods 6010C, 6010D, and 7470A											
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	694	73	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	880	12 J	<10	18 J	<10	-	-	200	63
Mercury	7439-97-6	2	2	-	-	-	-	-	-	-	-

Notes:

- Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
- 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
- J = Estimated concentration;
 -- = not applicable;
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Dup = Duplicate sample
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2023 Sampling

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

Analyte	CASNo	RCRA Concentration Limits	CERCLA Remediation Goals	CERCLA Remedial Action							
				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
				T-04	T-04	T-06	T-06	T-09-R	T-09-R	T-09-R	T-10
				6/14/2023	6/14/2023	4/13/2023	4/13/2023	8/9/2023	8/9/2023	8/9/2023	4/11/2023
				N	N	N	N	N	N	Dup	N
Matrix: Location ID: Sample Date: Sample Type: Filtered: Sample ID:				No	Yes	No	Yes	No	Yes	No	No
				T-04	T-04F	T-06	T-06F	T-09-R	T-09-RF	Field Duplicate 4	T-10
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs By Method 8260D											
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	--	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	128	125	-	-	-	-	<25	-	<25	<25 J
o, o, o-Triethyl phosphorothioate	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	--	--	11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1254	11097-69-1	--	--	14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1260	11096-82-5	--	--	0.57	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
PCBs, Homolog Specific By Method 680											
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-
Pesticides By Method 8141B											
Parathion	56-38-2	75	85	-	-	-	-	<1	-	<1	<1 J
Metals By Methods 6010C, 6010D, 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:

- Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
- 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
- J = Estimated concentration;
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Analyte	CASNo	RCRA Concentration Limits	CERCLA Remediation Goals	CERCLA Remedial Action							
				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
				T-18	T-18	T-18	T-18	T-20	T-20	T-20	T-20
				4/14/2023	4/14/2023	6/14/2023	6/14/2023	4/16/2023	4/16/2023	6/14/2023	6/14/2023
				N	N	N	N	N	N	N	N
Matrix: Location ID: Sample Date: Sample Type: Filtered: Sample ID:				No	Yes	No	Yes	No	Yes	No	Yes
				T-18	T-18F	T-18	T-18F	T-20	T-20F	T-20	T-20F
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 8260D											
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	--	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	128	125	-	-	-	-	-	-	-	-
o, o, o-Triethyl phosphorothioate	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	--	--	-	-	16 J	<0.5	-	-	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	-	-	<0.5 J	<0.5	-	-	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	-	-	<0.5 J	<0.5	-	-	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	-	-	<0.5 J	<0.5	-	-	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	-	-	<0.5 J	<0.5	-	-	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	-	-	16 J	<0.5	-	-	<0.5	<0.5
PCBs, Homolog Specific By Method 680											
Monochlorobiphenyl	27323-18-8	--	--	36	0.50	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	12	0.11	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	0.29	<0.1	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	<0.2	<0.2	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	<0.2	<0.2	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	<0.2	<0.2	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	48	0.61	-	-	-	-	-	-
Pesticides By Method 8141B											
Parathion	56-38-2	75	85	-	-	-	-	-	-	-	-
Metals By Methods 6010C, 6010D, and 7470A											
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	694	73	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	880	-	-	-	-	2100	2100	-	-
Mercury	7439-97-6	2	2	-	-	-	-	<0.2	-	-	-

Notes:

- Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
- 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
- J = Estimated concentration;
 -- = not applicable;
 - = not analyzed.

Dup = Duplicate sample
 N = Original sample
 PCBs = Polychlorinated biphenyls
 SVOCs = Semi-volatile organic compound

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

TABLE 5
RESULTS OF GROUNDWATER TESTING: DETECTED ANALYTES
2023 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: Location ID: Sample Date: Sample Type: Filtered: Sample ID:	CASNo	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
				WEL-01	WEL-01	WEL-01	WEL-01	WEL-04	WEL-04
				4/15/2023	4/15/2023	6/13/2023	6/13/2023	4/12/2023	4/12/2023
				N	N	N	N	N	N
				No	Yes	No	Yes	No	Yes
WEL-01	WEL-01F	WEL-01	WEL-01F	WEL-04	WEL-04F				
Analyte		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs By Method 8260D									
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	--	-	-	-	-	-	-
4-Nitrophenol	100-02-7	128	125	-	-	-	-	-	-
o, o, o-Triethyl phosphorothioate	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
Aroclor 1232	11141-16-5	--	--	-	-	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	-	-	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	-	-	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	-	-	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	-	-	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific By Method 680									
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-
Pesticides By Method 8141B									
Parathion	56-38-2	75	85	-	-	-	-	-	-
Metals By Methods 6010C, 6010D, and 7470A									
Beryllium	7440-41-7	--	4	-	-	-	-	-	-
Cobalt	7440-48-4	694	73	-	-	-	-	-	-
Manganese	7439-96-5	--	880	15	13	-	-	58	40
Mercury	7439-97-6	2	2	-	-	-	-	-	-

Notes:

- Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
- 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.
- J = Estimated concentration;
-- = not applicable;
- = not analyzed.

Dup = Duplicate sample
N = Original sample
PCBs = Polychlorinated biphenyls
SVOCs = Semi-volatile organic compound

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

TABLE 6
VOLUMES OF GROUNDWATER RECOVERED DURING 2023

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	29,088	134,591	16,865	100,561
February	28,013	159,719	16,645	127,678
March	33,176	134,313	17,911	132,561
April	30,828	103,794	16,187	92,048
May	35,978	111,462	18,713	75,214
June	40,558	61,748	13,729	38,404
July	28,913	44,348	9,944	17,329
August	45,358	31,932	4,435	11,177
September	30,426	20,225	2,178	12,163
October	22,692	34,933	1,473	10,246
November	20,144	5,013	1,124	10,706
December	24,458	11,926	2,249	12,868
Total (2023)	369,632	854,004	121,453	640,955

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.
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

TABLE 7
MONTHLY RAINFALL 2019-2023

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

Month	2019	2020	2021	2022	2023
January	6.91	10.08	3.95	4.73	8.33
February	10.13	12.53	5.19	7.85	5.95
March	2.45	10.54	6.91	8.89	6.31
April	4.42	7.90	2.98	3.82	5.53
May	2.50	5.63	7.02	7.59	8.12
June	6.35	4.88	11.34	6.93	3.85
July	4.01	3.04	9.35	4.80	2.89
August	1.96	4.33	5.54	3.68	3.81
September	0.44	2.84	3.68	3.83	1.78
October	8.92	5.64	3.08	2.53	0.88
November	4.22	2.13	2.16	5.36	1.21
December	4.48	3.40	6.74	3.74	3.75
Total (inches)	56.79	72.94	67.94	63.75	52.41

Notes:

1. Rainfall data obtained from on-site rain gauge.
2. Monthly rainfall measured in inches.

2023 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

FIGURES

Figure 1. Site Location Map

Figure 2a. Monitoring Well Network: April 2023

Figure 2b. Monitoring Well Network: October 2023

Figure 3. Groundwater Monitoring and Corrective Action Areas

Figure 4. Corrective Action Systems

Figure 5. North-South Cross-Section

Figure 6. West-East Cross-Section

Figure 7a. Potentiometric Surface Map: Shallow Residuum, April 2023

Figure 7b. Potentiometric Surface Map: Shallow Residuum, October 2023

Figure 8. Results of 2023 RCRA Groundwater Detection Monitoring at WMA I

Figure 9. Results of 2023 RCRA Groundwater Corrective Action Monitoring at WMA II and SWMU 1: Volatile Organic Compounds

Figure 10. Results of 2023 RCRA Groundwater Corrective Action Monitoring at WMA II and SWMU I: Semi-Volatile Organic Compounds

Figure 11. Results of 2023 RCRA Groundwater Corrective Action Monitoring at WMA II and SWMU I: PCBs

Figure 12. Results of 2023 RCRA Groundwater Corrective Action Monitoring at WMA II and SWMU I: Pesticides

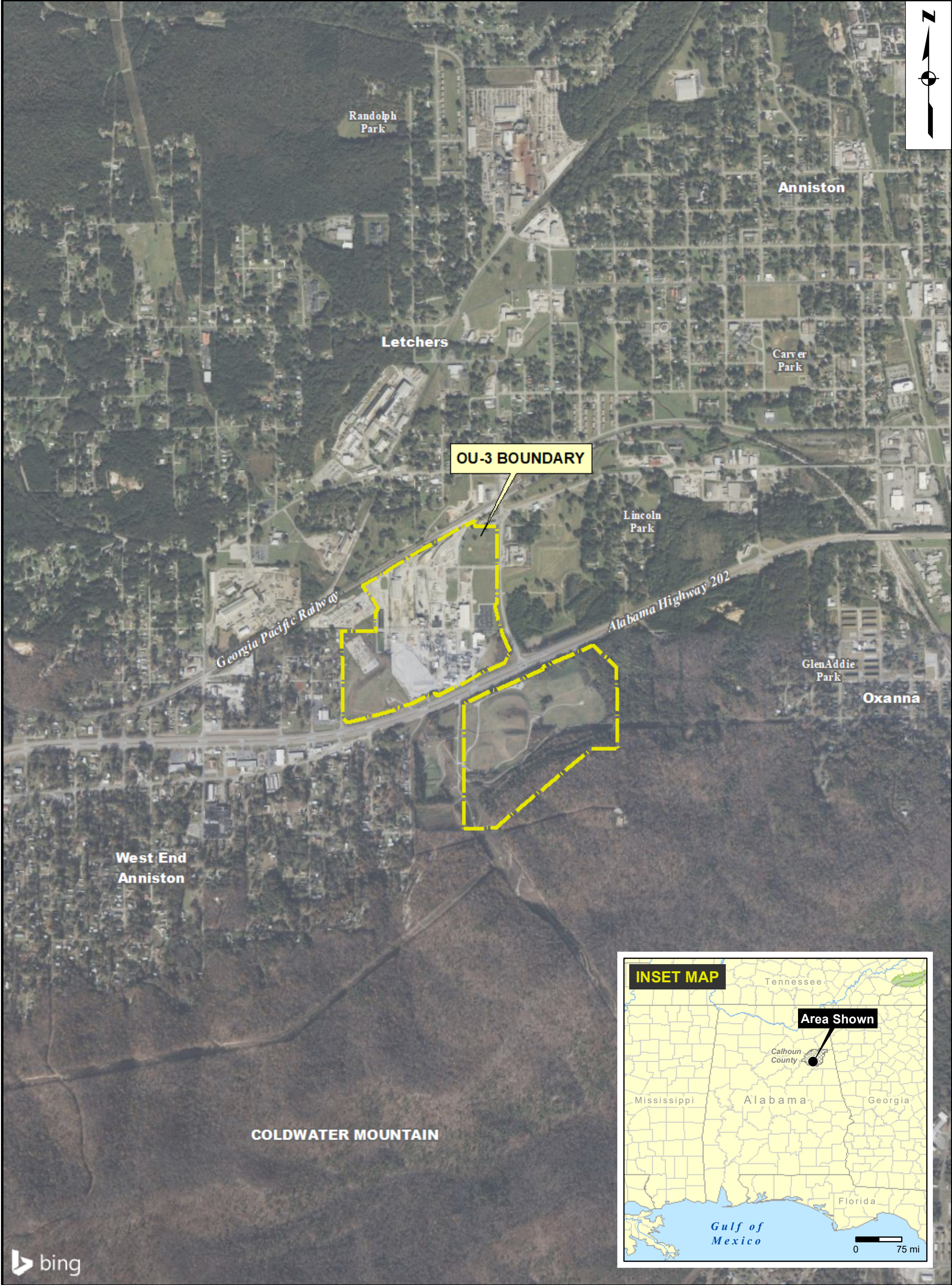
Figure 13. Results of 2023 RCRA Groundwater Corrective Action Monitoring at WMA II and SWMU I: Metals

Figure 14. Results of 2023 CERCLA Performance Verification Testing at OU-3: Volatile Organic Compounds

Figure 15. Results of 2023 CERCLA Performance Verification Testing at OU-3: Pesticides and Semi-Volatile Organic Compounds

Figure 16. Results of 2023 CERCLA Performance Verification Testing at OU-3: PCBs

Figure 17. Results of 2023 CERCLA Performance Verification Testing at OU-3: Metals



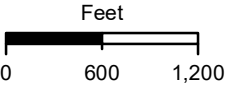
LEGEND



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>).



GSI Job No. 6917

Issued: 10-May-2024

Revised:

Map ID: 001_01

Drawn By: CDM

Reviewed By: WBS/JA

Approved By: TMM

FIGURE 1



SITE LOCATION MAP

2023 Annual Groundwater Detection Monitoring and
Corrective Action Effectiveness Report
Solutia Inc.
Anniston, Alabama

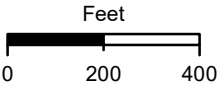


LEGEND

-  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>).



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



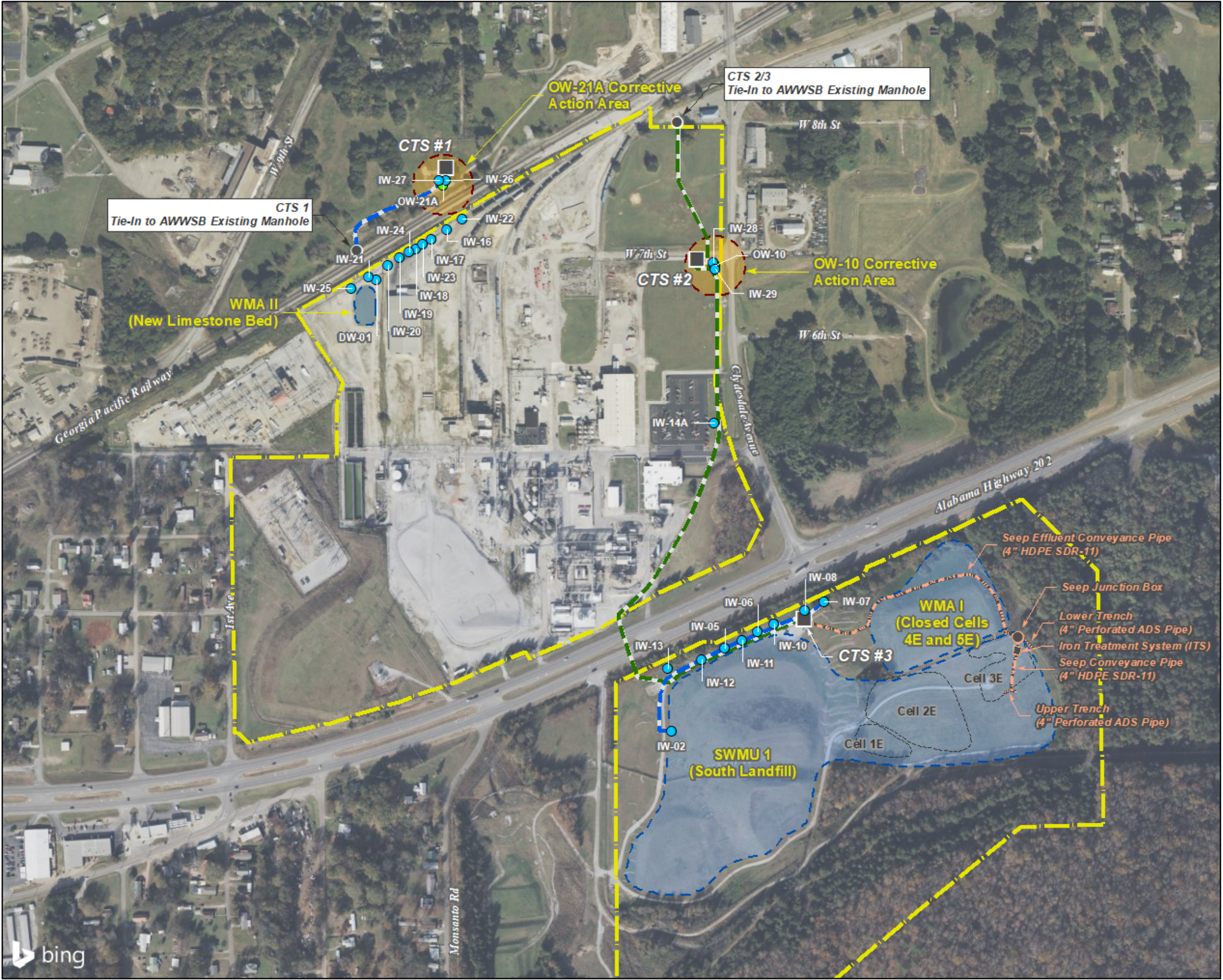
GROUNDWATER MONITORING AND
CORRECTIVE ACTION AREAS

2023 Annual Groundwater Detection Monitoring and
Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

Job No.	6917	Drawn By:	CDM
Issued:	10-May-2024	Chk'd By:	WBS
Map ID:	001_03	Appv'd By:	TMM

FIGURE 3

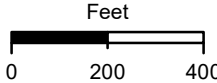


LEGEND

- 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>).



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



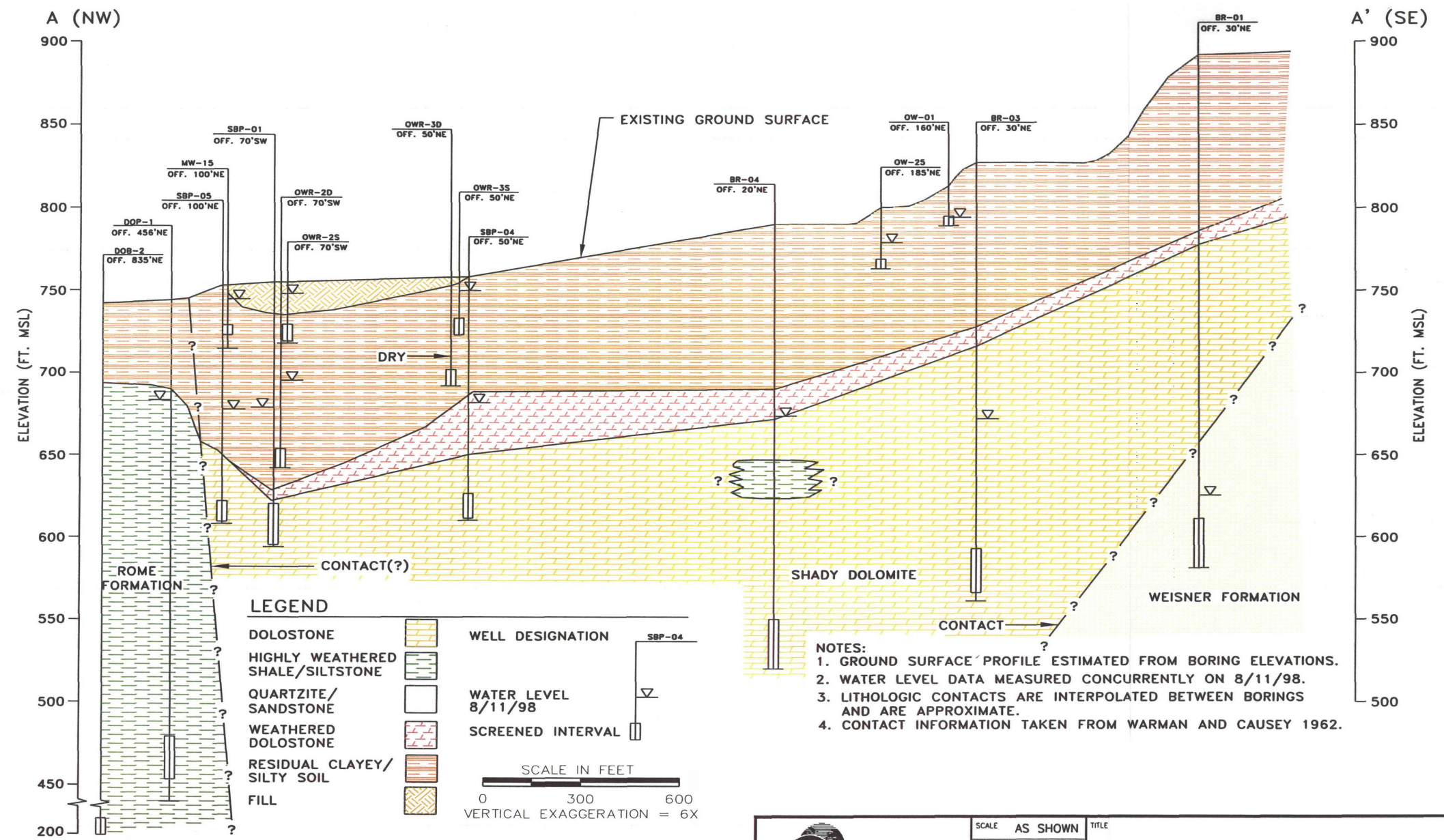
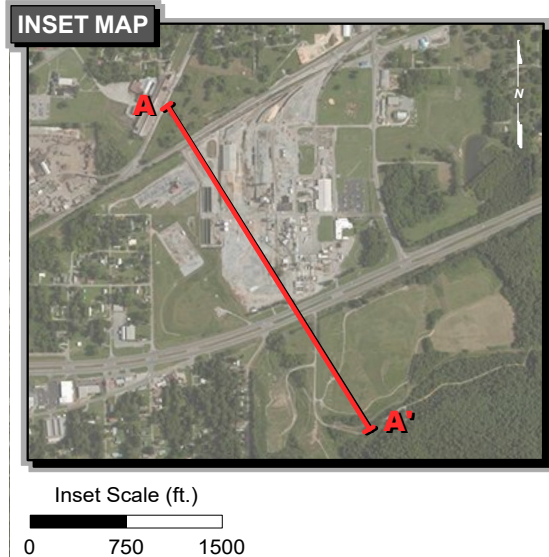
CORRECTIVE ACTION SYSTEMS

**2023 Annual Groundwater Detection Monitoring and
Corrective Action Effectiveness Report**

Solutia Inc.
Anniston, Alabama

GSI Job No.	6917	Drawn By:	CDM
Issued:	10-May-2024	Chk'd By:	WBS/JA
Map ID:	001_04	App'd By:	TMM

FIGURE 4



 Golder Associates Jacksonville, Florida	SCALE	AS SHOWN	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

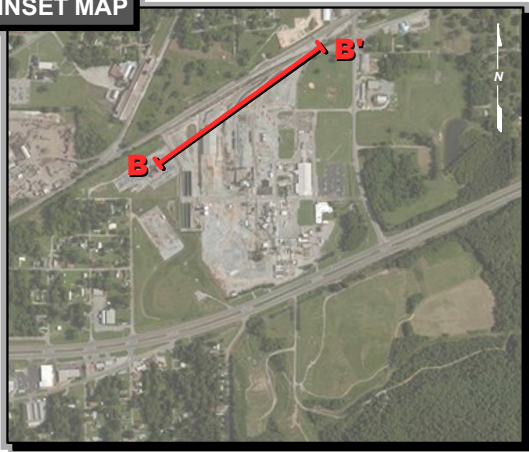
Source: Solutia, Inc., 2007. "RCRA Part B Post-Closure Permit Application," ALD 004 019 048, Revision 1, Anniston Facility, Alabama, March 2007.



GSI Job No.	6917	Drawn By:	CDM
Issued:	10-May-2024	Chk'd By:	WBS
Scale:	As Shown	Apr'd By:	TMM
Map ID:	001_05	FIGURE 5	

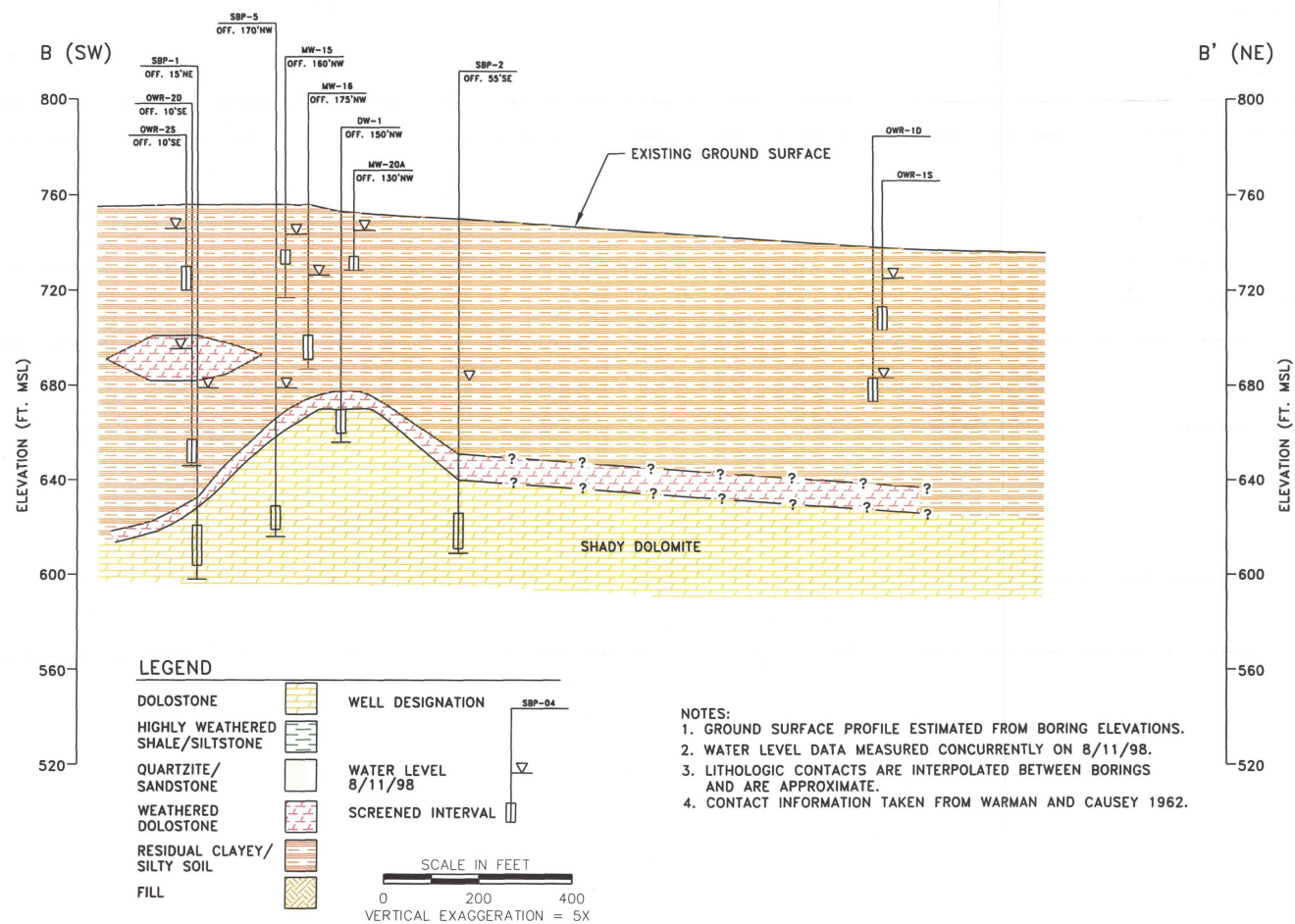
NORTH-SOUTH CROSS-SECTION
2023 Annual Groundwater Detection Monitoring and
Corrective Action Effectiveness Report
Solutia Inc.
Anniston, Alabama

INSET MAP



Inset Scale (ft.)

0 750 1500



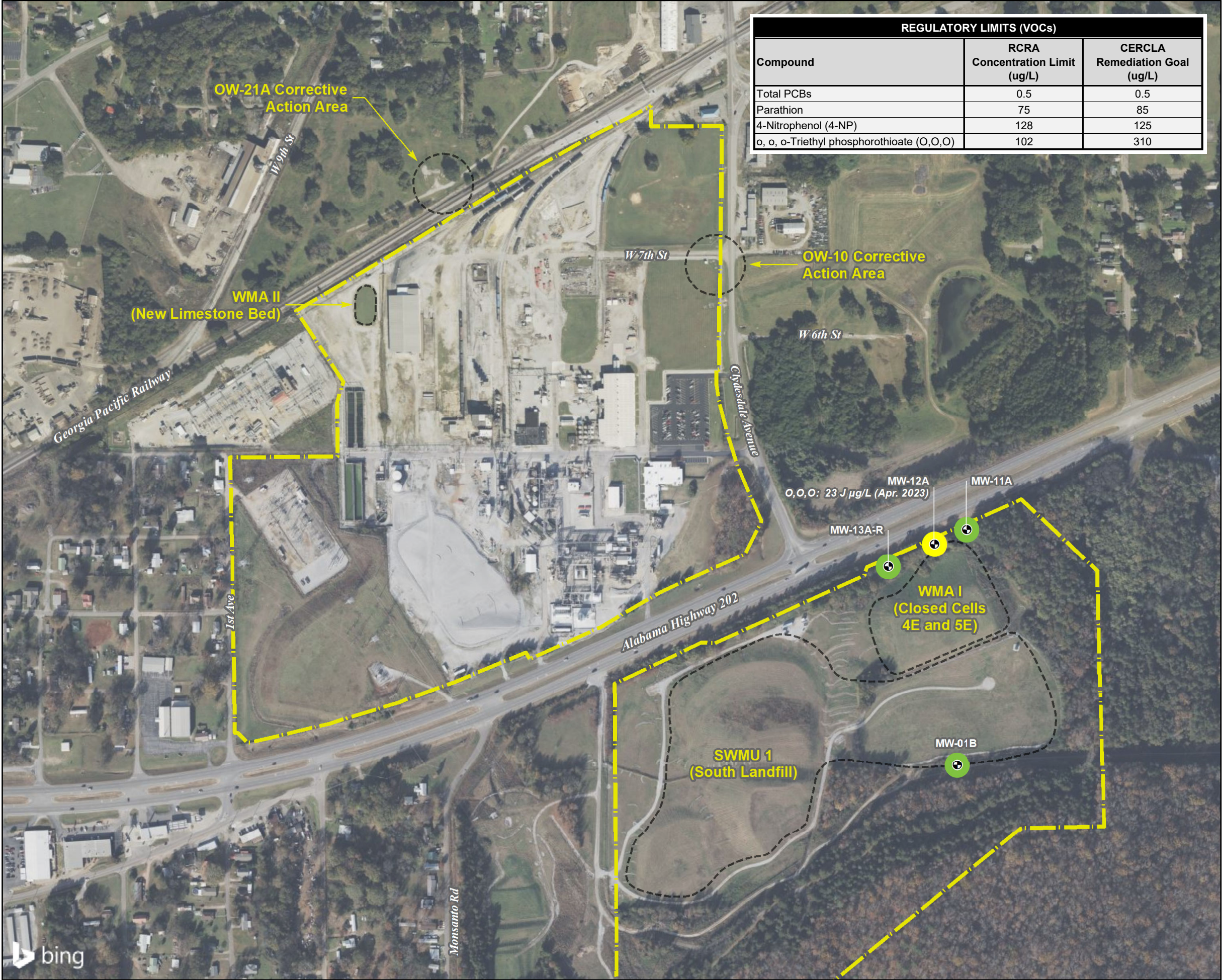
 Golder Associates Jacksonville, Florida	SCALE	AS SHOWN	TITLE HYDROGEOLOGIC CROSS SECTION B-B'
	DATE	07/06/06	
	DESIGN	DJM	
	CADD	MRM	
FILE No.	9433680C012		SOLUTION INC.
PROJECT No.	943-3680	REV. 0	
CHECK	[Signature] 3/13/07		FIGURE C-5
REVIEW	[Signature] 3/13/07		

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



GSI Job No.	6917	Drawn By:	CDM
Issued:	10-May-2024	Chk'd By:	WBS
Scale:	As Shown	Apr'd By:	TMM
Map ID:	001_06	FIGURE 6	

WEST-EAST CROSS-SECTION
2023 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-Triethyl phosphorothioate (O,O,O)	102	310

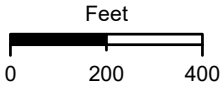


LEGEND

- 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

- MW-13A was sampled in April 2022. Its replacement well, MW-13A-R, was sampled in October 2022.
- Analytes: PCBs, parathion, 4-nitrophenol, and o, o, o-Triethyl phosphorothioate, samples from MW-01B also analyzed for cobalt, mercury, sulfotepp, 1,2-dichlorobenzene, 1,4-dichlorobenzene, and chlorobenzene.
- Approximate locations of site features shown.
- Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (<http://maps.bing.com>).



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



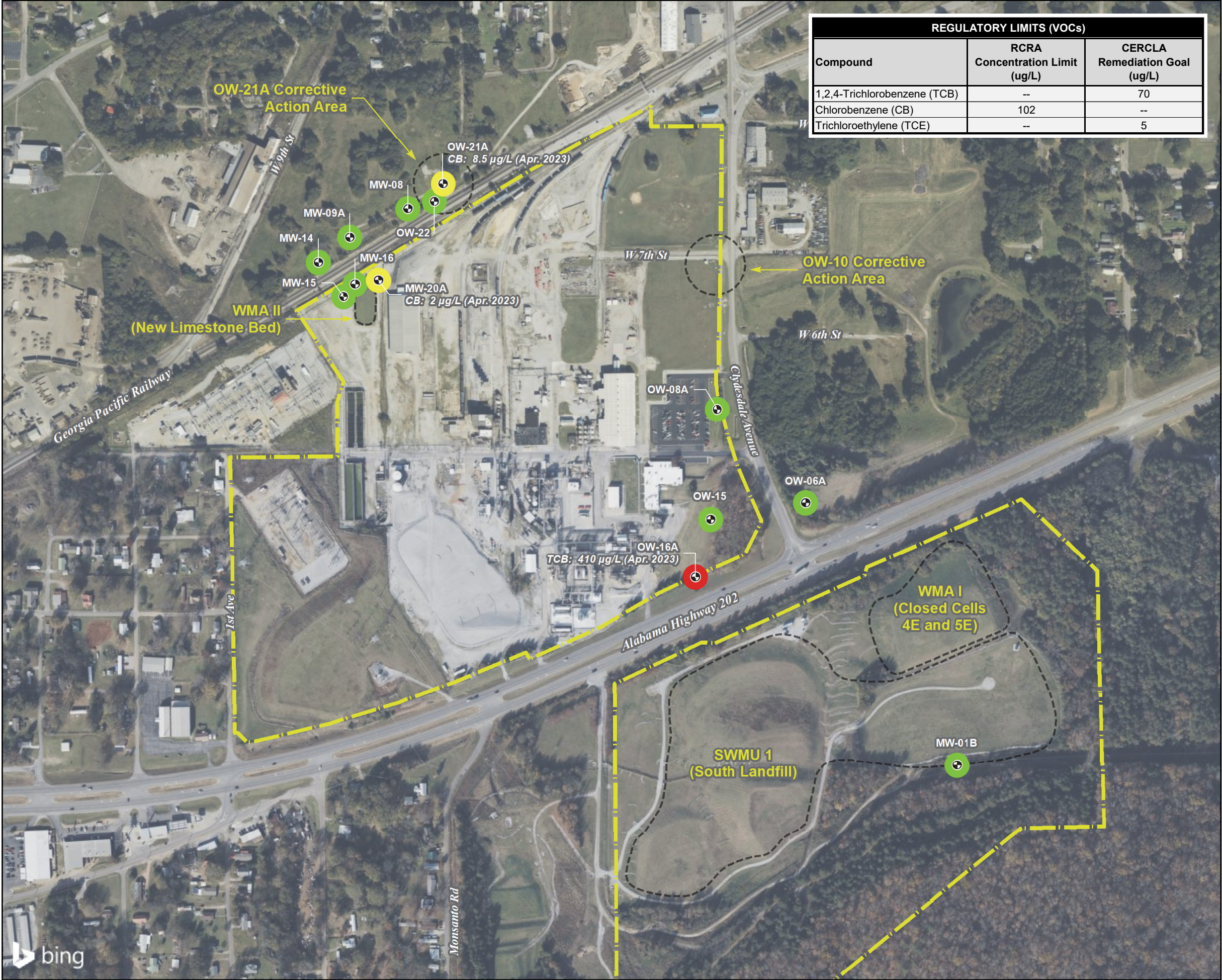
RESULTS OF 2023 RCRA GROUNDWATER DETECTION MONITORING AT WMA I

2023 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6917	Drawn By:	CDM
Issued:	10-May-2024	Chk'd By:	WBS/LCM
Map ID:	001_08	Appv'd By:	TMM

FIGURE 8



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

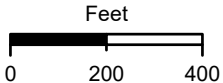


LEGEND

- Monitoring well
- VOCs not detected
- One or more VOCs detected below regulatory limits; 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

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



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



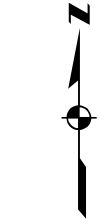
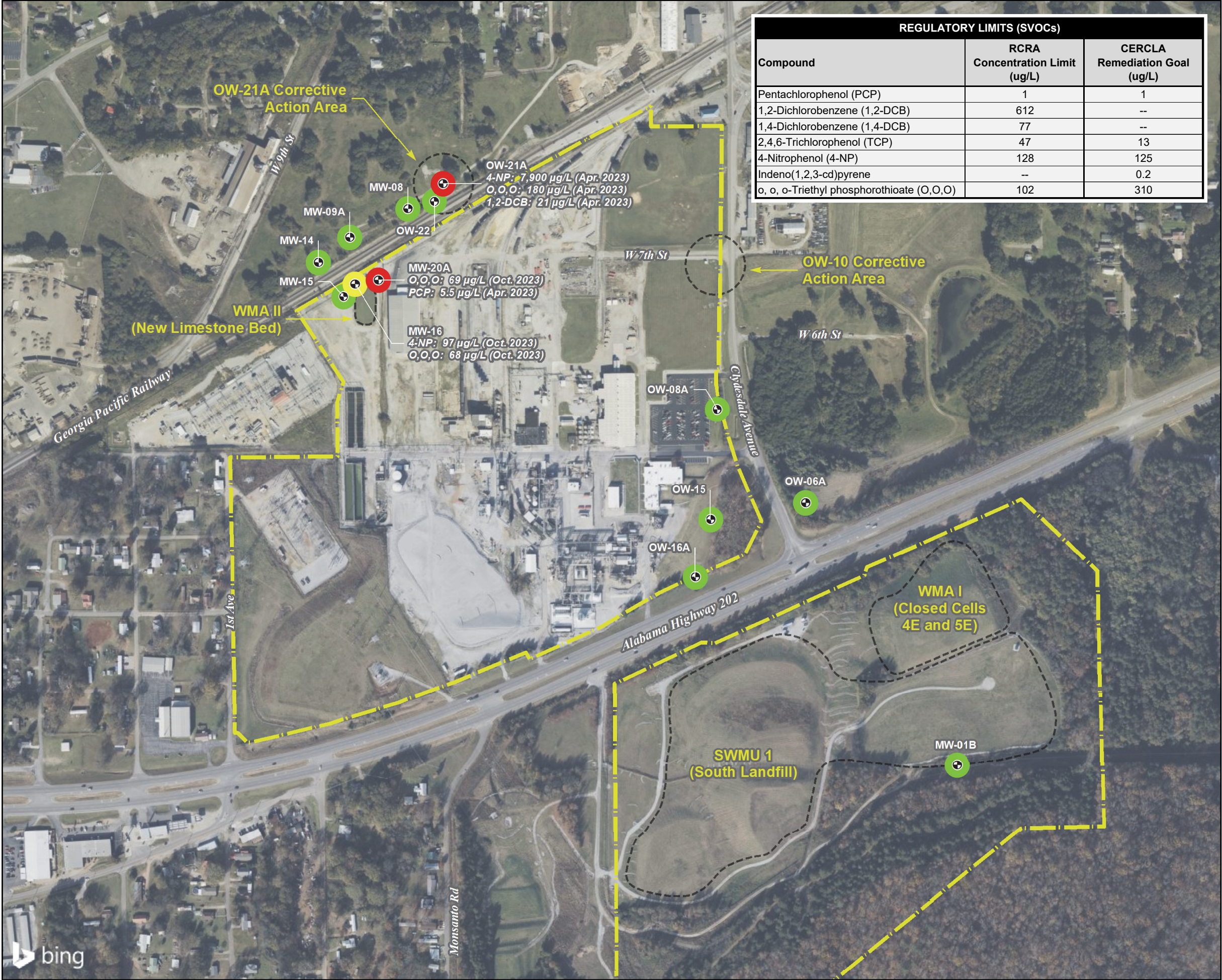
RESULTS OF 2023 RCRA GROUNDWATER CORRECTIVE ACTION MONITORING AT WMA II AND SWMU 1: VOLATILE ORGANIC COMPOUNDS

2023 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6917	Drawn By:	CDM
Issued:	10-May-2024	Chk'd By:	WBS/LCM
Map ID:	001_09	Appv'd By:	TMM

FIGURE 9

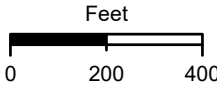


LEGEND

- 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

- SVOCs: Semi-Volatile Organic Compounds.
- 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-Triethyl phosphorothioate (O,O,O);.
- Approximate locations of site features shown.
- Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (<http://maps.bing.com>).



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



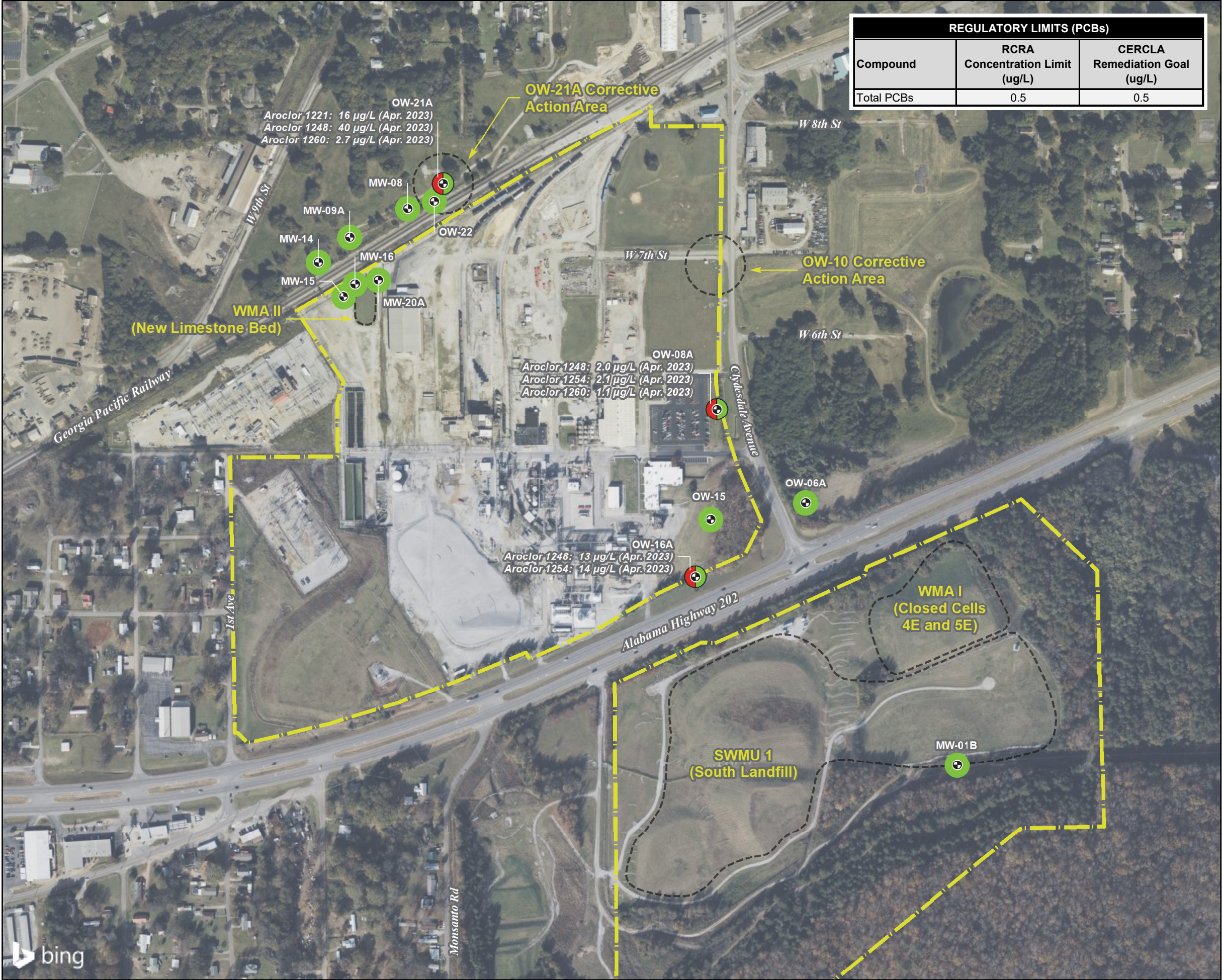
RESULTS OF 2023 RCRA GROUNDWATER
CORRECTIVE ACTION MONITORING AT WMA II AND
SWMU 1: SEMI-VOLATILE ORGANIC COMPOUNDS

2023 Annual Groundwater Detection Monitoring and
Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GIS Job No.	6917	Drawn By:	CDM
Issued:	10-May-2024	Chk'd By:	WBS/LCM
Map ID:	001_10	Appv'd By:	TMM

FIGURE 10



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

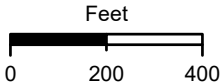


LEGEND

- Monitoring well
- PCBs not detected
- One or more PCBs detected below regulatory limits
- One or more PCBs detected above regulatory limits
- Filtered sample
- Unfiltered 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>).



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



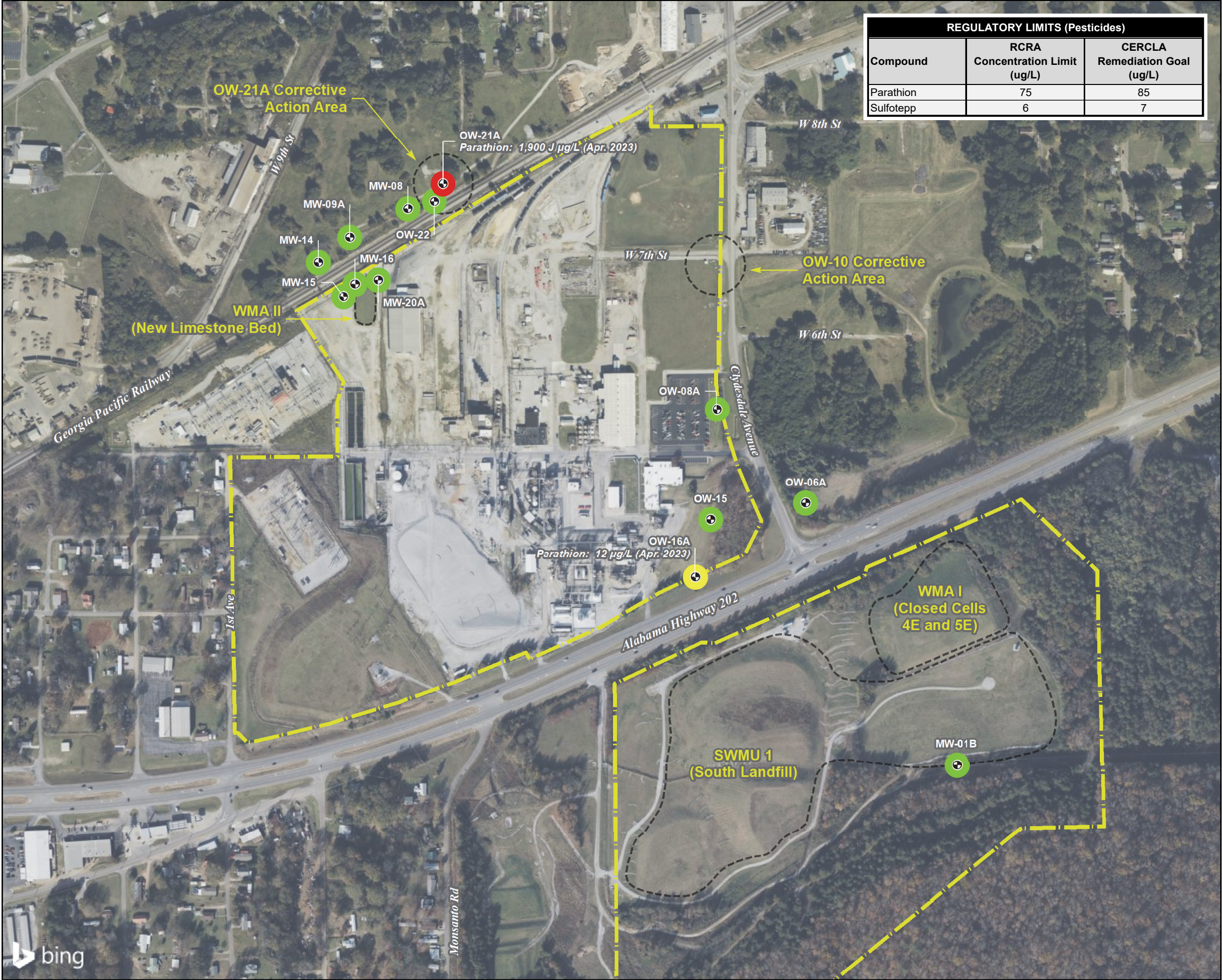
RESULTS OF 2023 RCRA GROUNDWATER
CORRECTIVE ACTION MONITORING AT
WMA II AND SWMU 1: PCBs

2023 Annual Groundwater Detection Monitoring and
Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6917	Drawn By:	CDM
Issued:	10-May-2024	Chk'd By:	WBS/LCM
Map ID:	001_11	Appv'd By:	TMM

FIGURE 11



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

- Analytes: Parathion, Sulfotepp.
- Approximate locations of site features shown.
- 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)



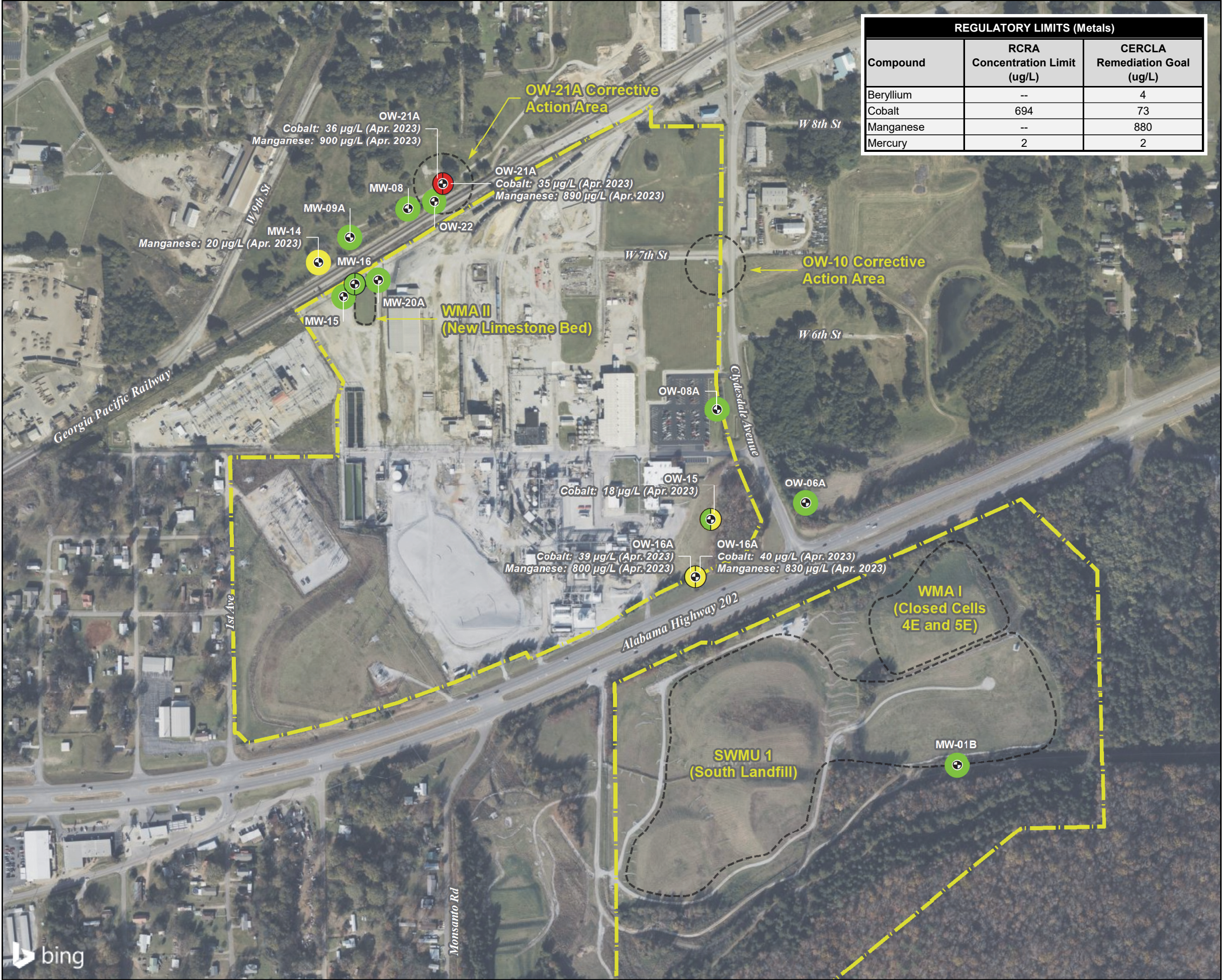
RESULTS OF 2023 RCRA GROUNDWATER CORRECTIVE ACTION MONITORING AT WMA II AND SWMU 1: PESTICIDES

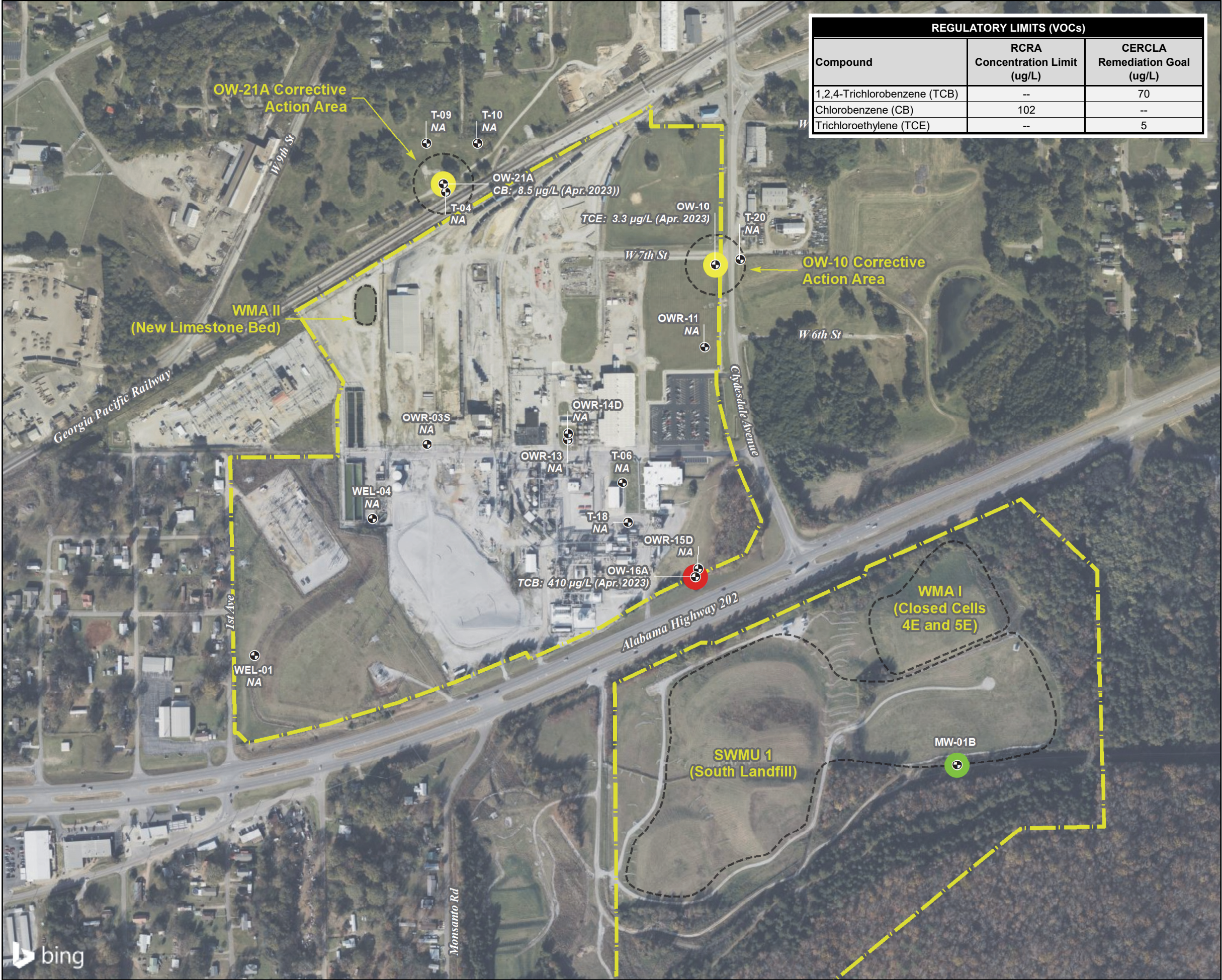
2023 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6917	Drawn By:	CDM
Issued:	10-May-2024	Chk'd By:	WBS/LCM
Map ID:	001_12	Appv'd By:	TMM

FIGURE 12



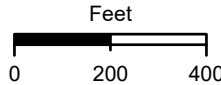


LEGEND

- 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

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



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



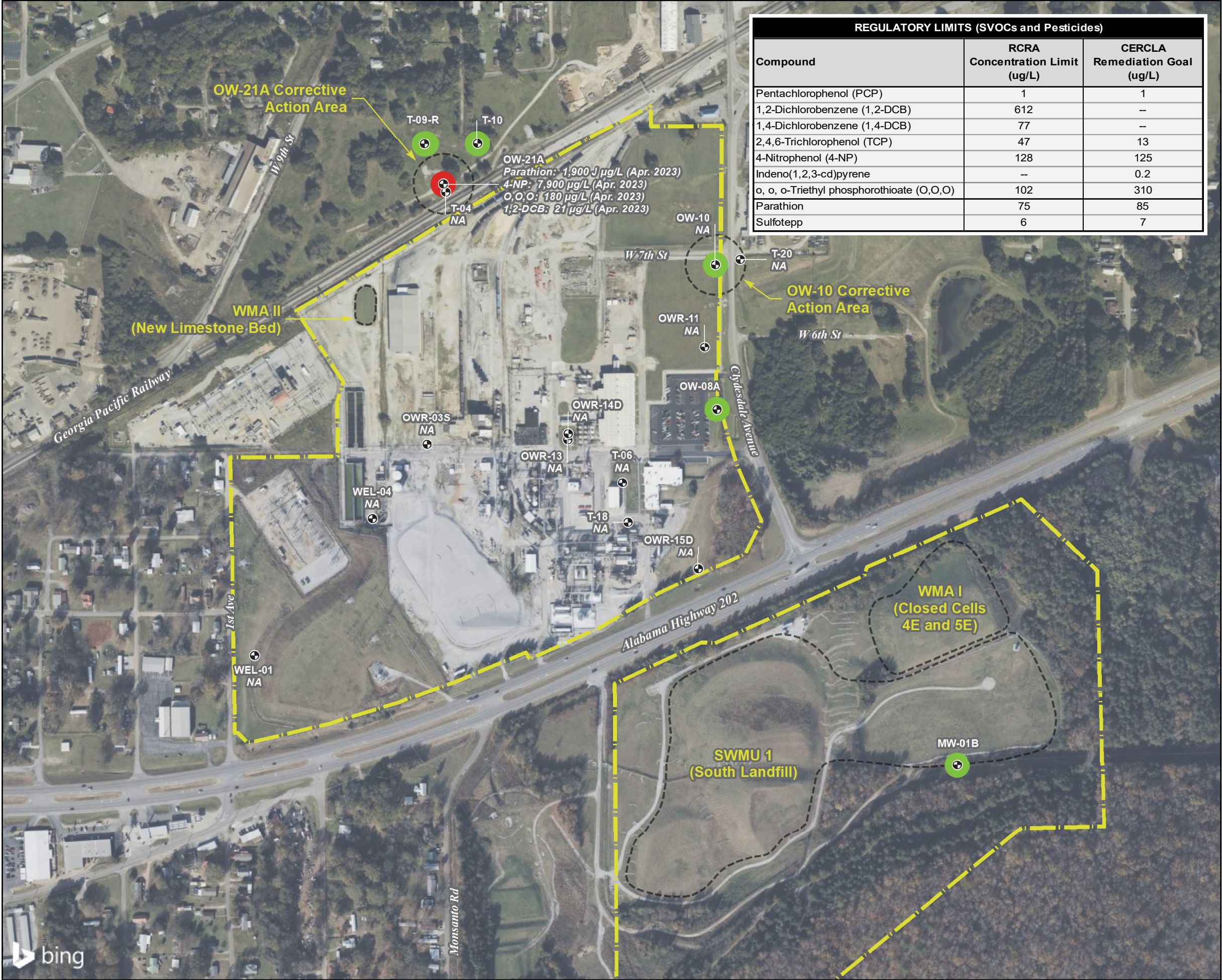
RESULTS OF 2023 CERCLA PERFORMANCE
VERIFICATION SAMPLING AT OU-3:
VOLATILE ORGANIC COMPOUNDS

2023 Annual Groundwater Detection Monitoring and
Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GIS Job No.	6917	Drawn By:	CDM
Issued:	10-May-2024	Chk'd By:	WBS/LCM
Map ID:	001_14	Appv'd By:	TMM

FIGURE 14

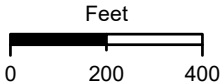


LEGEND

- Monitoring well
- SVOCs or pesticides 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

- SVOCs: Semi-Volatile Organic Compounds.
- 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-Triethyl phosphorothioate (O,O,O); Parathion; Sulfotepp.
- Samples from well OW-21A analyzed per the RCRA Groundwater Corrective Action Program.
- NA: Not Analyzed.
- Approximate locations of site features shown.
- Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (<http://maps.bing.com>).



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



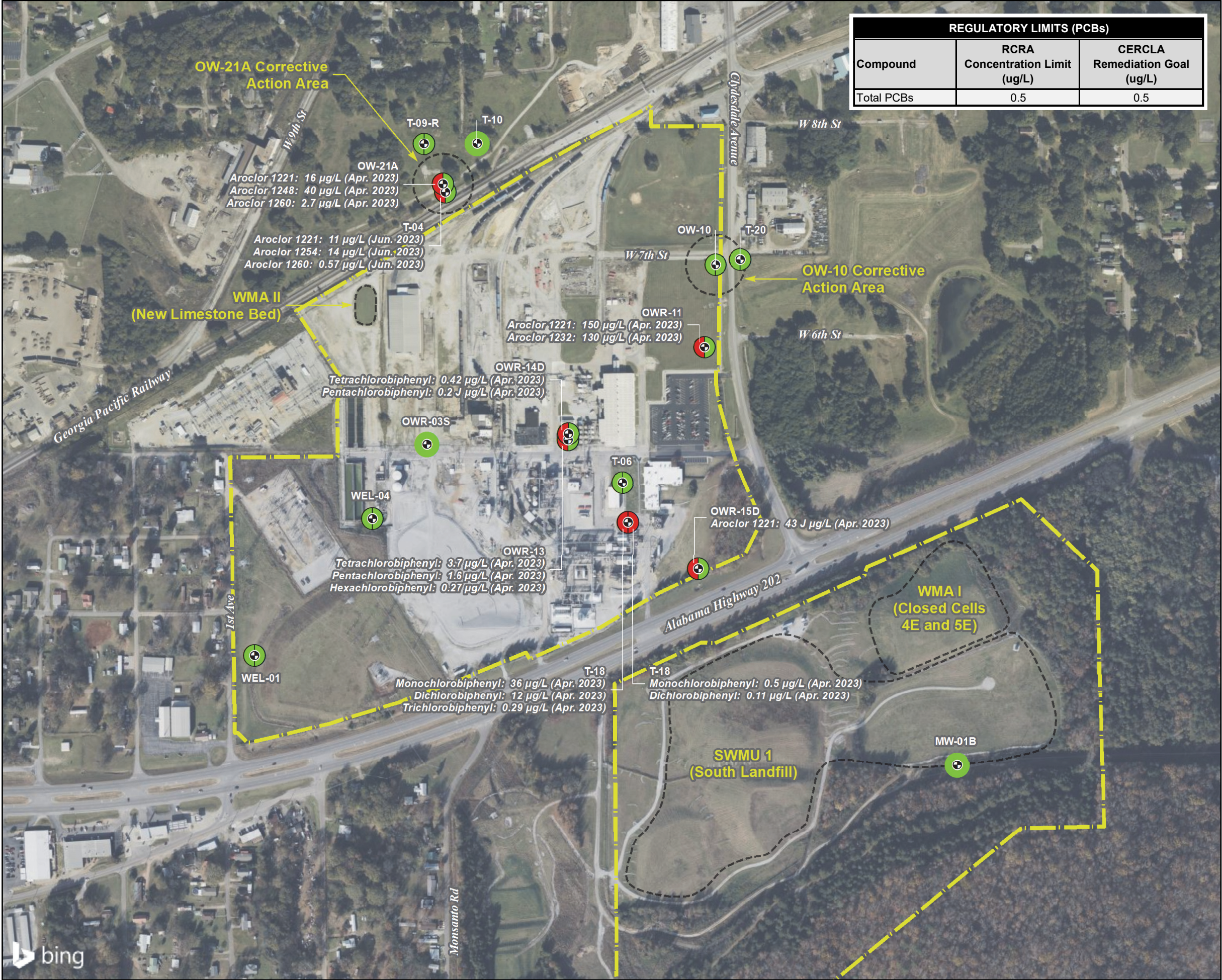
RESULTS OF 2023 CERCLA PERFORMANCE VERIFICATION SAMPLING AT OU-3: PESTICIDES AND SEMI-VOLATILE ORGANIC COMPOUNDS

2023 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6917	Drawn By:	CDM
Issued:	10-May-2024	Chk'd By:	WBS/LCM
Map ID:	001_15	Appv'd By:	TMM

FIGURE 15

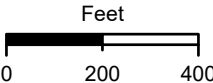


LEGEND

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

Notes

- Analytes: Polychlorinated Biphenyls (PCBs).
- Approximate locations of site features shown.
- Samples from well OW-21A analyzed per the RCRA Groundwater Corrective Action Program.
- 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.
- Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (<http://maps.bing.com>).



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



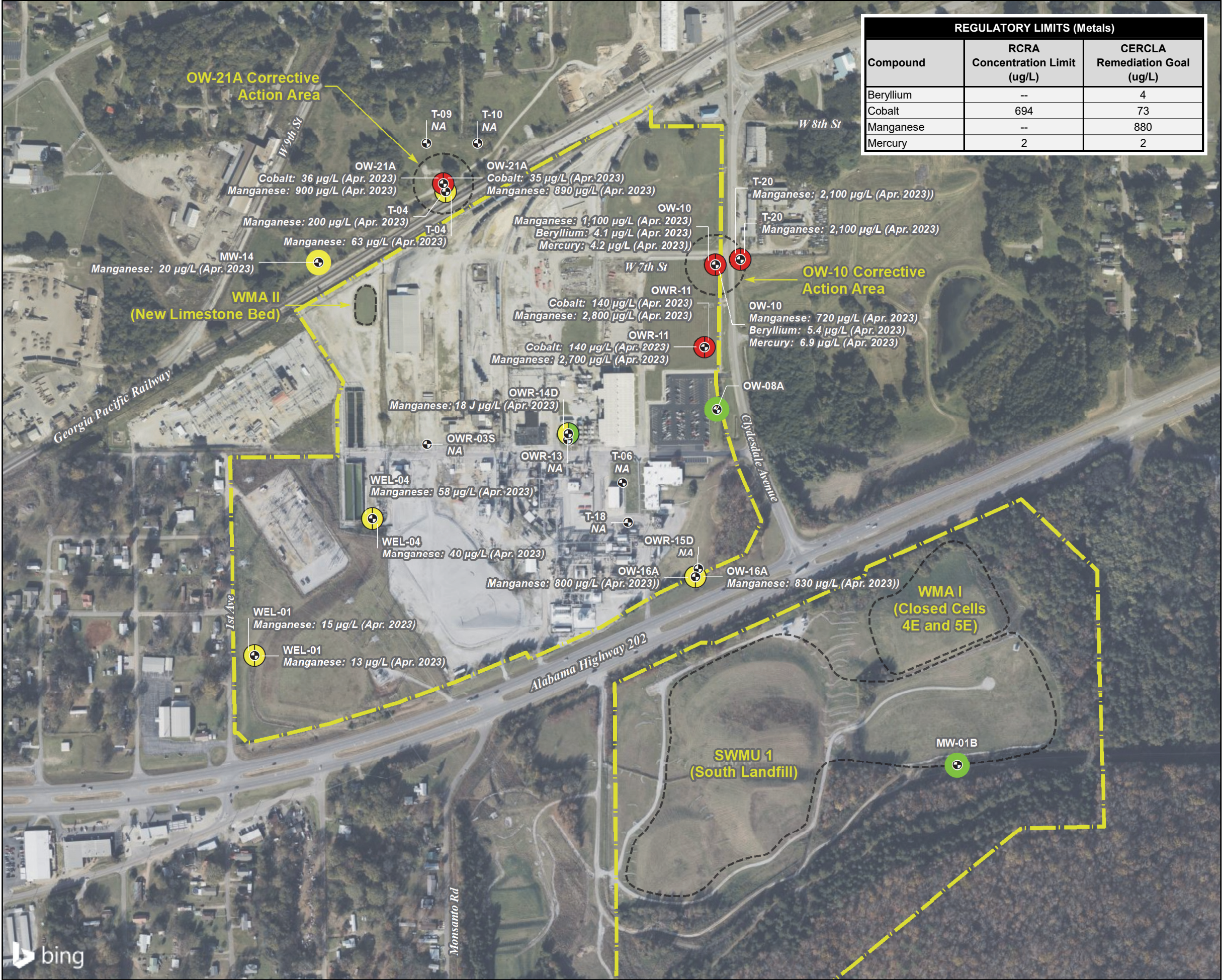
RESULTS OF 2023 CERCLA PERFORMANCE VERIFICATION SAMPLING AT OU-3: PCBs

2023 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6917	Drawn By:	CDM
Issued:	10-May-2024	Chk'd By:	WBS/LCM
Map ID:	001_16	Appv'd By:	TMM

FIGURE 16

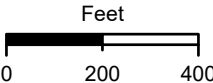


LEGEND

- Monitoring well
- Metals not detected
- One or more metals detected below regulatory limits
- One or more metals detected above regulatory limits
- Filtered sample
- Unfiltered 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, with the exception of Manganese, which is analyzed per CERCLA requirements and is compared to the CERCLA Remediation Goal.
3. Samples from well OW-21A analyzed per the RCRA Groundwater Corrective Action Program.
4. NA: Not Analyzed.
5. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (<http://maps.bing.com>).



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



RESULTS OF 2023 CERCLA PERFORMANCE VERIFICATION SAMPLING AT OU-3: METALS

2023 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GIS Job No.	6917	Drawn By:	CDM
Issued:	10-May-2024	Chk'd By:	WBS/LCM
Map ID:	001_17	Appv'd By:	TMM

FIGURE 17

**2023 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

**2023 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

Appendix A. Well Construction Specifications

APPENDIX 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 3)	Easting (Note 3)	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-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-06A	1146212.04	650662.41	March 1998	788.93	791.60	2.7	2.8	0.1	49	39	49	51.8	10	749.85	739.85	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-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-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-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-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-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-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
West End Landfill Wells																
WEL-01	1145603.01	648369.42	April 1994	777.42	778.75	1.3	1.4	0.1	31.5	19	29	30.6	10	758.17	748.17	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
Monitoring Wells																
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-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-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-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-13A-R	1145945.48	651000.92	October 2022	779.30	782.15	2.9	2.9	0.0	112	105	110	112.9	5	674.30	669.30	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
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																
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
T Wells																
T-01	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-02	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-03	1146620.52	650515.41	June 2005	745.39	746.13	0.7	0.9	0.2	25	15	25	26.0	10	730.13	720.13	Residuum
T-04	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-06	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-09-R	1147712.81	649096.86	July 2023	742.09	745.93	3.8	3.8	0.0	39	27	37	40.8	10	715.09	705.09	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	1147218.81	650404.15	December 2013	731.32	731.53	0.2	NA	NA	40	27.5	37.5	37.2	10	704.36	694.36	Residuum

APPENDIX 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 3)	Easting (Note 3)	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
RFI Observation Wells																
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-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-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-09S	1147320.03	651456.59	June 1998	751.28	753.16	1.9	1.9	0.0	50	40	50	52.4	10	710.77	700.77	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
Eastside Properties																
EP-MW-01	1146636.14	651039.85	October 2022	745.66	747.76	2.1	NA	NA	30	15	25	27.1	10	730.66	720.66	Residuum
EP-MW-02	1146670.65	650999.23	October 2022	742.37	744.38	2.0	NA	NA	30.5	12	22	24.0	10	730.37	720.37	Residuum
EP-PZ-01	1146630.15	650946.46	October 2022	742.51	745.64	3.1	NA	NA	27	13	23	26.1	10	729.51	719.51	Residuum
EP-PZ-02	1146595.43	650998.08	October 2022	741.85	744.57	2.7	NA	NA	25.5	11	21	23.7	10	730.85	720.85	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
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

APPENDIX 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 3)	Easting (Note 3)	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																
BR-01 (Notes 5, 8)	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 (Notes 5, 8)	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 (Notes 5, 8)	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 (Note 8)	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 (Notes 4, 8)	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
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
DOP-01 (Note 8)	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
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-01 (Note 8)	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 (Note 8)	1145095.00	651231.00	May 1985	NS	884.49	NA	NA	NA	56	51	56	NA	5	NA	NA	Residuum
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-07 (Note 8)	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-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-11 (Note 8)	1146061.00	651309.00	May 1985	NS	783.74	NA	NA	NA	29	24	29	NA	5	NA	NA	Residuum
MW-12 (Note 8)	1146004.00	651179.00	May 1985	NS	785.77	NA	NA	NA	28	23	28	NA	5	NA	NA	Residuum
MW-13 (Note 8)	1145913.00	650962.00	May 1985	NS	782.24	NA	NA	NA	29	24	29	NA	5	NA	NA	Residuum
MW-13A (Note 9)	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-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-01 (Notes 5, 8)	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-05 (Notes 5, 8)	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-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-07 (Notes 5, 8)	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-08	1146604.44	650304.69	May 1985	NA	NA	NA	NA	NA	24	19	24	NA	5	NA	NA	Abandoned
OW-09 (Note 8)	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-11 (Notes 5, 8)	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 (Notes 5, 8)	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 (Notes 5, 8)	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 (Notes 5, 8)	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-16 (Notes 5, 8)	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-17 (Notes 5, 8)	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 (Note 8)	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-20 (Note 8)	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-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
OW-23 (Note 8)	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-25 (Note 8)	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
OWR-01D (Note 8)	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-02D (Note 8)	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-03D (Note 8)	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

APPENDIX 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 3)	Easting (Note 3)	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)																
OWR-04D (Note 8)	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 (Note 8)	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 (Note 8)	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 (Note 8)	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
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
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-08 (Notes 4, 8)	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 (Notes 4, 8)	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 (Notes 4, 8)	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 (Notes 4, 8)	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
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
PZR-01 (Note 8)	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 (Note 8)	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 (Note 8)	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 (Note 8)	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 (Note 8)	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 (Note 8)	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
SA-06 (Notes 4, 8)	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 (Notes 4, 8)	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 (Notes 4, 8)	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) (Notes 5, 8)	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
SBP-01 (Note 8)	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 (Note 8)	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 (Note 8)	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 (Note 8)	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 (Note 8)	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
T-05 (Note 8)	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-08	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-09 (Note 10)	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-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



APPENDIX 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 3)	Easting (Note 3)	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)																
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
WEL-02 (Note 8)	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 (Note 8)	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

- 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

3. Northing and Easting reported for State Plane Alabama East (FIPS 0101 Feet)

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).

8. Well plugged and abandoned between June and September 2021.

9. Well plugged and abandoned October 2022.

9. Well plugged and abandoned July 2023.

NA = Not Available

NS = Not Surveyed

RFI = Resource Conservation Recovery Act (RCRA) Facility Investigation

SSSMA = South Staging and Soil Management Area

**2023 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

Appendix B. Purging Logs

SPRING 2023 PURGING LOGS

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LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: <u>6495</u>	Date: <u>4/11/23</u>	Personnel: <u>EGK, JSC</u>
Project: <u>Anniston April Sampling</u>	Client: <u>Solutia</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>MW-01B</u>	Starting Water Level: <u>28.09</u>	Time: <u>1408</u> <i>transducer</i>
	<u>28.06</u>	<u>1433</u> <i>sample</i>
Total Depth: <u>65.54</u>	Ending Water Level: <u>39.30</u>	Time: <u>1523</u>

Purging Time: On: <u>1437</u>	Evacuation Method: <u>low flow dedicated bladder pump</u>
Off: <u>1527</u>	Volume in Well (gallons): <u>5.7</u>
Well Depth: <u>64</u>	Evacuation Rate (gal/min): <u>0.04</u>
Screen Depth: <u>57.5 - 62.5</u>	Total Volume Removed (gallons): <u>1.75</u>

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)
1447	30.31	75	18.94	5.01	24.5	0.01	7.54	193.8	mostly clear, no odor
1450	31.92	300	17.46	4.74	73.0	0.01	8.65	225.2	partly cloudy, no odor
1455	32.87	150	17.90	4.70	92.9	0.01	8.79	245.2	" "
1500	33.90	150	17.88	4.69	84.6	0.01	8.54	253.9	" "
1505	35.04	150	17.81	4.70	95.0	0.01	8.46	260.1	" "
1510	36.49	150	17.73	4.70	92.0	0.01	8.21	257.20	" "
1515	37.49	150	17.74	4.72	88.5	0.01	8.01	269.0	" "
1520	38.60	150	17.64	4.75	84.5	0.01	7.89	269.4	" "
1523	39.30	150	17.63	4.79	83.9	0.01	7.76	269.3	" "

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:

CPMH D:10 PSI @ 110
F:5

WLM ID: 01137

LOW FLOW MONITORING WELL PURGING LOG

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.:	6495/6/7	Date:	4/13/2023	Personnel:	JSC, JA
Project:	Solutia/Eastman Anniston	Client:	Solutia	Page:	1 of 1
Well ID:	MW-9A	Starting Water Level:	16.52	Time:	1426
Total Depth:	36.20	Ending Water Level:	17.40	Time:	1549
Purging Time:	1428	Evacuation Method:	dedicated bladder pump		
On:	1549	Volume in Well (gallons):	3.14 gal		
Off:	36 ft bto c	Evacuation Rate (gal/min):	0.06 gal/min		
Well Depth:	23-33 ft bgs	Total Volume Removed (gallons):	3 gal (non-consecutive)		
Screen Depth:					

PURGING DATA AND FIELD PARAMETERS

[illegible]

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:

Started & stopped due to issue with turbidity
meter

LOW FLOW MONITORING WELL PURGING LOG

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: <u>6495/6/7</u>	Date: <u>4/15/23</u>	Personnel: <u>JSC</u>
Project: <u>Eastman Solution Anniston</u>	Client: <u>Solution</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>MW-12A</u>	Starting Water Level: <u>92.95</u>	Time: <u>1106</u>
Total Depth: <u>115.32</u>	Ending Water Level: <u>93.19</u>	Time: <u>1224</u>
Purging Time: <u>1117</u>	Evacuation Method: <u>dedicated bladder pump</u>	
On: <u>1208</u>	Volume in Well (gallons): <u>3.6</u>	
Off: <u>1224</u>	Evacuation Rate (gal/min): <u>0.052</u>	
Well Depth: <u>112</u>	Total Volume Removed (gallons): <u>3.5</u>	
Screen Depth: <u>105 - 110</u>		

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)
1119	93.08	150	18.86	7.57	5.51	331.27	7.68	190.0	clear no odor
1124	93.09	125	18.74	7.54	5.43	327.15	8.18	190.6	clear no odor
1129	93.06	225	17.89	7.57	5.75	337.19	7.46	190.0	
1134	93.15	225	17.82	7.60	9.70	352.99	5.10	188.2	
1139	93.15	225	17.92	7.66	5.96	330.53	4.40	188.1	
1144	93.18	225	17.73	7.66	6.18	322.15	4.08	167.2	
1149	93.18	225	17.74	7.66	3.80	318.12	3.96	139.8	
1154	93.23	225	17.71	7.66	2.99	314.91	3.86	103.7	
1159	93.20	225	17.58	7.70	3.17	315.66	3.83	62.1	
1204	93.16	225	17.65	7.70	3.46	315.03	3.81	59.4	
1209	93.13	225	17.63	7.67	2.82	312.18	3.78	39.8	
1214	93.18	225	17.44	7.66	2.15	312.34	3.76	44.0	
1219	93.20	225	17.59	7.60	2.19	310.57	3.78	50.0	
1224	93.19	225	17.52	7.63	2.61	309.17	3.75	46.4	

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:

CPM3, 140 ft pressure

used WLM D1201. Deconned & isolated before use at MW-12A.

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6495 Date: 4/11/23 - 4/12/23 Personnel: JA
Project: RCRA Semi-Annual GW Client: Solutia Page: 1 of 2

Well ID: MW-13A-R Starting Water Level: 90.40 Time: 1823 (4/11)
Total Depth: 117.69 Ending Water Level: 90.33 Time: 802 (4/12)
Time: 4/12/23

Purging Time: (4/11) 1823 | (4/12) 802
On: 1958 | 922
Off: 1958 | 922
Evacuation Method: dedicated bladder pump
Volume in Well (gallons): 3.136 gallons
Well Depth: ~110 ft bgs Evacuation Rate (gal/min): 0.05 gallons/min
Screen Depth: ~100-110 ft bgs 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)
1823	90.40	200	18.04	8.73	2.54	0.30	9.23	15.2	clear/none
1828	90.40	200	18.05	8.75	0.58	0.30	9.17	18.7	" "
1833	90.40	200	17.89	8.78	0.32	0.31	7.09	25.7	" "
1838	90.40	200	17.59	8.69	54.6	0.32	4.66	27.0	small particles/
1843	90.40	200	17.28	9.15	107	0.32	3.87	10.1	" "
1848	90.40	200	17.26	9.27	99.0	0.32	3.65	7.5	" "
1853	90.40	200	17.23	9.09	70.1	0.32	3.59	17.9	" "
1858	90.40	200	17.14	8.91	51.6	0.32	3.62	27.3	" "
1903	90.40	200	17.11	8.60	48.6	0.32	3.70	43.6	" "
1908	90.40	200	17.01	8.39	39.0	0.32	3.83	55.2	clear/none
1913	90.40	200	16.99	8.37	35.0	0.32	3.85	55.9	" "
1933	90.40	200	16.90	8.36	22.8	0.32	4.21	63.1	" "
1943	90.40	200	16.89	8.37	20.0	0.31	4.28	64.5	" "
1948	90.40	200	16.89	8.39	16.8	0.31	4.31	65.2	" "
1953	90.40	200	16.88	8.39	17.4	0.31	4.40	65.3	" "
1958	90.40	200	16.90	8.41	21.5	0.31	4.51	66.5	" "
2003	WILL RETURN TOMORROW								
Begin 4/12/23 purge, starting SWL:							90.33		

WLM
D1202

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:

CPM 2
6 sec discharge
~110 ft pressure

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6495 Date: 4/11/23 - 4/12/23 Personnel: JA
 Project: RCPA Semi-Annual GW Client: Solutia Page: 2 of 2

Well ID: MW-13A-R Starting Water Level: _____ Time: _____
 Ending Water Level: _____ Time: _____
 Total Depth: _____

Purging Time: _____ Evacuation Method: _____
 On: _____
 Off: _____ Volume in Well (gallons): _____
 Well Depth: _____ Evacuation Rate (gal/min): _____
 Screen Depth: _____ Total Volume Removed (gallons): _____

see page 1

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)
802	90.34	200	16.22	8.08	15.3	0.33	5.83	181.4	clear, none
807	90.34	200	16.41	8.00	7.50	0.33	5.47	175.5	" "
812	90.34	200	16.52	7.88	30.2	0.32	5.11	171.6	" "
817	90.34	200	16.50	7.81	34.1	0.31	4.78	170.7	" "
822	90.34	200	16.64	7.82	20.7	0.31	4.53	165.0	" "
827	90.35	200	16.52	7.83	16.4	0.31	4.54	165.7	" "
832	90.34	150	16.47	7.83	12.2	0.31	4.55	171.7	" "
837	90.34	150	16.49	7.83	12.4	0.31	4.55	170.7	" "
842	90.34	150	16.50	7.83	9.63	0.31	4.54	172.7	" "
847	90.33	150	16.54	7.82	9.77	0.31	4.52	177.9	" "
852	90.30	150	16.60	7.79	7.53	0.31	4.50	177.4	" "
857	90.29	150	16.63	7.79	5.90	0.31	4.51	179.2	" "
902	90.27	150	16.69	7.76	4.48	0.30	4.33	175.0	" "
907	90.25	150	16.74	7.69	4.95	0.30	4.26	174.9	" "
912	90.21	150	16.74	7.67	4.70	0.30	4.28	176.1	" "
917	90.19	150	16.76	7.64	5.33	0.30	4.23	174.8	" "
922	90.18	150	16.89	7.62	5.57	0.30	4.24	178.3	" "

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:

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: <u>10495</u>	Date: <u>4/15/23</u>	Personnel: <u>JA</u>
Project: <u>RCRA GW Sampling</u>	Client: <u>Solution</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>MW-14</u>	Starting Water Level: <u>10.33</u>	Time: <u>1035</u>
Total Depth: <u>26.66</u>	Ending Water Level: <u>15.10</u>	Time: <u>1113</u>

Purging Time: On: <u>1040</u>	Evacuation Method: <u>dedicated bladder pump</u>
Off: <u>1113</u>	Volume in Well (gallons): <u>2.54</u> gallons
Well Depth: <u>26.2 ft bto c</u>	Evacuation Rate (gal/min): <u>0.06</u> gallons/min
Screen Depth: <u>19-24 ft bgs</u>	Total Volume Removed (gallons): <u>2</u> 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)
1040	12.35	200	18.46	6.94	8.27	0.21	0.81	207.8	clear, none
1043	13.50	175	18.63	7.06	11.4	0.21	0.95	205.4	" "
1046	13.24	175	18.66	7.07	24.9	0.21	1.00	204.0	" "
1049	13.35	175	18.65	7.13	40.5	0.21	0.77	205.9	" "
1052	13.57	250	18.48	7.14	46.9	0.21	0.51	201.1	" "
1055	14.30	250	18.38	7.19	73.5	0.21	0.33	204.7	" "
1058	14.60	200	18.40	7.21	98.8	0.21	0.33	203.0	" "
1101	15.07	200	18.48	7.30	252	0.21	0.30	205.0	cloudy "
1104	15.12	200	18.49	7.26	290	0.21	0.31	201.1	" "
1107	15.10	200	18.61	7.29	420	0.21	0.32	205.1	" "
1110	15.11	200	18.59	7.26	444	0.21	0.32	204.2	" "
1113	15.10	200	18.59	7.30	448	0.21	0.31	206.5	" "

WLM
D1137

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:

LOW FLOW MONITORING WELL PURGING LOG

LOW FLOW MONITORING WELL PURGING LOG



Purging Time:	925	Evacuation Method:	dedicated bladder pump
On:			
Off:	1005	Volume in Well (gallons):	2.75 gallons
Well Depth:	25.3 ft bblc	Evacuation Rate (gal/min):	0.05 gallons/min
Screen Depth:	19-24 ft bgs	Total Volume Removed (gallons):	2 gallons

Notes:

Notes:

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6495 Date: 4/16/23 Personnel: JA
 Project: RCRA GW Sampling Client: Solutia Page: 1 of 1
 Well ID: OW-000A Starting Water Level: 8.46 Time: 1025
 Total Depth: 25.30 Ending Water Level: 8.57 Time: 1103

Purging Time: 1039 Evacuation Method: dedicated bladder pump
 On: 1103 Volume in Well (gallons): 2.71 gallons
 Off: 1103 Evacuation Rate (gal/min): 0.05 gallons/min
 Well Depth: 25.4 ft btoe Total Volume Removed (gallons): 1.3 gallons
 Screen Depth: 12.5-22.5 ft bgs

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)
1039	8.75	200	18.26	6.93	110	0.22	4.03	206.8	clear, none
1042	8.59	200	18.58	6.82	27.6	0.21	4.36	203.0	" "
1045	8.57	200	18.50	6.80	28.8	0.22	4.23	202.2	" "
1048	8.57	200	18.76	6.76	24.6	0.22	4.23	199.9	" "
1051	8.59	200	18.60	6.76	20.7	0.22	4.12	200.0	" "
1054	8.59	200	18.59	6.75	22.5	0.22	4.12	196.7	" "
1057	8.58	200	18.61	6.76	7.10	0.22	4.12	194.6	" "
1100	8.58	200	18.74	6.79	7.87	0.22	4.14	192.7	" "
1103	8.57	200	18.65	6.78	5.21	0.22	4.15	194.0	" "

WLM
D1137

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:

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6497 Date: 4/14/23 Personnel: JA
 Project: CERCLA GW sampling Client: Solutia Page: 1 of 1

Well ID: OW-10 Starting Water Level: 9.69 Time: 1048
 Total Depth: 39.29 Ending Water Level: 17.88 Time: 1139

Purging Time: On: 1110 Evacuation Method: portable bladder pump
 Off: 1139 Volume in Well (gallons): 4.85 gallons
 Well Depth: 40 ft bgs Evacuation Rate (gal/min): 0.04 gallons/min
 Screen Depth: 33-38 ft bgs Total Volume Removed (gallons): 1.25 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)
1110	10.01	200	18.50	7.79	10.5	0.86	5.04	196.4	slightly cloudy, none
1113	11.11	200	18.53	7.76	11.0	0.86	5.01	173.4	clear, none
1116	11.60	200	18.52	7.75	10.4	0.85	4.97	172.9	" "
1119	12.22	200	18.50	7.75	13.4	0.85	4.95	172.2	" "
1122	13.01	200	18.51	7.73	17.7	0.85	4.88	181.7	" "
1125	14.96	200	18.49	7.73	27.8	0.85	4.87	166.5	" "
1128	15.56	175	18.52	7.71	30.4	0.85	4.81	168.3	" "
1131	16.45	175	18.53	7.70	25.1	0.85	4.81	183.0	" "
1134	16.95	175	18.62	7.69	17.1	0.85	4.81	183.5	" "
1136	17.50	175	18.66	7.69	17.2	0.85	4.84	178.0	" "
1139	17.88	175	18.64	7.69	15.8	0.85	4.87	174.9	" "

WLM
 D1137
 Pump
 P4404

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:

CPM4 10R
SD 70 ft/head

ULM: 1201

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6495 Date: 4/17/23 Personnel: EGK

Project: Anniston April Event Client: Solutia Page: 1 of 1

Well ID: OW-16A Starting Water Level: 10.53 Time: 1002

Total Depth: 35.22 Ending Water Level: 13.23 Time: 1048

Purging Time: 1008 On: 1010 Off: 1010 Evacuation Method: low flow dedicated bleed pump

Well Depth: 35.1 Volume in Well (gallons): 3.93 Evacuation Rate (gpm): 200

Screen Depth: 23-33 Total Volume Removed (gallons): ~2

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)
1010	11.20	1250	17.92	5.20	15.1	139.41	1.26	127.6	clear, no odor
1013	11.35	125	17.83	5.27	24.0	143.40	1.40	126.5	
1014	11.75	250	17.64	5.33	24.0	145.20	0.89	125.1	
1019	11.96	200	17.84	5.36	27.3	148.74	0.56	128.2	
1021	12.16	200	17.99	5.37	20.1	148.56	0.45	126.6	
1024	12.40	200	17.95	5.38	22.7	148.23	0.35	127.7	
1027	12.54	200	17.92	5.39	17.7	147.22	0.31	120.4	
1030	12.43	200	18.00	5.37	17.5	146.64	0.29	122.3	
1033	12.82	200	17.98	5.38	14.4	145.32	0.28	124.8	
1036	12.95	200	17.95	5.34	12.2	143.50	0.27	124.0	
1039	13.00	200	18.03	5.33	11.0	142.90	0.27	200.7	
1042	13.09	200	18.06	5.31	9.83	142.43	0.27	203.0	
1045	13.20	200	18.10	5.31	9.76	141.94	0.27	206.2	
1048	13.23	200	18.23	5.29	9.04	140.00	0.27	208.5	

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 DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

CPM 4 10 0
5 R
soft/head
WLM: D1201

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: <u>0495</u>	Date: <u>4/16/23</u>	Personnel: <u>EGK</u>
Project: <u>Anniston April Event</u>	Client: <u>Solutia</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>OW-21A</u>	Starting Water Level: <u>12.96</u>	Time: <u>1026</u>
Total Depth: <u>37.99</u>	Ending Water Level: <u>17.95</u>	Time: <u>1057</u>
Purging Time: On: <u>1030</u>	Evacuation Method: <u>10W flow dedicated bladder pump</u>	
Off: <u>1100</u>	Volume in Well (gallons): <u>3.94</u>	
Well Depth: <u>37.6</u>	Evacuation Rate (gpm): <u>150</u>	
Screen Depth: <u>25-35</u>	Total Volume Removed (gallons): <u>~1.25</u>	

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)
1030	14.05	200	19.89	4.10	9.74	0.14	1.75	194.9	clear, odor
1033	14.30	150	20.03	4.30	20.3	0.11	1.14	182.2	" "
1036	14.86	150	24.9 19.76	4.43	24.9	0.11	0.93	176.1	" "
1039	15.25	150	19.83	4.48	28.6	0.11	0.84	173.9	" "
1042	15.80	150	20.18	4.56	28.5	0.11	0.67	171.0	
1045	16.27	150	20.49	4.58	26.3	0.10	0.58	169.4	
1048	16.62	150	20.60	4.61	23.3	0.10	0.54	168.9	
1051	17.20	150	20.32	4.61	20.2	0.10	0.48	169.7	
1054	17.71	150	20.51	4.63	21.3	0.10	0.46	169.2	
1057	17.95	150	20.56	4.63	20.0	0.10	0.45	168.2	

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:

CPM4 10R
50
80 ft/head

WLM: 1201

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: <u>6495</u>	Date: <u>4/13/23</u>	Personnel: <u>EGK</u>
Project: <u>Amniston April Event</u>	Client: <u>Solutia</u>	Page: <u>1</u> of <u>2</u>
Well ID: <u>OW-22</u>	Starting Water Level: <u>12.60</u>	Time: <u>1637</u>
Total Depth: <u>39.40</u>	Ending Water Level: <u>16.74</u>	Time: <u>1803</u>

Purging Time: On: <u>1640</u>	Evacuation Method: <u>low flow non-dedicated bladder pump</u>
Off: <u>39.40</u> <u>1805</u>	Volume in Well (gallons): <u>4.016</u>
Well Depth: <u>37.7</u>	Evacuation Rate (gal/min): <u>200</u>
Screen Depth: <u>24-34</u>	Total Volume Removed (gallons): <u>N3</u>

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)
1643	13.07	175	18.55	5.38	17.5	0.08	6.71	212.4	partly cloudy, no odor
1648	14.15	200	18.96	4.97	21.6	0.07	3.63	264.5	" "
1653	14.15	200	18.72	4.91	68.4	0.07	2.82	279.0	" "
1658	14.72	200	18.83	4.89	88.6	0.07	2.46	287.2	" "
1703	15.22	200	18.85	4.90	83.9	0.07	2.38	289.5	" "
1708	15.11	125	18.82	4.90	73.9	0.07	2.41	285.2	" "
1713	15.10	200	18.79	4.90	70.4	0.07	2.40	288.5	" "
1718	15.39	200	18.89	4.89	59.6	0.07	2.29	290.3	" "
1723	15.69	200	18.94	4.90	46.1	0.07	2.23	291.8	" "
1728	15.95	200	18.94	4.89	38.5	0.07	2.20	293.9	" "
1733	16.10	200	18.96	4.88	30.3	0.07	2.18	295.0	clear no odor
1736	16.20	200	18.94	4.88	26.8	0.07	2.17	295.2	" "
1739	16.30	200	19.02	4.88	25.7	0.07	2.16	295.9	" "
1742	16.41	200	18.97	4.89	21.8	0.07	2.14	297.4	" "
1745	16.51	200	18.96	4.88	20.7	0.07	2.14	298.6	" "
1748	16.51	200	18.94	4.88	17.6	0.07	2.14	299.0	" "
1751	16.63	200	18.95	4.88	17.1	0.07	2.14	301.2	" "
1754	16.67	200	18.95	4.87	15.0	0.07	2.13	301.9	" "

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:

CPM 3 12.5 R
7.50
@ 40 ft/head

WLM:
D1201

LOW FLOW MONITORING WELL PURGING LOG

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6497 Date: 4/17/2023 Personnel: JK
 Project: CERCLA GW Sampling Client: Solutia Page: 1 of 1
 Well ID: OWR-11 Starting Water Level: 9.35 Time: 1022
 Total Depth: 37.45 Ending Water Level: 14.49 Time: 1116
 Purging Time: 1034 On: 1116 Evacuation Method: portable bladder pump
 Off: 1116 Volume in Well (gallons): 3.072 gallons
 Well Depth: 37.9 ft btoC Evacuation Rate (gal/min): 0.07 gallons/min
 Screen Depth: 25-35 ft bgs Total Volume Removed (gallons): 3 gallons

WLM
 DT137
 Pump
 P4404

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)
1034	10.20	200	18.14	4.04	96.0	0.33	1.47	260.7	slightly cloudy/light odor
1037	11.21	200	17.95	3.81	76.3	0.34	1.50	257.6	" "
1040	11.61	200	17.91	3.73	82.0	0.33	2.32	268.4	clear / none
1043	11.99	200	17.94	3.70	74.1	0.33	2.68	274.4	" "
1046	12.21	200	17.90	3.70	74.5	0.33	2.88	276.6	" / slight odor
1049	12.72	200	17.97	3.70	67.8	0.33	3.08	282.4	" "
1052	12.95	200	17.99	3.68	57.8	0.33	3.10	284.9	" "
1055	13.26	200	18.02	3.67	40.7	0.33	3.04	291.6	" "
1058	13.40	200	18.06	3.66	42.6	0.33	2.97	294.0	" "
1101	13.65	200	18.08	3.67	36.0	0.33	2.94	296.8	" "
1104	13.80	200	18.12	3.68	17.6	0.32	2.83	306.1	" "
1107	14.00	200	18.13	3.68	19.0	0.32	2.81	313.1	" "
1110	14.26	200	18.15	3.69	7.89	0.32	2.81	318.9	" "
1113	14.45	200	18.17	3.67	8.86	0.32	2.83	323.7	" "
1116	14.49	200	18.19	3.68	9.50	0.32	2.82	327.0	" "

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

Notes:



Purging Time:	On: 1530	Evacuation Method:	portable bladder pump
	Off: 1548	Volume in Well (gallons):	3.9 gallons
Well Depth:	38.7 ft bto	Evacuation Rate (gal/min):	0.08 gallons/min
Screen Depth:	26-36 ft bgs	Total Volume Removed (gallons):	1.5 gallons

WLM
D1137
—
Pump
P4404

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:

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6497 Date: 4/14/23 Personnel: EGIC

Project: Anniston April Event Client: Solutia Page: 1 of 1

Well ID: DWR-140 Starting Water Level: 67.52 Time: 945

Total Depth: 82.15 Ending Water Level: 70.81 Time: 1148

Purging Time: On: 1025 Evacuation Method: low flow non-dedicated bladder pump

Off: 1150 Volume in Well (gallons): 2.24

Well Depth: 81.5 Evacuation Rate (gal/min): 150

Screen Depth: 69-79 Total Volume Removed (gallons): ~2

(74 + 2.5 = 76.5)

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)
1027	68.81	250	21.75	6.21	119	0.00	8.69	215.5	mostly clear / no odor
1030	69.33	125	20.44	6.40	86.4	0.00	8.49	NM	
1045	69.28	150	- Aqua Troll Batteries dead -						get replacement -
1117	69.19	175	23.77	6.72	74.4	0.00	8.98	159.9	mostly clear no odor
1122	69.68	150	22.11	6.69	54.4	0.00	8.72	167.5	" "
1127	69.82	150	21.55	6.69	47.0	0.00	8.80	170.6	" "
1132	70.05	150	21.45	6.67	40.3	0.00	8.80	172.9	" "
1137	70.40	150	21.56	6.63	37.5	0.00	8.70	175.7	clear no odor
1142	70.62	150	21.77	6.58	35.0	0.00	8.66	176.8	" "
1145	70.77	150	21.85	6.58	33.1	0.00	8.67	178.0	" "
1148	70.81	150	21.70	6.58	35.9	0.00	8.66	178.1	" "

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:

Set pump @ 76.5 ft btoc

p4408

w/m: 01201

* took batteries out of other aqua troll

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6496 Date: 4/13/23 Personnel: BWA/SM/EGK
 Project: Ammonia April Event Client: Solutia Page: 1 of 1
 Well ID: OWR-15D Starting Water Level: 12.48 Time: 0919
 Total Depth: 10690 Ending Water Level: 15.60 Time: 1046
 Purging Time: On: 1008 Off: 1014 Evacuation Method: low flow non-dedicated bladder pump
 Volume in Well (gallons): 8.64
 Well Depth: 106.5 Evacuation Rate (gpm): 125
 Screen Depth: 59 - 69 ft bgs Total Volume Removed (gallons): 20.5

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)
1016	12.06	100	16.58	5.97	9.62	0.10	4.54	149.7	Slightly cloudy/No odor
1021	12.53	125	16.67	5.87	10.0	0.14	1.59	146.2	clear/No odor
1026	13.1	100	16.81	5.86	15.5	0.14	0.94	149.1	clear/No odor
1031	13.68	125	16.91	5.85	15.5	0.17	0.60	148.7	" "
1036	14.36	100	16.90	5.85	15.4	0.16	0.52	147.1	" "
1041	15.10	125	16.99	5.84	16.3	0.16	0.46	145.5	" "
1046	15.60	100	17.09	5.84	15.1	0.155	0.40	144.2	" "

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 @ 61.235 feet
CPM4 10R
5 D
80 ft head
pump p4408 WLM: D1201

LOW FLOW MONITORING WELL PURGING LOG

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.:	6497	Date:	4/15/23	Personnel:	EGK
Project:	Armistea April Event	Client:	solutia	Page:	1 of 1
Well ID:	T-04	Starting Water Level:	9.55	Time:	1158
Total Depth:	28.30	Ending Water Level:	9.73	Time:	1250
Purging Time:	On: 1220	Evacuation Method:	low flow non-dedicated bladder pump		
Off:	1253	Volume in Well (gallons):	2.6		
Well Depth:	25.8	Evacuation Rate (gpm):	2.7		
Screen Depth:	15-25	Total Volume Removed (gallons):	N/A		

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)
1223	9.72	100	22.45	6.48	42.5	0.19	5.74	115.4	Mostly clear, no odor
1226	9.82	150	20.91	6.54	53.5	0.19	7.93	120.8	"
1229	9.85	150	20.04	6.55	57.5	0.19	8.98	125.7	"
1232	9.85	250	21.05	6.59	52.9	0.20	9.42	125.2	
1235	9.91	250	20.51	6.67	51.1	0.20	9.79	124.3	
1238	10.00	175	20.83	6.73	47.7	0.20	9.83	122.6	
1241	9.90	200	20.83	6.81	45.3	0.20	9.64	118.9	
1244	9.91	200	20.45	6.87	42.1	0.20	9.56	116.7	
1247	9.22	200	21.00	6.91	40.1	0.20	9.48	114.5	
1250	9.73	200	20.94	6.95	41.4	0.20	9.43	113.4	

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:

Set pump @ 20ft

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: <u>6497</u>	Date: <u>4/13/23</u>	Personnel: <u>E G K</u>
Project: <u>Anniston April Event</u>	Client: <u>Solutia</u>	Page: <u>1</u> of <u>2</u>
Well ID: <u>T-06</u>	Starting Water Level: <u>78.70</u>	Time: <u>1232</u>
Total Depth: <u>127.05</u>	Ending Water Level: <u>78.71</u>	Time: <u>1406</u>

Purging Time: On: <u>1408</u> <u>1250</u>	Evacuation Method: <u>low flow non dedicated bladder pump</u>
Off: <u>124.8</u> <u>1408</u>	Volume in Well (gallons): <u>7.37</u>
Well Depth: <u>115-125</u> <u>124.8</u>	Evacuation Rate (gal/min): <u>150</u>
Screen Depth: <u>115-125</u>	Total Volume Removed (gallons): <u>~ 2</u>

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)
1300	78.70	150	19.12	7.04	36.5	0.08	6.47	139.1	Clear no odor
1303	78.71	150	19.13	7.07	33.5	0.08	6.27	140.6	Slightly cloudy no odor
1306	78.80	150	19.13	7.08	33.0	0.09	6.15	141.1	" "
1309	78.81	150	19.15	7.12	34.8	0.12	5.93	138.1	" "
1312	78.82	150	19.16	7.23	37.4	0.26	4.64	134.2	" "
1315	78.85	150	19.14	7.27	52.6	0.35	3.88	132.8	" "
1st run for a bit									
1327	78.80	150	19.10	7.36	33.2	0.69	1.49	131.7	" "
1330	78.75	150	19.11	7.37	41.2	0.70	1.34	129.4	" "
1333	78.80	150	19.13	7.38	45.8	0.72	1.10	127.5	" "
1336	78.79	150	19.11	7.38	43.7	0.73	1.03	126.5	" "
1339	78.71	150	19.12	7.39	41.8	0.74	0.92	124.3	" "
1342	78.74	150	19.12	7.39	34.1	0.74	0.86	123.0	" "
1345	78.75	150	19.17	7.39	35.0	0.75	0.79	121.5	" "
1348	78.80	150	19.19	7.39	31.8	0.75	0.74	120.5	" "
1351	78.72	150	19.26	7.40	31.3	0.69	0.69	119.3	0.76 sp. con.
1354	78.71	150	19.28	7.39	31.2	0.76	0.64	118.1	
1357	78.71	150	19.20	7.40	28.5	0.77	0.61	117.3	

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:

Set pump @ 120 ft bgs

CPM 2

17 R

13 P

@ 140 ft/head



Purging Time: _____
On: _____ Evacuation Method: See page 1
Off: _____ Volume in Well (gallons): _____
Well Depth: _____ Evacuation Rate (gal/min): _____
Screen Depth: _____ Total Volume Removed (gallons): _____

[illegible]

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:

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6497 Date: 4/11/23 Personnel: JA
 Project: CERCLA semi-Annual GW Sampling Client: Solutia Page: 1 of 1
 Well ID: T-10 Starting Water Level: 14.65 Time: 1406
 Total Depth: 39.11 Ending Water Level: 20.89 Time: 1534
 Purging Time: 1443 On: 1534 Evacuation Method: portable bladder pump
 Off: 1534 Volume in Well (gallons): 3.3 gallons
 Well Depth: 35 ft bgs Evacuation Rate (gal/min): 0.049 gal/min
 Screen Depth: 25-35 ft bgs 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)
1443	15.15	200	20.23	6.26	40.5	0.19	5.93	150.3	clear, none
1448	16.62	200	18.85	6.01	42.8	0.19	8.92	135.7	" "
1453	16.80	200	18.83	5.86	49.2	0.19	9.61	203.9	" "
1459	16.61	200	18.90	5.82	45.9	0.19	9.47	206.1	" "
1504	18.02	200	18.86	5.83	40.4	0.19	9.46	206.6	" "
1509	19.37	150	19.31	5.75	30.7	0.18	9.09	206.4	" "
1514	19.84	100	19.84	5.60	22.1	0.18	8.68	209.1	" "
1519	20.10	100	20.11	5.61	20.0	0.18	8.61	209.1	" "
1524	20.48	100	20.00	5.56	18.9	0.18	8.41	209.8	" "
1529	20.67	100	20.15	5.55	19.7	0.17	8.21	209.7	" "
1534	20.89	100	19.90	5.55	18.8	0.17	8.36	211.4	" "

WLM
D1201
pump
P4404

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:

CPM4
2 sec. discharge
50 ft pressure

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 0497 Date: 4/19/23 Personnel: EGK, JSC

Project: Anniston April Event Client: Solutia Page: 1 of 1

Well ID: T-18 Starting Water Level: 4.50 Time: 1514

Total Depth: 26.40 Ending Water Level: 12.21 Time: 1613

Purging Time: On: 1529 Evacuation Method: low flow bladder pump

Off: 1615 Volume in Well (gallons): 3.4

Well Depth: 25.7 Evacuation Rate (gal/min): ~ 200 125-200

Screen Depth: 16-24 Total Volume Removed (gallons): 51.5

(21)

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)
1534	4.56	100	21.06	5.88	525	0.00	8.69	410.3	Slight odor, orange, cloudy
1537	5.25	200	20.96	20.98	427	0.00	8.06	42.3	" "
1540	6.00	200	20.92	5.65	331	0.00	6.45	60.0	" "
1543	6.80	200	20.88	5.64	244	0.00	6.04	62.6	" "
1546	7.60	200	20.85	5.65	123	0.00	5.95	62.5	" "
1549	8.52	200	20.79	5.65	72.9	0.00	5.85	64.0	" "
1552	9.00	150	20.75	5.65	66.9	0.00	6.31	64.9	" "
1555	9.52	150	20.76	5.66	58.6	0.00	6.28	65.3	" "
1558	10.20	150	20.77	5.66	56.7	0.00	6.18	66.3	" "
1601	10.81	150	20.78	5.66	52.0	0.00	6.34	67.0	partly cloudy / slight odor
1604	11.22	125	20.79	5.66	48.3	0.00	6.55	68.0	" "
1607	11.60	125	20.80	5.66	45.7	0.00	6.67	69.0	" "
1610	11.94	125	20.81	5.64	45.6	0.00	6.66	69.1	" "
1613	12.21	125	20.80	5.64	43.9	0.00	4.70	70.2	

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:

sample well @ 21 ft



set tubing @ 24ft -> got to about
22ft before
encountering
resistance

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6495/6/7 Date: 4/12/2023 Personnel: JA, JSC
 Project: CERCLA semiannual GW sampling Client: Solutia Page: 1 of 1
 Well ID: WEL-04 Starting Water Level: 25.62 Time: 1623
 Total Depth: 51.97 Ending Water Level: 33.60 Time: 1806

Purging Time: On: 1641 Evacuation Method: portable bladder pump
 Off: 1806 Volume in Well (gallons): 3.47 gallons
 Well Depth: 47.3 ft bgs Evacuation Rate (gal/min): 0.029 gal/min
 Screen Depth: 34.5-44.5 ft bgs Total Volume Removed (gallons): 2.5

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)
1641	25.43	200	19.90	4.90	102	0.06	2.13	252.3	clear/no odor
1646	27.09	100	19.23	4.37	79.7	0.06	1.74	309.4	" "
1651	27.43	100	19.92	4.39	72.8	0.06	1.88	308.9	" "
1656	27.92	100	20.11	4.36	54.0	0.06	2.02	309.3	" "
1701	28.06	100	20.00	4.36	49.3	0.06	2.10	309.9	clear/no odor
1706	28.59	100	20.00	4.35	35.9	0.06	2.30	309.1	" "
1711	29.02	100	19.87	4.33	29.0	0.06	2.40	310.1	" "
1716	29.43	100	19.77	4.31	23.0	0.06	2.48	310.2	" "
1721	30.10	100	19.49	4.29	15.5	0.06	2.49	309.7	" "
1726	30.39	100	19.46	4.29	11.8	0.06	2.51	309.1	" "
1731	30.75	100	19.43	4.36	13.1	0.06	2.78	308.4	" "
1736	31.20	100	19.44	4.42	8.67	0.06	3.14	306.3	" "
1741	31.68	100	19.27	4.48	6.55	0.05	3.40	304.8	" "
1746	32.11	100	19.26	4.55	5.35	0.05	3.65	301.2	" "
1751	32.45	100	19.26	4.61	5.21	0.05	3.81	299.2	" "
1756	32.77	100	19.13	4.66	4.46	0.05	4.05	296.7	" "
1801	33.34	100	19.16	4.71	4.06	0.05	4.32	294.6	" "
1806	33.60	100	19.01	4.71	3.67	0.05	4.44	292.8	" "

WLM
D1201
pump
P4408

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:

CPM4 10/5
40 ft pressure

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No. 6495 6497 Date: 6/13/23 Personnel: JA, JSC

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

Well ID: OW-10 Starting Water Level: 11.29 Time: 1341

Total Depth: _____ Ending Water Level: 19.47 Time: 1442

Purging Time: 1401 On: _____ Evacuation Method: Dedicated Bladder Pump

Off: 1442 Volume in Well (gallons): 4.63 gallons

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

Screen Depth: 33-38 ft bgs 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)
1401	10.70	200	21.81	6.11	302	813.44	4.15	204.0	slightly cloudy / none
1404	11.39	200	20.32	5.99	216	808.96	4.59	206.9	" "
1407	12.32	200	19.91	5.97	145	810.66	5.36	209.3	" "
1410	13.29	200	19.80	5.99	99.1	799.17	6.30	210.6	" "
1413	14.41	200	19.68	5.99	67.3	800.61	7.19	212.4	less cloudy / none
1416	15.40	200	19.64	5.99	50.8	808.73	7.75	214.0	" "
1419	16.10	200	19.57	5.98	39.6	811.50	8.05	214.7	" "
1422	16.77	200	19.56	5.98	27.3	801.22	8.45	215.6	clear / none
1425	17.55	200	19.58	5.98	24.5	801.15	8.58	216.3	" "
1428	18.53	200	19.52	5.98	19.8	803.47	8.70	216.3	" "
1433	19.54	200	19.76	5.98	17.6	803.94	9.13	217.3	" "
1436	19.51	200	20.55	5.97	14.2	802.69	9.32	217.2	" "
1439	19.49	200	21.40	5.97	13.6	807.74	9.40	217.5	" "
1442	19.47	200	22.19	5.96	13.6	807.62	9.39	217.9	" "

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:

pump set @ ~35 ft bgs
CPM 4
~60 ft pressure
5 sec discharge



Purging Time:	1003	Evacuation Method:	Dedicated Bladder Pump
On:	1027	Volume in Well (gallons):	2.4
Off:	25.8	Evacuation Rate (gal/min):	0.083
Well Depth:	15-25	Total Volume Removed (gallons):	2
Screen Depth:			

PURGING DATA AND FIELD PARAMETERS

[illegible]

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:

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: <u>0122 6497-102</u>	Date: <u>6/14/23</u>	Personnel: <u>JA JSC</u>
Project: <u>Solutia Anniston KROK GW Sampling</u>	Client: <u>Solutia</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>T-18</u>	Starting Water Level: <u>4.89</u>	Time: <u>1200</u>
Total Depth: <u>NM</u>	Ending Water Level: <u>14.29</u>	Time: <u>1403</u>
Purging Time: <u>1213</u>	Evacuation Method: <u>portable</u>	
On: <u>1403</u>	Volume in Well (gallons): <u>3.33</u>	
Off: <u>1403</u>	Evacuation Rate (gal/min): <u>0.041</u>	
Well Depth: <u>25.7 ft btoe</u>	Total Volume Removed (gallons): <u>2.5</u>	
Screen Depth: <u>16-26 ft btoe</u>		

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)
1213	2.55	50	23.94	5.29	262	204.73	5.53	65.8	cloudy, odor
1226	5.20	400	23.19	5.58	>1000	195.02	6.47	66.2	very cloudy, odor
1229	7.20	250	22.82	5.66	>1000	204.90	6.55	64.4	" "
1232	7.79	150	22.99	5.61	>1000	204.94	6.60	69.2	cloudy, odor
1235	8.28	150	23.11	5.65	>1000	203.17	6.60	69.4	" slight odor
1238	9.19	150	23.07	5.66	>1000	197.98	6.82	67.1	" "
1241	9.85	150	23.09	5.68	>1000	197.63	6.91	67.0	" "
1244	10.40	150	23.14	5.72	>1000	195.29	7.04	69.4	" "
1247	11.01	150	23.10	5.72	890	194.78	7.10	66.1	" "
1252	12.21	150	23.05	5.63	599	193.16	6.98	67.1	" "
1257	13.43	150	23.07	5.69	481	198.62	7.01	70.8	" "
1302	14.21	150	22.97	5.62	372	198.66	6.80	70.9	" "
1307	15.09	150	22.83	5.70	339	196.30	6.61	72.1	slightly cloudy "
Stopped due to heavy rain and lightning									
1354	12.62	150	22.48	5.59	372	200.02	6.70	73.9	slightly cloudy, odor
1357	13.35	150	22.58	5.43	225	200.89	5.00	87.2	" "
1400	13.69	150	22.51	5.45	213	200.70	5.08	90.4	very slight cloudy, odor
1403	14.29	150	22.41	5.49	212	199.74	5.41	89.8	

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:

o-ring missing at first - was creating bubbles in well - inspected and replaced o-ring
pump set at 21 ft btoe

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: <u>6497</u> <u>CEPCUN</u>	Date: <u>6/14/23</u>	Personnel: <u>JA, JTC</u>
Project: <u>Solutia Anniston</u> <u>GW Sampling</u>	Client: <u>Solutia</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>T-20</u>	Starting Water Level: <u>6.28</u>	Time: <u>813</u>
Total Depth: <u>NM</u>	Ending Water Level: <u>8.06</u>	Time: <u>902</u>
Purging Time: <u>825</u>	Evacuation Method: <u>portable Dedicated Bladder Pump</u>	
On: <u>902</u>	Volume in Well (gallons): <u>9.9 gallons</u>	
Off: <u>902</u>	Evacuation Rate (gal/min): <u>~0.05 gal/min</u>	
Well Depth: <u>37.20</u>	Total Volume Removed (gallons): <u>2 gallons</u>	
Screen Depth: <u>27.5-37.5 ft btoe</u>		

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)
829	6.21	150	21.35	4.48	37.0	231.75	2.59	278.1	clear no odor
832	6.31	275	20.43	4.21	42.5	234.80	1.86	289.5	" "
835	6.58	200	20.42	4.25	42.6	236.89	1.69	286.0	" "
838	6.75	200	20.37	4.13	34.9	237.71	1.64	290.9	" "
841	6.92	200	20.32	4.23	27.8	237.64	1.60	291.0	" "
844	7.13	200	20.29	4.19	24.9	237.51	1.57	295.5	" "
847	7.30	200	20.29	4.23	22.7	237.99	1.56	294.5	" "
850	7.45	200	20.24	4.25	20.2	237.90	1.54	296.1	" "
853	7.60	200	20.24	4.20	18.7	237.73	1.54	300.2	" "
856	7.76	200	20.26	4.17	16.3	238.32	1.53	299.8	" "
859	7.90	200	20.29	4.19	15.5	237.87	1.53	302.8	" "
902	8.06	200	20.30	4.22	15.7	237.60	1.52	300.9	" "

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:

pump set @ 32.5 ft btoe
CPM 4
5 sec discharge
~ 50 ft pressure



Page: 1 of 1

Time: 1700

Screen Depth: 19-29 ft bgs Total Volume Removed (gallons): 2 gallons

Notes:



Pump settings for 200 nL/min were
~78 ft pressure, CPM 4

FALL 2023 PURGING LOGS

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LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122-60495 Date: 10/17/23 Personnel: EGK, LCM

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

Well ID: MW-01B Starting Water Level: 43.25 Time: 0756

Total Depth: 63.65 Ending Water Level: Top of pump Time: 0904

Purging Time: On: 0808 Evacuation Method: Dedicated Bladder Pump

Off: 0904 Volume in Well (gallons): ~ 3.32

Well Depth: 64.0 Evacuation Rate (gal/min): ~ 125 mL/min

Screen Depth: 57.5 - 62.5 Total Volume Removed (gallons): ~ 0.6

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)
808	44.75	75	17.64	5.49	14.5	0.02	10.02	219.9	clear, no odor
811	45.68	200	17.04	4.70	39.8	0.02	8.25	243.4	"
815	46.30	100	16.65	4.61	39.5	0.02	8.84	227.2	"
818	46.81	100	16.52	4.69	43.1	0.02	9.03	217.4	"
821	47.22	125	16.57	4.72	38.1	0.02	9.15	221.2	"
824	47.99	125	16.57	4.63	42.9	0.02	9.03	212.3	"
828	48.52	125	16.59	4.53	33.7	0.02	8.85	219.2	"
831	49.37	125	16.61	4.53	30.6	0.02	8.61	227.0	"
834	50.42	125	16.65	4.50	23.8	0.02	8.30	226.5	"
837	50.83	125	16.60	4.60	22.6	0.02	8.09	227.8	"
840	51.31	125	16.55	4.75	18.7	0.02	7.91	232.6	"
843	52.00	125	16.53	4.67	15.9	0.02	7.73	235.5	"
846	52.92	125	16.53	4.70	14.4	0.02	7.57	236.0	"
849	53.53	125	16.52	4.63	12.4	0.02	7.40	236.2	"
852	54.00	125	16.54	4.69	10.4	0.02	7.26	238.0	"
855	54.63	125	16.59	4.71	10.3	0.02	7.19	240.2	"
858	55.09	125	16.55	4.73	8.736	0.02	7.12	244.1	"
901	56.10	125	16.55	4.72	7.45	0.02	7.07	248.7	"

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:

CPM 4

30 PSI

10 m³/d

5 discharge

RAM

WLM D1216
SUL: 46.10 10/18/23 @ 1044
Finished extracting bottom @ 1059 10/18/23

**Personnel:** _____

Page: 2 of 2

Time: _____

Time: _____

Volume in Well (gallons): _____

Evacuation Rate (gal/min): _____

Total Volume Removed (gallons): _____

[illegible]

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:

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 0122-6495 Date: 10/17/23 Personnel: EGK, LCM
 Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 2
 Well ID: MW-11A Starting Water Level: 97.46 Time: 10:03
 Total Depth: 112.33 Ending Water Level: 97.78 Time: 1141
 Purging Time: 1016 Evacuation Method: Dedicated Bladder Pump
 On: 1016 Volume in Well (gallons): ~ 2.8
 Off: 1142 Evacuation Rate (gal/min): ~ 250 mL/min
 Well Depth: 115 Total Volume Removed (gallons): ~ 59
 Screen Depth: 109-114

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F/°C)	pH	Turbidity (NTU)	Spec. Cond. (umho/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1017	97.90	400	17.02	7.62	94.4	0.22	7.52	158.1	cloudy, no odor
1020	97.92	400	16.95	7.78	163	0.22	6.59	148.1	" "
1023	98.00	400	16.93	7.82	>1000	0.22	6.13	134.2	" "
1026	97.87	400	16.86	7.71	>1000	0.23	5.83	112.8	" "
1029	97.91	400	16.90	7.87	>1000	0.23	5.91	112.3	" "
1032	97.93	400	16.93	7.87	>1000	0.23	5.96	109.5	" "
1035	97.82	350	16.94	7.87	973	0.23	5.98	112.8	" "
1038	97.89	250	17.03	7.89	538	0.23	5.97	117.0	partly cloudy, no odor
1041	97.82	250	17.08	7.89	372	0.23	5.95	118.1	" "
1044	97.85	275	17.09	7.89	266	0.23	5.92	123.1	" "
1047	97.85	225	17.10	7.79	170	0.23	5.89	123.7	slightly cloudy, no odor
1050	97.88	250	17.16	7.91	119	0.23	5.82	128.6	" "
1053	97.75	250	17.23	7.87	116	0.23	5.81	128.3	" "
1056	97.79	250	17.26	7.81	72	0.23	5.84	125.5	mostly clear, no odor
1059	97.73	250	17.18	7.91	56.8	0.23	5.82	127.3	" "
1102	97.80	225	17.11	7.85	47.8	0.23	5.80	125.7	" "
1105	97.80	225	17.12	7.87	36.7	0.23	5.75	126.1	" "
1108	97.75	250	17.15	7.88	30.5	0.23	5.71	125.8	" "

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:

CPM2 PSI @ 150

R: 22
D: 8

WLM: D1216

112.33

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122		Date: _____	Personnel: _____
Project: Solutia Anniston RCRA GW Sampling		Client: Solutia	Page: 2 of 2

Well ID: MW-11A	Starting Water Level: _____	Time: _____
Total Depth: _____	Ending Water Level: _____	Time: _____

Purging Time: _____	Evacuation Method: Dedicated Bladder Pump
On: _____	Volume in Well (gallons): _____
Off: _____	Evacuation Rate (gal/min): _____
Well Depth: _____	Total Volume Removed (gallons): _____
Screen Depth: _____	

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)
1111	97.88	97.8250	17.18	7.86	25.8	0.23	5.66	128.3	Clear, no odor
1114	97.85	250	17.20	7.76	21.6	0.23	5.66	127.4	" "
1117	97.72	250	17.18	7.87	18.8	0.23	5.65	126.4	" "
1120	97.83	250	17.17	7.90	18.0	0.23	5.58	133.0	
1123	97.74	285	17.11	7.85	13.0	0.23	5.63	129.3	
1126	97.70	225	17.14	7.92	13.8	0.23	5.58	129.7	
1129	97.77	225	17.15	7.88	12.3	0.23	5.65	128.0	
1132	97.84	225	17.17	7.91	11.9	0.23	5.62	128.0	
1135	97.75	225	17.14	7.90	9.93	0.23	5.59	132.2	
1138	97.8	225	17.15	7.91	9.25	0.23	5.56	134.6	
1141	97.78	225	17.15	7.89	8.16	0.23	5.55	128.6	

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 +/- 1% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 5% if turbidity is greater than 10 NTUs

Notes:

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 0122-6495 Date: 10/17/23 Personnel: EGK, LCM
 Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1
 Well ID: MW-12A Starting Water Level: 99.55 Time: 1335
 Total Depth: 115.21 Ending Water Level: 99.79 Time: 1411
 Purging Time: On: 1340 Off: 1412 Evacuation Method: Dedicated Bladder Pump
 Well Depth: 124.5 Volume in Well (gallons): ~2.51
 Screen Depth: 105-110 Evacuation Rate (gal/min): 300 mL/min
 Total Volume Removed (gallons): ~2.5

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)
1344	99.60	200	19.76	7.82	8.10	0.36	9.61	207.4	clear/no odor
1347	99.65	225	18.42	7.09	1.91	0.36	9.41	216.8	
1350	99.72	300	17.43	7.09	1.03	0.36	8.37	207.1	
1353	99.80	300	17.25	7.18	1.06	0.33	7.27	203.1	
1356	99.90	300	17.17	7.35	1.30	0.30	6.17	194.3	
1359	99.96	300	17.08	7.46	1.13	0.28	5.74	189.4	
1402	99.77	300	17.02	7.55	0.81	0.28	5.50	184.1	
1405	99.93	300	17.05	7.59	0.84	0.27	5.37	181.2	
1408	99.88	300	17.08	7.63	0.65	0.27	5.25	177.9	
1411	99.79	300	17.07	7.65	0.59	0.27	5.14	174.8	

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:

Cpm2 WLM: D1216
 130 ft pressure
 20 R
 10 D

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: <u>6495</u>	Date: <u>10/18/23</u>	Personnel: <u>EGK, LCM</u>
Project: <u>Solutia Anniston RCRA GW Sampling</u>	Client: <u>Solutia</u>	Page: <u>1</u> of <u>2</u>
Well ID: <u>MW-13A-R</u>	Starting Water Level: <u>97.41</u>	Time: <u>753</u>
Total Depth: <u>114.51 (10/17/23)</u>	Ending Water Level: <u>97.43</u>	Time: <u>942</u>
Purging Time: On: <u>756</u>	Evacuation Method: <u>Dedicated Bladder Pump</u>	
Off: <u>943</u>	Volume in Well (gallons): <u>~ 2.736</u>	
Well Depth: <u>111 ft</u>	Evacuation Rate (gal/min): <u>~ 125 mL/min</u>	
Screen Depth: <u>105-110</u>	Total Volume Removed (gallons): <u>~ 3 gal</u>	

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)
759	97.41	150	16.72	8.17	7.13	0.31	6.55	210.1	Clear no odor
802	97.42	100	16.87	8.15	4.38	0.31	6.47	208.8	
805	97.42	100	16.33	8.15	12.5	0.31	7.12	205.7	
808	97.42	125	16.43	8.15	17.1	0.31	7.86	203.6	
811	97.42	150	16.71	7.85	20.9	0.31	7.30	203.2	
814	97.43	150	16.76	7.64	23.4	0.31	6.32	203.8	
817	97.43	150	16.70	7.47	31.4	0.30	5.63	202.0	
820	97.44	150	16.31	7.44	21.5	0.30	5.51	202.4	
823	97.43	150	16.30	7.40	19.8	0.30	5.36	201.0	
826	97.43	150	16.42	7.35	16.6	0.30	5.19	199.8	
829	97.43	150	16.55	7.34	15.6	0.30	5.09	199.0	
832	97.43	100	16.47	7.33	12.2	0.30	5.01	199.7	
835	97.44	125	16.46	7.31	11.6	0.30	4.91	198.3	
838	97.45	125	16.69	7.29	9.51	0.30	4.86	198.5	
841	97.43	125	16.81	7.27	8.86	0.30	4.78	196.4	
844	97.42	125	16.49	7.25	7.41	0.29	4.76	196.9	
847	97.42	125	16.58	7.23	7.91	0.29	4.70	195.6	
850	97.42	125	16.48	7.23	6.42	0.29	4.65	195.6	✓

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:

White powder observed on 20 ft of tubing i top 1/3 of Pump. Sample taken in a plastic bottle w/ out preservative.

Top of pump: 107.50 ft bblc

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: <u>0122 6495</u>	Date: <u>10/18/23</u>	Personnel: <u>EGK, LCM</u>
Project: <u>Solutia Anniston RCRA GW Sampling</u>	Client: <u>Solutia</u>	Page: <u>2</u> of <u>2</u>

Well ID: <u>MW-13A-R</u>	Starting Water Level: _____	Time: _____
Total Depth: _____	Ending Water Level: _____	Time: _____

Purging Time: On: _____	Evacuation Method: <u>Dedicated Bladder Pump</u>
Off: _____	Volume in Well (gallons): _____
Well Depth: _____	Evacuation Rate (gal/min): _____
Screen Depth: _____	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. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
853	97.45	125	16.58	7.21	5.41	0.29	4.62	195.4	Clear no odor
856	97.42	125	16.72	7.22	5.29	0.29	4.57	193.5	
859	97.42	125	16.81	7.21	5.06	0.29	4.56	194.5	
902	97.42	125	16.85	7.19	4.88	0.29	4.54	193.1	
905	97.43	100	16.83	7.20	4.57	0.29	4.51	192.4	
908	97.42	100	16.95	7.18	4.20	0.29	4.50	190.3	
912	97.42	100	17.08	7.19	4.08	0.29	4.48	191.8	
915	97.43	100	17.08	7.16	4.06	0.29	4.46	189.6	
918	97.44	100	17.06	7.18	3.86	0.29	4.45	189.9	
921	97.43	100	17.14	7.15	3.38	0.29	4.44	188.6	
924	97.43	100	17.21	7.15	3.06	0.29	4.43	188.0	
927	97.43	100	17.29	7.16	3.19	0.29	4.41	188.1	
930	97.44	100	17.32	7.16	2.98	0.29	4.41	188.9	
933	97.43	100	17.41	7.13	3.41	0.29	4.38	186.2	
936	97.44	100	17.51	7.15	2.85	0.29	4.37	185.4	
939	97.43	100	17.57	7.16	2.58	0.29	4.36	184.7	
942	97.43	100	17.69	7.15	2.51	0.29	4.34	184.2	

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:

CPM 2
 120 110 ft pressure
 20R
 100
 EULM : D1216

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 **6495**

Date: 10/19/21

Personnel: LCM, ECK

Project: Solutia Anniston RCRA GW Sampling

Client: Solutia

Page: 1 of 1

Well ID: MW-15

Starting
Water Level 13.54

Time: 15:36

Total Depth: NM

Ending
Water Level 14.25

Time: 1627

Purging Time: 1540
On:

Evacuation Method: Dedicated Bladder Pump

Off: 1622

Volume in Well (gallons): ~ 2.04

Well Depth: 27

Evacuation Rate (gal/min): 250 mL/min

Screen Depth: 19-24

Total Volume Removed (gallons): ~ 2.75

PURGING DATA AND FIELD PARAMETERS

[illegible]

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:

WLM D1201
CPM 4 15ps

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: <u>6422-6495</u>	Date: <u>10/18/23</u>	Personnel: <u>EGK</u>
Project: <u>Solutia Anniston RCRA GW Sampling</u>	Client: <u>Solutia</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>MW-20A</u>	Starting Water Level: <u>10.96</u>	Time: <u>1245</u>
Total Depth: <u>25.69</u>	Ending Water Level: <u>15.76</u>	Time: <u>1326</u>
Purging Time: <u>082 1247</u>		
On: <u>1328</u>	Evacuation Method: <u>Dedicated Bladder Pump</u>	
Off: <u>24</u>	Volume in Well (gallons): <u>~2.4</u>	
Well Depth: <u>19-24</u>	Evacuation Rate (gal/min): <u>150</u>	
Screen Depth: <u>19-24</u>	Total Volume Removed (gallons): <u>~2.25</u>	

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)
1250	11.70	150	24.87	7.02	4.91	1.13	5.33	-92.1	clear, slight odor
1253	12.16	150	24.08	7.01	55.8	1.13	2.30	-103.4	" "
1256	12.75	150	23.79	6.96	30.9	1.11	1.55	-154.5	mostly clear, no odor
1259	13.43	150	23.84	6.91	28.7	1.11	1.24	-146.7	clear no odor
1302	13.92	150	23.67	6.93	28.0	1.10	0.88	-140.8	" "
1305	14.41	150	23.50	6.95	27.4	1.09	0.67	-138.4	" "
1308	14.62	150	23.76	6.91	25.6	1.09	0.58	-135.6	
1311	14.99	150	23.66	6.94	26.1	1.09	0.51	-133.4	
1314	15.10	150	23.84	6.95	25.7	1.09	0.49	-132.5	
1317	15.30	150	23.74	6.95	24.0	1.09	0.46	-131.6	
1320	15.47	150	23.52	6.95	22.8	1.09	0.45	-131.8	
1323	15.66	150	23.34	6.93	21.7	1.09	0.44	-133.6	
1326	15.76	150	23.29	6.95	20.8	1.09	0.43	-131.6	

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

WLM: D1216

~~CPM4~~

CPM4

50 ft pressure

**2023 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

Appendix C. Sampling Logs

SPRING 2023 SAMPLING LOGS

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GROUNDWATER SAMPLING FORM

GSI Job No.: 6495 Date: 4/11/23 Personnel: EGK, JSC
 Project: Anniston April Monitoring Event Client: Solutia Page: 1 of 1

Well ID: MW-01B Begin Time: 1527 End Time: 1602
 Weather: Sunny, warm Site Conditions: good, grassy
 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: 17.63 Color: partly cloudy
 (°F / °C) pH: 4.79 Appearance: no odor
 (Standard Units) Turbidity: 83.9 DO: 7.76
 (NTU) Specific Conductivity: 2.01 ORP: 269.3
 (µmhos/cm) Sampling Method/ Material: masterflex dedicated bladder pump, low flow

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
<u>3</u>	40 mL glass vial with HCl for VOA analysis (8260)	
<u>2</u>	1 L glass vial with no preservative for SVOC analysis (8270)	
<u>0</u>	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
<u>2 4</u>	1 L glass vial with no preservative for PCB analysis	
<u>2</u>	1 L glass vial with no preservative for PCB analysis (filtered)	
<u>1</u>	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
<u>0</u>	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition 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)

Aroclors ☒ YES / ☐ NO
 Homologs ☒ YES / ☐ NO

PESTICIDES (8141)

Tetraethylthiopyrophosphate / Sulfotep ☒ YES / ☐ NO
 Parathion ☒ YES / ☐ NO

METALS (6010)

Beryllium ☒ YES / ☐ NO
 Cobalt ☒ YES / ☐ NO
 Manganese ☒ YES / ☐ NO

MERCURY (7470)

Mercury ☒ YES / ☐ NO

GROUNDWATER SAMPLING FORM

GSI Job No.: <u>0422</u>		Date: <u>4/13/23</u>	Personnel: <u>JA</u>
Project: <u>Solutia Anniston RCRA GW Sampling</u>		Client: <u>Solutia</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>MW-08</u>	Begin Time: <u>1700</u>	End Time: <u>1750</u>	
Weather: <u>cloudy, cool</u>	Site Conditions: _____		
COC ID #1: <u>MW-08</u> = Original Sample	COC ID #2: <u>—</u> = Duplicate		
COC ID #3: <u>—</u> = Field Blank	COC ID #4: <u>—</u> = MS/MSD		
COC ID #5: <u>—</u> = Original Sample (Filtered)	COC ID #6: <u>—</u> = Duplicate (Filtered)		

SAMPLING DATA / FIELD PARAMETERS

Temperature: <u>17.67</u> (°F / °C)	Color/ Appearance: <u>clear</u>
pH: <u>6.31</u> (Standard Units)	Odor: <u>none</u>
Turbidity: <u>13.7</u> (NTU)	DO: <u>1.24</u> (mg/L)
Conductivity: <u>0.34</u> (µmhos/cm)	ORP: <u>150.3</u> (mV)
Sampling Method/ Material: <u>dedicated bladder pump with teflon lined tubing</u>	

CONTAINER & ANALYSES DESCRIPTION

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

PCBs (8082)

Aroclors: YES / NO
 Homologs: YES / NO

PESTICIDES (8141)

Tetraethylthiopyrophosphate /
 Sulfotep: YES / NO
 Parathion: YES / NO

METALS (6010)

Beryllium: YES / NO
 Cobalt: YES / NO
 Manganese: YES / NO

MERCURY (7470)

Mercury: YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 0002 Date: 4/13/23 Personnel: JSC, JA
 Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-9A Begin Time: 1549 End Time: 1655
 Weather: overcast, some rain Site Conditions: dry-ish
 COC ID #1: MW-9A = Original Sample COC ID #2: n/a = Duplicate
 COC ID #3: n/a = Field Blank COC ID #4: n/a = MS/MSD
 COC ID #5: n/a = Original Sample (Filtered) COC ID #6: n/a = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 18.89 °C Color/ Appearance: clear
 pH: 5.14 Odor: none
 Turbidity: 1.97 DO: 5.28
 Conductivity: 0.10 (mg/L) 243.3
 (µmhos/cm) ORP:
 Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
<u>3</u>	40 mL glass vial with HCl for VOA analysis (8260)	
<u>2</u>	1 L glass vial with no preservative for SVOC analysis (8270)	
<u>2</u>	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
<u>2</u>	1 L glass vial with no preservative for PCB analysis	
<u>0</u>	1 L glass vial with no preservative for PCB analysis (filtered)	
<u>2</u>	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
<u>0</u>	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: some kinks in water line, but didn't see any leaks

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)

Tetraethylthiopyrophosphate / Sulfotep ☒ YES / ☐ NO
 Parathion ☒ YES / ☐ NO

METALS (6010)

Beryllium ☒ YES / ☐ NO
 Cobalt ☒ YES / ☐ NO
 Manganese ☒ YES / ☐ NO

MERCURY (7470)

Mercury ☒ YES / ☐ NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6495 Date: 4/11/2023 Personnel: JSC
 Project: RCRA Semi-Annual GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-11A Begin Time: 1914 End Time: 2010
 Weather: clear Site Conditions: clean
 COC ID #1: MW-11A = Original Sample COC ID #2: N/A = Duplicate
 COC ID #3: N/A = Field Blank COC ID #4: N/A = MS/MSD
 COC ID #5: N/A = Original Sample (Filtered) COC ID #6: N/A = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 16.67 Color: cloudy brown
 (°F / °C) pH: 7.91 Appearance: cloudy brown
 (Standard Units) Turbidity: 45.9 DO: 5.35
 (NTU) Specific Conductivity: 0.24 (mg/L)
 (µmhos/cm) ORP: 123.5
 (mV) Sampling Method/
 Material: dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
0	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 <u>bladder</u>	1 L glass vial with no preservative for PCB analysis	
0	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
 o,o,o-Triethylphosphorothioate YES / NO

PCBs (8082)

Aroclors YES / NO
 Homologs YES / NO

PESTICIDES (8141)

Tetraethylthiopyrophosphate /
 Sulfotep YES / NO
 Parathion YES / NO

METALS (8010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6495 Date: 4/11/23 Personnel: EGK
 Project: Ammonia April Monitoring Event Client: Solutra Page: 1 of 1

Well ID: MW-12A Begin Time: 1749 End Time: 1848
 Weather: Sunny Site Conditions: good, rocky
 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: 17.14 Color: clear
 (°F / °C) pH: 7.38 Appearance: no odor
 (Standard Units) Turbidity: 1.19 DO: 3.84
 (NTU) Specific Conductivity: 0.36 ORP: 127.2
 (µmhos/cm) Sampling Method/
 Material: master flux, low flow, dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
0	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	
0	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: fair, lots of bug activity but ports have covers

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,p-Triethylphosphorothioate YES / NO

PCBs (8082)

Aroclors YES / NO
 Homologs YES / NO

PESTICIDES (8141)

Tetraethylthiopyrophosphate /
 Sulfotep YES / NO
 Parathion YES / NO

METALS (8010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: <u>6495/617</u>	Date: <u>4/15/23</u>	Personnel: <u>JSC</u>
Project: <u>Solutia Eastman Amistia</u>	Client: <u>Solutia</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>MW-12A</u>	Begin Time: <u>1224</u>	End Time: <u>1252</u>
Weather: <u>Sunny</u>	Site Conditions: <u>dry</u>	
COC ID #1: <u>MW-12A</u> = Original Sample	COC ID #2: <u>n/a</u> = Duplicate	
COC ID #3: <u>N/A</u> = Field Blank	COC ID #4: <u>N/A</u> = MS/MSD	
COC ID #5: <u>N/A</u> = Original Sample (Filtered)	COC ID #6: <u>N/A</u> = Duplicate (Filtered)	

SAMPLING DATA / FIELD PARAMETERS

Temperature: <u>17.52</u> (°F / °C)	Color: <u>clear</u>
pH: <u>7.63</u> (Standard Units)	Appearance: <u>clear</u>
Turbidity: <u>2.61</u> (NTU)	DO: <u>3.75</u> (mg/L)
Specific Conductivity: <u>309.17</u> (µmhos/cm)	ORP: <u>46.4</u> (mV)
Sampling Method/ Material: <u>dedicated bladder pump</u>	

CONTAINER & ANALYSES DESCRIPTION

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

REMARKS

Condition 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)

Aroclors YES / NO
 Homologs YES / NO

PESTICIDES (8141)

Tetraethylthiopyrophosphate /
 Sulfotep YES / NO
 Parathion YES / NO

METALS (6010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6495 Date: 4/12/23 Personnel: JA
 Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1
 Well ID: MW-13A-R Begin Time: 922 End Time: 1045
 Weather: hot Site Conditions: good
 COC ID #1: MW-13A-R = Original Sample COC ID #2: — = Duplicate
 COC ID #3: — = Field Blank COC ID #4: — = MS/MSD
 COC ID #5: MW-13A-RF = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 16.09 Color/ Appearance: clear
 (°F) 6 pH: 7.62 Odor: none
 (Standard Units) Turbidity: 5.57 DO: 4.24
 (NTU) Conductivity: 0.30 (mg/L) 178.3
 (µmhos/cm) ORP: — (mV)
 Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
<u>—</u>	40 mL glass vial with HCl for VOA analysis (8260)	
<u>2</u>	1 L glass vial with no preservative for SVOC analysis (8270)	
<u>2</u>	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
<u>2</u>	1 L glass vial with no preservative for PCB analysis	
<u>2</u>	1 L glass vial with no preservative for PCB analysis (filtered)	<u>on hold</u>
<u>—</u>	250 mL plastic with HNO ₃ for metals analysis (see COC for exact metals)	
<u>—</u>	250 mL plastic with HNO ₃ 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,c-Triethylphosphorothioate YES / NO

PCBs (8082)

Aroclors YES / NO
 Homologs YES / NO

PESTICIDES (8141)

Tetraethylthiopyrophosphate /
 Sulfotep YES / NO
 Parathion YES / NO

METALS (6010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 442 6495 Date: 4/15/23 Personnel: JA
 Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1
 Well ID: MW-14 Begin Time: 1113 End Time: 1145
 Weather: Sunny, hot Site Conditions: good
 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: 18.59 Color/ Appearance: cloudy
 (°F / °C) pH: 7.30 Odor: no odor
 (Standard Units) Turbidity: 448 DO: 0.31
 (NTU) Conductivity: 0.21 (mg/L) ORP: 206.5
 (µmhos/cm) Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

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

Tetraethylthiopyrophosphate / Sulfotep: YES / NO
 Parathion: YES / NO

METALS (6010)

Beryllium: YES / NO
 Cobalt: YES / NO
 Manganese: YES / NO

MERCURY (7470)

Mercury: YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 0495 Date: 4/12/23 Personnel: EGK
 Project: Anniston April Client: Solutia Page: 1 of 1

Well ID: MW-15 Begin Time: 1430 End Time: 1530
 Weather: Sunny, warm Site Conditions: 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: 20.56 Color: clear
 (°F / °C)
 pH: 6.38 Appearance: clear, no odor
 (Standard Units)
 Turbidity: 0.27 DO: 1.96
 (NTU) (mg/L)
 Specific Conductivity: 0.31 ORP: 167.5
 (µmhos/cm) (mV)
 Sampling Method/
 Material: low flow dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

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

REMARKS

Condition of well:

good, pump stuck

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)

Tetraethylthiopyrophosphate /
 Sulfotep YES / NO
 Parathion YES / NO

METALS (8010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6495 Date: 4/12/23 Personnel: EGK
 Project: Anniston April Event Client: Solutia Page: 1 of 1

Well ID: MW-16 Begin Time: 1005 End Time: 1712
 Weather: Warm, sunny Site Conditions: _____
 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-14F = Original Sample (Filtered) COC ID #6: - = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 21.54 Color: clear, no odor
 (°F / °C) pH: 4.94 Appearance: clear
 (Standard Units) Turbidity: 2.47 DO: 0.81
 (NTU) Specific Conductivity: 0.05 ORP: 216.16
 (µmhos/cm) Sampling Method/ Material: dedicated bladder pump, low flow

CONTAINER & ANALYSES DESCRIPTION

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

REMARKS

Condition of well:

good, gravel

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)

Tetraethylthiopyrophosphate / Sulfotep ☒ YES / ☐ NO
 Parathion ☒ YES / ☐ NO

METALS (6010)

Beryllium ☒ YES / ☐ NO
 Cobalt ☒ YES / ☐ NO
 Manganese ☒ YES / ☐ NO

MERCURY (7470)

Mercury ☒ YES / ☐ NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6495 Date: 4/13/23 Personnel: JA, JSC
 Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1
 Well ID: MW-20A Begin Time: 1005 End Time: 1305
 Weather: windy, cold, drizzle Site Conditions: good
 COC ID #1: MW-20A = Original Sample COC ID #2: Field Duplicate 1 = Duplicate
 COC ID #3: — = Field Blank COC ID #4: MW-20A = MS/MSD
 COC ID #5: MW-20AF = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 10.57 Color/ Appearance: clear
 (°F / °C) pH: 8.01 Odor: slight odor
 (Standard Units) Turbidity: 55.0 DO: 0.33
 (NTU) Conductivity: 1.06 (mg/L) ORP: -90.7
 (µmhos/cm) Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

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

Tetraethylthiopyrophosphate /
 Sulfotep ☒ YES / ☐ NO
 Parathion ☒ YES / ☐ NO

METALS (6010)

Beryllium YES ☒ NO
 Cobalt ☒ YES / ☐ NO
 Manganese YES ☒ NO

MERCURY (7470)

Mercury ☒ YES / ☐ NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 0422 6495 Date: 4/12/23 Personnel: JA, JSO
 Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1
 Well ID: OW-06A Begin Time: 1515 End Time: 1600
 Weather: hot Site Conditions: good
 COC ID #1: OW-06A = 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: 18.20 Color/ Appearance: clear
 (°F / °C) 4.90 pH: 4.90 Odor: none
 (Standard Units) Turbidity: 13.5 DO: 6.20
 (NTU) Conductivity: 0.03 (mg/L)
 (µmhos/cm) ORP: 282.1 (mV)
 Sampling Method/
 Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
<u>3</u>	40 mL glass vial with HCl for VOA analysis (8280)	
<u>2</u>	1 L glass vial with no preservative for SVOC analysis (8270)	
<u>2</u>	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
<u>2</u>	1 L glass vial with no preservative for PCB analysis	
<u>0</u>	1 L glass vial with no preservative for PCB analysis (filtered)	
<u>1</u>	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
<u>0</u>	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well:

good - had dirt in air line from ants (?)
need to place caps

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)

Tetraethylthiopyrophosphate /
 Sulfotep YES / NO
 Parathion YES / NO

METALS (6010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6495 Date: 4/16/23 Personnel: JA
 Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1
 Well ID: OW-DBA Begin Time: 1103 End Time: 1200
 Weather: windy, cool Site Conditions: good
 COC ID #1: OW-DBA = Original Sample COC ID #2: - = Duplicate
 COC ID #3: - = Field Blank COC ID #4: - = MS/MSD
 COC ID #5: OW-DBA F = Original Sample (Filtered) COC ID #6: - = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 18.65 Color/ Appearance: clear
 (°F / °C) 6.78 Odor: none
 pH: 5.21 DO: 4.15
 (Standard Units) Turbidity: 0.22 (mg/L)
 (NTU) Conductivity: 194.0
 (µmhos/cm) ORP: - (mV)
 Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

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

Tetraethylthiopyrophosphate / Sulfotep: YES / NO
 Parathion: YES / NO

METALS (6010)

Beryllium: YES / NO
 Cobalt: YES / NO
 Manganese: YES / NO

MERCURY (7470)

Mercury: YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6497 Date: 4/14/23 Personnel: JA
 Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1
 Well ID: OW-10 Begin Time: 1139 End Time: 1345
 Weather: cloudy, warm Site Conditions: very large ant pile, otherwise good
 COC ID #1: OW-10 = Original Sample COC ID #2: Field duplicate 3 = Duplicate
 COC ID #3: — = Field Blank COC ID #4: OW-10 = MS/MSD
 COC ID #5: OW-10F = Original Sample (Filtered) COC ID #6: Field duplicate 3F = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 100.64 Color/ Appearance: clear
 (°F) 7.69 pH: 7.69 Odor: none
 (Standard Units) Turbidity: 15.8 DO: 4.87
 (NTU) Conductivity: 0.85 (mg/L) ORP: 174.9
 (µmhos/cm) Sampling Method/ Material: dedicated bladder pump with teflon-lined tubing portable bladder pump

CONTAINER & ANALYSES DESCRIPTION

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

REMARKS

Condition of well:

good - still not well cap - there is a temp
glove and rubberband on the PVC
pvc

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / NO
 1,2,4-Trichlorobenzene: YES / NO
 Trichloroethane: 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)

Tetraethylthiopyrophosphate / Sulfotep YES / NO
 Parathion YES / NO

METALS (6010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: <u>0495</u>	Date: <u>4/17/23</u>	Personnel: <u>EGK</u>
Project: <u>Anniston April Event</u>	Client: <u>Solutia</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>OW-15</u>	Begin Time: <u>1237</u>	End Time: <u>1350</u>
Weather: <u>Sunny, warm</u>	Site Conditions: <u>good, grassy</u>	
COC ID #1: <u>OW-15</u> = Original Sample	COC ID #2: <u>-</u> = Duplicate	
COC ID #3: <u>-</u> = Field Blank	COC ID #4: <u>-</u> = MS/MSD	
COC ID #5: <u>OW-15F</u> = Original Sample (Filtered)	COC ID #6: <u>-</u> = Duplicate (Filtered)	

SAMPLING DATA / FIELD PARAMETERS

Temperature: <u>18.21</u> (°F / °C)	Color: <u>clear</u>
pH: <u>6.05</u> (Standard Units)	Appearance: <u>no odor</u>
Turbidity: <u>1.19</u> (NTU)	DO: <u>3.93</u> (mg/L)
Specific Conductivity: <u>125.94</u> (µmhos/cm)	ORP: <u>193.5</u> (mV)
Sampling Method/ Material: <u>dedicated bladder pump</u>	

CONTAINER & ANALYSES DESCRIPTION

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

Tetraethylthiopyrophosphate /
Sulfotepp: ☒ YES / ☐ NO
 Parathion: ☒ YES / ☐ NO

METALS (8010)

Beryllium: ☒ YES / ☐ NO
 Cobalt: ☒ YES / ☐ NO
 Manganese: ☒ YES / ☐ NO

MERCURY (7470)

Mercury: ☒ YES / ☐ NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6495 Date: 4/17/23 Personnel: EGL
 Project: Anniston April Event Client: Solutia Page: 1 of 1
 Well ID: OW-10A Begin Time: 1010 End Time: 1148
 Weather: Sunny, Warmish Site Conditions: good, grassy
 COC ID #1: OW-10A = Original Sample COC ID #2: - = Duplicate
 COC ID #3: - = Field Blank COC ID #4: - = MS/MSD
 COC ID #5: OW-10AF = Original Sample (Filtered) COC ID #6: - = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 18.23 Color: clear
 (°F / °C)
 pH: 5.29 Appearance: no odor
 (Standard Units)
 Turbidity: 9.04 DO: 0.27
 (NTU) (mg/L)
 Specific Conductivity: 140.60 ORP: 208.5
 (µmhos/cm) (mV)
 Sampling Method/ Material: master flex dedicated bladder pump, low-flow

CONTAINER & ANALYSES DESCRIPTION

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

Tetraethylthiopyrophosphate / Sulfotep YES / NO
 Parathion YES / NO

METALS (6010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: <u>0495</u>	Date: <u>4/16/23</u>	Personnel: <u>EGK</u>
Project: <u>Anniston April Event</u>	Client: <u>Solutia</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>OW-21A</u>	Begin Time: <u>1100</u>	End Time: <u>1155</u>
Weather: <u>cloudy, sprinkles</u>	Site Conditions: <u>good, grassy</u>	
COC ID #1: <u>OW-21A</u> = Original Sample	COC ID #2: <u>-</u> = Duplicate	
COC ID #3: <u>-</u> = Field Blank	COC ID #4: <u>-</u> = MS/MSD	
COC ID #5: <u>OW-21AF</u> = Original Sample (Filtered)	COC ID #6: <u>-</u> = Duplicate (Filtered)	

SAMPLING DATA / FIELD PARAMETERS

Temperature: <u>20.56</u> (°F / °C)	Color: <u>clear</u>
pH: <u>4.63</u> (Standard Units)	Appearance: <u>odor</u>
Turbidity: <u>20.0</u> (NTU)	DO: <u>0.45</u> (mg/L)
Specific Conductivity: <u>0.10</u> (µmhos/cm)	ORP: <u>148.2</u> (mV)
Sampling Method/ Material: <u>low-flow dedicated bladder pump w/ mask reflux</u>	

CONTAINER & ANALYSES DESCRIPTION

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

Tetraethylthiopyrophosphate /
Sulfotep ☒ YES / NO
 Parathion ☒ YES / NO

METALS (6010)

Beryllium YES / ☒ NO
 Cobalt ☒ YES / NO
 Manganese ☒ YES / NO

MERCURY (7470)

Mercury ☒ YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: <u>6495</u>	Date: <u>4/13/23</u>	Personnel: <u>EGK</u>
Project: <u>Set Anniston Apal Event</u>	Client: <u>Solutia</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>OW-22</u>	Begin Time: <u>1805</u>	End Time: <u>1845</u>
Weather: <u>cloudy</u>	Site Conditions: <u>good, grassy</u>	
COC ID #1: <u>OW-22</u> = Original Sample	COC ID #2: <u>-</u> = Duplicate	
COC ID #3: <u>-</u> = Field Blank	COC ID #4: <u>-</u> = MS/MSD	
COC ID #5: <u>OW-22 F</u> = Original Sample (Filtered)	COC ID #6: <u>-</u> = Duplicate (Filtered)	

SAMPLING DATA / FIELD PARAMETERS

Temperature: <u>18.94</u> (°F / °C)	Color: <u>clear</u>
pH: <u>4.86</u> (Standard Units)	Appearance: <u>no odor</u>
Turbidity: <u>12.6</u> (NTU)	DO: <u>2.12</u> (mg/L)
Specific Conductivity: <u>0.07</u> (µmhos/cm)	ORP: <u>304.7</u> (mV)
Sampling Method/ Material: <u>low flow dedicated bladder pump</u>	

CONTAINER & ANALYSES DESCRIPTION

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

Tetrathylthiopyrophosphate /
Sulfotep ☒ YES / ☐ NO
 Parathion ☒ YES / ☐ NO

METALS (6010)

Beryllium ☒ YES / ☐ NO
 Cobalt ☒ YES / ☐ NO
 Manganese ☒ YES / ☐ NO

MERCURY (7470)

Mercury ☒ YES / ☐ NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6497 Date: 4/17/23 Personnel: JA
 Project: CEPCLA GW Monitoring Client: Solution Page: 1 of 1
 Well ID: OWR-11 Begin Time: 1116 End Time: 1145
 Weather: Sunny, cool Site Conditions: good
 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: 18.19 Color: clear
 (°F) 3.68 pH: — Appearance: slight odor
 (Standard Units) Turbidity: 9.50 DO: 2.82
 (NTU) Specific Conductivity: 0.32 (mg/L) ORP: 327.0
 (µmhos/cm) Sampling Method/ Material: portable bladder pump
 (mV)

CONTAINER & ANALYSES DESCRIPTION

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

REMARKS

Condition of well: well vault had ant mound in it

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)

Tetraethylthiopyrophosphate / Sulfotapp YES / NO
 Parathion YES / NO

METALS (6010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSi Job No.: 0122 4/14/23 CERCLA Date: 6497 Personnel: JA
 Project: Solutia Anniston CERCLA GW Sampling Client: Solutia Page: 1 of 1
 Well ID: OWP-13 Begin Time: 1548 End Time: 1635
 Weather: sunny, windy Site Conditions: good
 COC ID #1: OWP-13 = Original Sample COC ID #2: — = Duplicate
 COC ID #3: — = Field Blank COC ID #4: — = MS/MSD
 COC ID #5: OWP-13F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 19.76 Color/ Appearance: clear
 (°F) 6.76 pH: — Odor: none
 (Standard Units) Turbidity: 5.85 DO: 5.83
 (NTU) Conductivity: 0.18 (mg/L) ORP: 201.8
 (µmhos/cm) Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
—	40 mL glass vial with HCl for VOA analysis (8280)	
—	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)

Aroclors YES / NO
 Homologs YES / NO

PESTICIDES (8141)

Tetraethylthiopyrophosphate /
 Sulfotep YES / NO
 Parathion YES / NO

METALS (6010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6497 Date: 4/14/23 Personnel: Eak
 Project: Anniston April Event Client: Solutia Page: 1 of 1
 Well ID: OWR-14D Begin Time: 1150 End Time: 1210
 Weather: partly sunny, warm Site Conditions: good, grassy
 COC ID #1: OWR-14D = Original Sample COC ID #2: duplicate 2 = Duplicate
 COC ID #3: - = Field Blank COC ID #4: - = MS/MSD
 COC ID #5: OWR-14DF = Original Sample (Filtered) COC ID #6: duplicate 2-F = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 21.70 Color: clear
 ("F / °C")
 pH: 6.58 Appearance: no odor
 (Standard Units)
 Turbidity: 35.9 DO: 8.66
 (NTU) (mg/L)
 Specific Conductivity: 0.00 ORP: 178.1
 (µmhos/cm) (mV)
 Sampling Method/ Material: low flow non-dedicated 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)	
0	1 L glass vial with no preservative for PCB analysis	
0	1 L glass vial with no preservative for PCB analysis (filtered)	
2	250 mL plastic with HNO ₃ for metals analysis (see COC for exact metals)	
2	250 mL plastic with HNO ₃ 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)

Tetraethylthiopyrophosphate /
 Sulfotep YES / NO
 Parathion YES / NO

METALS (8010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 10497 Date: 4/13/23 Personnel: EGK, BWA, JMM
 Project: Anniston April Event Client: Solutia Page: 1 of 1

Well ID: OWR-15D Begin Time: 1048 End Time: 1125
 Weather: cloudy, light showers Site Conditions: good
 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: 17.09 Color: clear
 (°F / °C)
 pH: 5.84 Appearance: no odor
 (Standard Units)
 Turbidity: 15.1 DO: 0.40
 (NTU)
 Specific Conductivity: 0.15 ORP: 144.2
 (µmhos/cm)
 Sampling Method/
 Material: low flow non dedicated 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)	
2	1 L glass vial with no preservative for PCB analysis	
2	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
 o,o,o-Triethylphosphorothioate YES / NO

PCBs (8082)

Aroclors YES / NO
 Homologs YES / NO

PESTICIDES (8141)

Tetraethylthiopyrophosphate /
 Sulfotep YES / NO
 Parathion YES / NO

METALS (6010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6497 Date: 4/12/23 Personnel: EGK
 Project: Amiston April Event Client: Solutia Page: 1 of 1
 Well ID: DWR-035 Begin Time: 1240 End Time: 1255
 Weather: Sunny / warm Site Conditions: good, gravel
 COC ID #1: DWR-035 = 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: 20.84 Color: clear
 (°F / °C)
 pH: 5.29 Appearance: no odor
 (Standard Units)
 Turbidity: 29.4 DO: 1.56
 (NTU) (mg/L)
 Specific Conductivity: 0.09 ORP: 222.8
 (µmhos/cm) (mV)
 Sampling Method/ Material: low flow reusable 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)	
Z	1 L glass vial with no preservative for PCB analysis	
0	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
 o,o,o-Triethylphosphorothioate YES / NO

PCBs (8082)

Aroclors YES / NO
 Homologs YES / NO

PESTICIDES (8141)

Tetraethylthiopyrophosphate / Sulfotepp YES / NO
 Parathion YES / NO

METALS (6010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 10497 Date: 4/15/23 Personnel: EGK
 Project: Anniston April Event Client: Solutia Page: 1 of 1
 Well ID: T-04 Begin Time: 1253 End Time: 1330
 Weather: Sunny, warm Site Conditions: good, grassy
 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-04F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 20.94 Color: clear
 (°F / °C)
 pH: 6.95 Appearance: no odor
 (Standard Units)
 Turbidity: 41.4 DO: 9.43
 (NTU)
 Specific Conductivity: 0.20 ORP: 113.4
 (µmhos/cm)
 Sampling Method/ Material: low-flow non-dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
8	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)	
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)

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

GROUNDWATER SAMPLING FORM

GSI Job No.: 0497 Date: 4/13/23 Personnel: EGK
 Project: Amston April Event Client: Solutia Page: 1 of 1

Well ID: T-06 Begin Time: 1408 End Time: 1440
 Weather: cloudy, rainy, cool Site Conditions: good
 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: 19.22 Color: clear
 (°F / °C)
 pH: 7.40 Appearance: no odor
 (Standard Units)
 Turbidity: 22.2 DO: 0.52
 (NTU)
 Specific Conductivity: 0.78 ORP: 115.5
 (µmhos/cm)
 Sampling Method/ Material: low-flow non-dedicated 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)	
2	1 L glass vial with no preservative for PCB analysis	
2	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, but water leaks into well vault

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 (8002)

Aroclors YES / NO
 Homologs YES / NO

PESTICIDES (8141)

Tetraethylthiopyrophosphate /
 Sulfotep YES / NO
 Parathion YES / NO

METALS (8010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6497 Date: 4/11/23 Personnel: JA
 Project: Solutia Anniston RFA GW Sampling Client: Solutia Page: 1 of 1
 Well ID: T-10 Begin Time: 1534 End Time: 1638
 Weather: sunny, hot Site Conditions: good
 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 #6: - = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 19.90 Color/ Appearance: clear
 (°F / °C) 5.55 Odor: none
 pH: 18.8 DO: 8.36
 (Standard Units) Turbidity: 0.17 (mg/L)
 (NTU) Conductivity: portable ORP: 211.4
 (µmhos/cm) Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

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

Tetraethylthiopyrophosphate / Sulfotep YES / NO
 Parathion YES / NO

METALS (6010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 10497 Date: 4/14/23 Personnel: EGK
 Project: Anniston April Event Client: Solutia Page: 1 of 1
 Well ID: T-18 Begin Time: 1615 End Time: 1740
 Weather: cloudy Site Conditions: good
 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: 20.80 Color: mostly clear
 (°F / °C)
 pH: 5.66 Appearance: slight odor
 (Standard Units)
 Turbidity: 43.9 DO: 6.70
 (NTU)
 Specific Conductivity: 0.00 ORP: 70.2
 (µmhos/cm)
 Sampling Method/ Material: low-flow non dedicated 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
 o,o,o-Triethylphosphorothioate YES / NO

PCBs (8082)

Aroclors 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

GROUNDWATER SAMPLING FORM

GSI Job No.: 6497 Date: 4/16/23 Personnel: JSC
 Project: Eastman Solution Client: Solstice Page: 1 of 1
 Well ID: T-20 Begin Time: 1207 End Time: 1240
 Weather: cloudy, cool Site Conditions: wet
 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: 18.54 Color: cloudy brown
 (°F / °C) pH: 3.90 Appearance: 11
 (Standard Units) Turbidity: 107 DO: 9.95
 (NTU) Specific Conductivity: 246.09 (mg/L)
 (µmhos/cm) ORP: 445.3
 (mV) Sampling Method/ Material: portable bladder pump

CONTAINER & ANALYSES DESCRIPTION

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

Tetraethylthiopyrophosphate /
 Sulfotepp YES / NO
 Parathion YES / NO

METALS (6010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 12495 Date: 4/15/23 Personnel: EAK
 Project: Anniston April Event Client: Solutia Page: 1 of 1
 Well ID: WEL-01 Begin Time: 1102 End Time: 1135
 Weather: Sunny, warm Site Conditions: good
 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: 19.75 Color: clear
 (°F / °C)
 pH: 5.24 Appearance: no odor
 (Standard Units)
 Turbidity: 6.96 DO: 4.79
 (NTU) (mg/L)
 Specific Conductivity: 0.06 ORP: 188.5
 (µmhos/cm) (mV)
 Sampling Method/
 Material: low flow peristaltic, master flex

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)	
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, kinked about 4 ft down, already known

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)

Tetraethylthiopyrophosphate /
 Sulfotepp YES / NO
 Parathion YES / NO

METALS (8010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6497 Date: 4/12/23 Personnel: JA, JSC
 Project: CERCLA Semi-Annual GW Sampling Client: Solutia Page: 1 of 1
 Well ID: WEL-04 Begin Time: 1806 End Time: 1930
 Weather: Sunny, hot Site Conditions: good
 COC ID #1: WEL-04 = Original Sample COC ID #2: — = Duplicate
 COC ID #3: — = Field Blank COC ID #4: — = MS/MSD
 COC ID #5: WEL-04F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 19.01 Color: clear
 (°F / °C) 67
 pH: 4.71 Appearance: clear / no odor
 (Standard Units)
 Turbidity: 3.67 DO: 4.44
 (NTU) (mg/L)
 Specific Conductivity: 0.05 ORP: 292.8
 (µmhos/cm) (mV)
 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 HNO ₃ for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO ₃ 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)

Tetraethylthiopyrophosphate /
 Sulfotep YES / NO
 Parathion YES / NO

METALS (8010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: <u>6495/7</u>	Date: <u>6/13/23</u>	Personnel: <u>JA, JSC</u>
Project: <u>Eastman Solvita Anniston</u>	Client: _____	Page: <u>1</u> of <u>1</u>
Well ID: <u>OW-10</u>	Begin Time: <u>1442</u>	End Time: <u>~1520</u>
Weather: <u>Sunny</u>	Site Conditions: <u>dry</u>	
COC ID #1: <u>OW-10</u> = Original Sample	COC ID #2: <u>Field Duplicate 3</u> = Duplicate	
COC ID #3: _____ = Field Blank	COC ID #4: <u>OW-10</u> = MS/MSD	
COC ID #5: <u>OW-10F</u> = Original Sample (Filtered)	COC ID #6: <u>Field Duplicate 3F</u> = Duplicate (Filtered)	

SAMPLING DATA / FIELD PARAMETERS

Temperature: <u>19.47°C</u> (°F / °C)	Color: <u>clear</u>
pH: <u>5.96</u> (Standard Units)	Appearance: <u>clear</u>
Turbidity: <u>13.6</u> (NTU)	DO: <u>9.39</u> (mg/L)
Specific Conductivity: <u>807.62</u> (µmhos/cm)	ORP: <u>217.9</u> (mV)
Sampling Method/ Material: <u>portable bladder pump</u>	

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	
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, slightly overgrown

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)

Tetraethylthiopyrophosphate /
 Sulfotep YES / NO
 Parathion YES / NO

METALS (8010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: <u>6497</u>	Date: <u>6/14/23</u>	Personnel: <u>JA JSC</u>
Project: <u>Eastman Solvix Anniston</u>	Client: <u>Solvix</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>T-04</u>	Begin Time: <u>1027</u>	End Time: <u>~1115</u>
Weather: <u>rainy</u>	Site Conditions: <u>wet</u>	
COC ID #1: <u>T-04</u> = Original Sample	COC ID #2: _____ = Duplicate	
COC ID #3: _____ = Field Blank	COC ID #4: _____ = MS/MSD	
COC ID #5: <u>T-04F</u> = Original Sample (Filtered)	COC ID #6: _____ = Duplicate (Filtered)	

SAMPLING DATA / FIELD PARAMETERS

Temperature: <u>20.22</u> (°F / °C)	Color: <u>clear</u>
pH: <u>6.18</u> (Standard Units)	Appearance: <u>clear</u>
Turbidity: <u>5.50</u> (NTU)	DO: <u>0.23</u> (mg/L)
Specific Conductivity: <u>198.55</u> (µmhos/cm)	ORP: <u>147.3</u> (mV)
Sampling Method/ Material: <u>portable bladder pump</u>	

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)	
<u>2</u>	1 L glass vial with no preservative for PCB analysis	
<u>2</u>	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, overgrown

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)

Tetraethylthiopyrophosphate /
 Sulfotep YES / NO
 Parathion YES / NO

METALS (6010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: <u>6497-102</u>	Date: <u>6/14/23</u>	Personnel: <u>JA, JSC</u>
Project: <u>CERCLA</u>	Client: <u>Solution</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>T-1B</u>	Begin Time: <u>1403</u>	End Time: <u>~1450</u>
Weather: <u>cloudy</u>	Site Conditions: <u>good</u>	
COC ID #1: <u>T-1B</u> = Original Sample	COC ID #2: <u>-</u> = Duplicate	
COC ID #3: <u>-</u> = Field Blank	COC ID #4: <u>-</u> = MS/MSD	
COC ID #5: <u>T-1BF</u> = Original Sample (Filtered)	COC ID #6: <u>-</u> = Duplicate (Filtered)	

SAMPLING DATA / FIELD PARAMETERS

Temperature: <u>22.41</u> (°F / °C) pH: <u>5.49</u> (Standard Units) Turbidity: <u>212</u> (NTU) Specific Conductivity: <u>199.74</u> (µmhos/cm) Sampling Method/ Material: <u>portable bladder pump</u>	Color: <u>brownish</u> Appearance: <u>cloudy</u> DO: <u>5.41</u> (mg/L) ORP: <u>89.8</u> (mV)
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CONTAINER & ANALYSES DESCRIPTION

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

Tetraethylthiopyrophosphate /
 Sulfotep YES / NO
 Parathion YES / NO

METALS (8010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6497-102 Date: 6/14/23 Personnel: JA, JSC
 Project: ANNISIA Client: SOLING EASTMAN Page: 1 of 1

Well ID: T-20 Begin Time: 902 End Time: ~942
 Weather: cloudy Site Conditions: wet

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-20F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 20.30 Color: clean
 (°F / °C)
 pH: 4.22 Appearance: clean
 (Standard Units)
 Turbidity: 15.7 DO: 1.52
 (NTU) (mg/L)
 Specific Conductivity: 237.60 ORP: 300.9
 (µmhos/cm) (mV)
 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)	
<u>2</u>	1 L glass vial with no preservative for PCB analysis	
<u>2</u>	1 L glass vial with no preservative for PCB analysis (filtered)	
	250 mL plastic with HNO ₃ for metals analysis (see COC for exact metals)	
	250 mL plastic with HNO ₃ 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)

Tetraethylthiopyrophosphate / Sulfotep YES / NO
 Parathion YES / NO

METALS (6010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6497 Date: 6/13/23 Personnel: JH, JSC
 Project: CERCLA GW Sampling Client: Solutia Page: 1 of 1

Well ID: WFL-01 Begin Time: 1700 End Time: 1730
 Weather: hot Site Conditions: good, dry
 COC ID #1: WFL-01 = Original Sample COC ID #2: — = Duplicate
 COC ID #3: — = Field Blank COC ID #4: — = MS/MSD
 COC ID #5: WFL-01F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 19.58 Color: clear
 (°F/°C) pH: 4.73 Appearance: clear
 (Standard Units) Turbidity: 0.71 DO: 3.81
 (NTU) Specific Conductivity: 40.96 ORP: 251.2
 (µmhos/cm) Sampling Method/ Material: peristaltic 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)	
—	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, but need to use peristaltic pump here bc bladder pump gets stuck. Missing well cap

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)

Tetraethylthiopyrophosphate / Sulfotepp YES / NO
 Parathion YES / NO

METALS (8010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GS1 Job No.: 6497 Date: 8/19/23 Personnel: MW, JSC, LCM
 Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1
 Well ID: T-9 Begin Time: 901 End Time: 1035
 Weather: partly cloudy, 80s Site Conditions: dry, mowed
 COC ID #1: T-09-R = Original Sample COC ID #2: Field Duplicate 4 = Duplicate
 COC ID #3: T-09-RF = Field Blank COC ID #4: MS/MSD
 COC ID #5: T-09-RF = Original Sample (Filtered) COC ID #6: Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS
 Temperature: 20.48°C Color/ Appearance: clear
 (°F / °C) pH: 5.40 Odor: no odor
 (Standard Units) Turbidity: 1.27 DO: 3.08
 (NTU) Conductivity: 149.00 (mg/L)
 (µmhos/cm) ORP: 191.0 (mV)
 Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION		
COLLECTED	CONTAINER & ANALYSES	NOTES
<u>0</u>	40 mL glass vial with HCl for VOA analysis (8260)	
<u>4</u>	1 L glass vial with no preservative for SVOC analysis (8270)	<u>4-Nitrophenol</u>
<u>4</u>	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	<u>Parathion</u>
<u>4</u>	1 L glass vial with no preservative for PCB analysis	<u>250 mL - Aroclors</u>
<u>2</u>	1 L glass vial with no preservative for PCB analysis (filtered)	<u>250 mL - Aroclors</u>
<u>0</u>	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
<u>0</u>	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS
 Condition of well: good, very recently installed

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)
 Tetraethylthiopyrophosphate / Sulfotep YES / NO
 Parathion YES / NO

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

MERCURY (7470)
 Mercury YES / NO

FALL 2023 SAMPLING LOGS

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GROUNDWATER SAMPLING FORM

GSI Job No.: 6495 Date: 10/17/2023 Personnel: EGK, LCM
 Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1
 Well ID: MW-013 Begin Time: 0906 End Time: 945
 Weather: cool, partly sunny Site Conditions: good, grassy and sloped
 COC ID #1: MW-013 = 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: 16.55 °C Color/ Appearance: clear
 (°F / °C)
 pH: 4.73 Odor: no odor
 (Standard Units)
 Turbidity: 5.32 DO: 7.01
 (NTU) (mg/L)
 Conductivity: 0.02 ORP: 249.5
 (µmhos/cm) (mV)
 Sampling Method/
 Material dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

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

REMARKS

Condition of well: 10/17/23 Filled
92.7 well purged dry - need to complete one Amber + fill 2 ambers.

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)

Tetraethylthiopyrophosphate / Sulfotep YES / NO
 Parathion YES / NO

METALS (6010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6495 Date: 10/17/23 Personnel: EGK, LCM
 Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1
 Well ID: MW-11A Begin Time: 1005 End Time: 1035
 Weather: Sunny, cool Site Conditions: good, rocky, flat
 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: 17.15 Color/ Appearance: clear
 (°F / °C) pH: 7.89 Odor: no odor
 (Standard Units) Turbidity: 8.16 DO: 5.55
 (NTU) Conductivity: 0.23 (mg/L) ORP: 128.6
 (µmhos/cm) Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
<u>—</u>	40 mL glass vial with HCl for VOA analysis (8280)	
<u>2</u>	1 L glass vial with no preservative for SVOC analysis (8270)	
<u>2</u>	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
<u>2</u>	1 L glass vial with no preservative for PCB analysis	
<u>0</u>	1 L glass vial with no preservative for PCB analysis (filtered)	
<u>0</u>	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
<u>0</u>	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)

Tetraethylthiopyrophosphate / Sulfotepp YES / NO
 Parathion YES / NO

METALS (8010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: <u>6495</u>		Date: <u>10/17/23</u>	Personnel: <u>EGK, LCM</u>
Project: <u>Solutia Anniston RCRA GW Sampling</u>		Client: <u>Solutia</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>MW-12A</u>	Begin Time: <u>1413</u>	End Time: <u>1440</u>	
Weather: <u>Sunny, Cool</u>	Site Conditions: <u>good</u>		
COC ID #1: <u>MW-12A</u> = Original Sample	COC ID #2: <u>—</u> = Duplicate		
COC ID #3: <u>—</u> = Field Blank	COC ID #4: <u>—</u> = MS/MSD		
COC ID #5: <u>—</u> = Original Sample (Filtered)	COC ID #6: <u>—</u> = Duplicate (Filtered)		

SAMPLING DATA / FIELD PARAMETERS

Temperature: <u>17.07</u> (°F / °C)	Color/ Appearance: <u>clear</u>
pH: <u>7.65</u> (Standard Units)	Odor: <u>none</u>
Turbidity: <u>0.59</u> (NTU)	DO: <u>5.14</u> (mg/L)
Conductivity: <u>0.27</u> (µmhos/cm)	ORP: <u>174.8</u> (mV)
Sampling Method/ Material <u>dedicated bladder pump with teflon lined tubing</u>	

CONTAINER & ANALYSES DESCRIPTION

COLLECTOR	CONTAINER & ANALYSES	NOTES
0	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. Pestic. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis <u>250 amber mt</u>	
0	1 L glass vial with no preservative for PCB analysis (filtered)	
8	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
8	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)

Tetraethylthiopyrophosphate /
 Sulfotep YES / NO
 Parathion YES / NO

METALS (8010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: W495 Date: 10/18/23 Personnel: EGK, LCM
 Project: Anniston October Event Client: Solutia Page: 1 of 1
 Well ID: MW-13A-R Begin Time: 943 End Time: 1013
 Weather: Sunny, cool Site Conditions: good, rocky
 COC ID #1: MW-13A-R = 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: 17.69 Color: clear
 (°F / °C) pH: 7.15 Appearance: clear, no odor
 (Standard Units) Turbidity: 2.51 DO: 4.34
 (NTU) Specific Conductivity: 0.29 (mg/L)
 (µmhos/cm) ORP: 184.2
 (mV) Sampling Method/ Material: low flow dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

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

REMARKS

Condition of well: good! - note pump had white buildup present on top half

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 (8092)

Aroclors YES / NO
 Homologs YES / NO

PESTICIDES (8141)

Tetraethylthiopyrophosphate / Sulfotepp YES / NO
 Parathion YES / NO

METALS (8010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: <u>6495</u>	Date: <u>10/18/23</u>	Personnel: <u>LCM, ECK</u>
Project: <u>October Event</u>	Client: <u>Solutia</u>	Page: <u>1</u> of <u>1</u>

Well ID: <u>MW-15</u>	Begin Time: <u>1623</u>	End Time: <u>1721</u>
Weather: <u>windy, sunny</u>	Site Conditions: <u>good, gravel</u>	

COC ID #1: <u>MW-15</u> = Original Sample	COC ID #2: _____ = Duplicate
COC ID #3: _____ = Field Blank	COC ID #4: <u>MW-15</u> = MS/MSD
COC ID #5: _____ = Original Sample (Filtered)	COC ID #8: _____ = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: <u>22.89 °C</u> (°F / °C)	Color: <u>clear colorless</u>
pH: <u>5.53</u> (Standard Units)	Appearance: <u>clear</u>
Turbidity: <u>8.50</u> (NTU)	DO: <u>0.25</u> (mg/L)
Specific Conductivity: <u>447.70</u> (µmhos/cm)	ORP: <u>194.7</u> (mV)
Sampling Method/ Material: <u>dedicated bladder pump w/ tubing</u>	

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
<u>9</u>	40 mL glass vial with HCl for VOA analysis (8260)	
<u>6</u>	1 L glass vial with no preservative for SVOC analysis (8270)	
<u>6</u>	1 L glass vial with no preservative for Organophosph. Pest. analysis (8141)	
<u>6</u>	1 L glass vial with no preservative for PCB analysis	
<u>0</u>	1 L glass vial with no preservative for PCB analysis (filtered)	
<u>3</u>	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
<u>0</u>	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)

Tetraethylthiopyrophosphate /
Sulfotep ☒ YES / ☐ NO
 Parathion ☒ YES / ☐ NO

METALS (8010)

Beryllium YES / ☒ NO
 Cobalt ☒ YES / ☐ NO
 Manganese YES / ☒ NO

MERCURY (7470)

Mercury YES / ☒ NO

GROUNDWATER SAMPLING FORM

GSI Job No.: <u>6495</u>	Date: <u>10/18/23</u>	Personnel: <u>EGK</u>
Project: <u>October Event</u>	Client: <u>Solutia</u>	Page: <u>1</u> of <u>1</u>
Well ID: <u>MW-16</u>	Begin Time: <u>1508</u>	End Time: <u>1536</u>
Weather: <u>Sunny, warm</u>	Site Conditions: <u>good, gravel</u>	
COC ID #1: <u>MW-16</u> = Original Sample	COC ID #2: <u>-</u> = Duplicate	
COC ID #3: <u>-</u> = Field Blank	COC ID #4: <u>-</u> = MS/MSD	
COC ID #5: <u>-</u> = Original Sample (Filtered)	COC ID #6: <u>-</u> = Duplicate (Filtered)	

SAMPLING DATA / FIELD PARAMETERS

Temperature: <u>21.47</u> (°F / °C)	Color: <u>bright green, no odor</u>
pH: <u>4.72</u> (Standard Units)	Appearance: <u>clear</u>
Turbidity: <u>5.83</u> (NTU)	DO: <u>0.47</u> (mg/L)
Specific Conductivity: <u>0.05</u> (µmhos/cm)	ORP: <u>228.0</u> (mV)
Sampling Method/ Material: <u>low flow dedicated bladder pump</u>	

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	
0	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)	
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)

Tetraethylthiopyrophosphate /
Sulfotep YES / NO
 Parathion YES / NO

METALS (8010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

GROUNDWATER SAMPLING FORM

GSI Job No.: 6495 Date: 10/18/23 Personnel: EGK
 Project: Amniston October Event Client: Solutia Page: 1 of 1
 Well ID: MW-20A Begin Time: 1328 End Time: 1415
 Weather: Sunny, warm Site Conditions: good, rocky
 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: 23.29 Color: none
 (°F / °C)
 pH: 6.95 Appearance: Clear, no odor
 (Standard Units)
 Turbidity: 20.8 DO: 0.43
 (NTU) (mg/L)
 Specific Conductivity: 1.09 ORP: -131.6
 (µmhos/cm) (mV)
 Sampling Method/ Material: low flow dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
<u>6</u>	40 mL glass vial with HCl for VOA analysis (8260)	
<u>4</u>	1 L glass vial with no preservative for SVOC analysis (8270)	
<u>4</u>	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
<u>4</u>	1 L glass vial with no preservative for PCB analysis	
<u>0</u>	1 L glass vial with no preservative for PCB analysis (filtered)	
<u>2</u>	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
<u>0</u>	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)

Tetraethylthiopyrophosphate / Sulfotep YES / NO
 Parathion YES / NO

METALS (8010)

Beryllium YES / NO
 Cobalt YES / NO
 Manganese YES / NO

MERCURY (7470)

Mercury YES / NO

**2023 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

Appendix D. Calibration Logs

SPRING 2023 CALIBRATION LOGS

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FIELD INSTRUMENT CALIBRATION LOG



GSI Job No.: 6495-6497 Date of Last Calibration: 4/4/2023
 Project Name: RCRA/CERCLA + EP sampling Date Instrument Calibrated and Used: 4/11/2023
 Name of Person Performing Calibration: Anniston, AL
JH

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. <u>Water Quality</u>	<u>In-Situ</u>	<u>AT600</u>	<u>C2912/E1102</u>
2. <u>Turbidity</u>	<u>Hanna</u>	<u>HI98703</u>	<u>C3112</u>
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	9.77	mg/L	N/A	642	9.84	16.30	+0.07	PASS
1	ORP	242.04 18.64	mV	12/30/23	647	242.10	15.72	-0.54	PASS
1	sp3 ^{sp3} cond.	1413	µmhos	6/30/23	655	1432 1463	15.17	+1.33%	PASS
1	pH	4.01	S.U.	9/30/24	825	4.11	15.55	+0.10	PASS
1	pH	7.00	S.U.	11/30/24	738	6.97	14.98	-0.03	PASS
1	pH	7.00 7.00	S.U.	12/30/24	828	6.92	15.40	-0.08	PASS
1	pH	10.00	S.U.	12/30/24	830	9.92	15.60	-0.08	PASS
2	turbidity	9.32	NTU	N/A	630	9.14	N/A	2%	Pass
2	↓	65.8	↓	↓	↓	66.0	N/A	0.3%	Pass
2	↓	548	↓	↓	↓	549	N/A	0.2%	Pass

Note:

- % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
- % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.
- ORP Calibration: For 3.5M KCL Zobell ORP solutions, use $STD_T = STD_{T_{25}} + 1.47 \cdot (25 - T)$ Millivolts -OR- For 4M KCL Zobell ORP solutions, use $STD_T = STD_{T_{25}} + 1.3 \cdot (25 - T)$ Millivolts

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 0496/0497/0495

Date of Last Calibration: 4/4/23

Project Name: Annisston April Event 4 EP

Date Instrument Calibrated and Used: 4/11/23

Name of Person Performing Calibration: EGK

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Aqua troll	I-Situ	AT600	C2902
2.			
3. Turbidity Meter	Hanna	HI 98103	C3107, C3112, C3115

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	mg/L ↔ 9.77	NA	NA	647	9.76	16.65	0.01	Pass
1	ORP	240.21	mV	12/30/23	653	241.3	16.38	1.09	Pass
1	Specific Conductance	1413	uS/cm	1/30/24	701	1409.4 1515.4	16.35 15.81	6.75%	Fail Pass
1	PH	4	—	9/30/24	717	16.73 ↔ 3.98		0.02	Pass
1	PH	7	—	11/30/24	723	7.05	14.98	0.05	Pass
1	PH	10	—	12/30/24	728	10.08	14.96	0.08	Pass
3 (C3107)	Turbidity	0-1000 577	NTU	N/A	640	603	N/A	N/A	P
3 (C3112)	Temp	11 548	11	N/A	630	549	11	11	P
3 (C3115)	Temp	11 602	11	N/A	635	600	11	11	P

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

16.65°C 30.35 in Hg

229 + 1.2(25-16.38)

L → this occurred after letting the AquaTroll sit w/ the solution for a longer time

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 6495/6496/6497 Date of Last Calibration: ~~4/24/23~~ 4/4/23
 Project Name: Am'ston Solution Date Instrument Calibrated and Used: 4/11/23
 Name of Person Performing Calibration: EGK / JSC

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Turbidity Meter	Hanna	HI98307	C3107
2.			
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	turbidity	5.47	NTU	n/a	640	6.04	1/c	10%	P
1	turbidity	58.9	↓	n/a	640	60.1	n/a	12%	F
1	11	577	↓	n/a	640	603	n/a	5%	P

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 6495/6496/6497
Project Name: Ammonia Solution
Name of Person Performing Calibration: JSC

Date of Last Calibration: 4/10/23
Date Instrument Calibrated and Used: 4/11/23

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. <u>Water Quality (hydro-Troll)</u>	<u>In Situ</u>	<u>AquaTroll 600</u>	<u>C2909</u>
2. <u>Turbidity</u>	<u>Hanna</u>	<u>HI 98703</u>	<u>C3115</u>
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	pH	4.01 ± 0.01	STU	7/30/23	630	3.97	15.47	0.04	P
1	pH	7.00 ± 0.01	STU	11/30/24	632	6.99	16.35	0.01	P
1	pH	10.00 ± 0.01	STU	12/30/24	636	10.15	15.93	0.15	P
1	ORP	229 (242 ^{± 2 mg/l})	mV	12/30/23	642	240.3	15.79	1.7	P
1	Spec Conduct	1413	µmhos	1/30/24	646	1413 1413	15.78	4.6%	P
2	turb	9.32	NTU	n/a	654	8.89	n/a	4.6%	P
2	turb	65.8	NTU	n/a	656	63.6	n/a	3.3%	P
2	turb	548	NTU	N/A	657	550	N/A	0.3%	P

Note:

1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

Barometer: 748.06 mmHg (30.86 in Hg)
Local pressure: 30.2 in Hg

Barometric pressure matches local barometer readings

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 6495/6/7 Date of Last Calibration: 4/12/2023
 Project Name: Anniston Solution Date Instrument Calibrated and Used: 4/12/2023
 Name of Person Performing Calibration: JSC

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. ANA Water Quality	In Situ Aquatroll	Aquatroll 600	C2909
2. Turbidity	Hanna	98703	C3115
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	9.28	mg/L	N/A	638	9.26	18.60	0.02	P
1	pH	4.01	stu	7/30/23	642	3.95	19.27	3.00 0.06	P
1	pH	7.00	stu	11/30/24	645	7.03	18.80	0.03	P
1	pH	10.00	stu	12/30/24	647	10.09	18.98	0.09	P
1	sp cond	1413	umhos	1/30/24	651	1420	19.46	0.5%	P
1	ORP	229	mV	12/30/23	655	236.4	19.18	7.4	P
2	turb	5.57	NTU	n/a	700	5.36	N/A	3.7%	P
2	turb	58.5	NTU	n/a	701	59.0	N/A	0.9%	P
2	turb	602	NTU	n/a	702	602	N/A	0%	P

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = $\pm 10\%$; pH = ± 0.2 standard units; specific conductance = $\pm 5\%$; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following PID calibration parameters: zero check = ± 1 ppm, calibration gas check = $\pm 5\%$.

Barometric pressure: 740.96

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 6495-6497

Date of Last Calibration: 4/11/2023

Project Name: PCRA/CERCLA Sampling

Date Instrument Calibrated and Used: 4/12/2023

Name of Person Performing Calibration: JA

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Water Quality	In-situ	AT600	C2912/E1102
2. Turbidity	Hanna	HI98703	C3112
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	9.98	mg/L	N/A	630	10.06	14.67	-0.08	PASS
1	ORP	242.67	mV	12/30/23	637	241.7	15.76	-0.97	PASS
1	sp. cond.	1413	umho/cm	1/30/24	639	1410	15.82	-0.2%	PASS
1	pH	4.01	S.U.	7/30/23	658	3.90	15.24	-0.10	PASS
1	pH	7.00	S.U.	11/30/24	700	6.82	15.00	-0.18	PASS
1	pH	10.00	S.U.	12/30/24	702	9.81	15.06	-0.19	PASS
2	turb	5.57	NTU	N/A	653	5.40	N/A	-3.1%	PASS
2	turb	58.5	NTU	N/A	654	60.0	↓	+2.5%	PASS
2	turb	602	NTU	N/A	655	602	↓	0%	PASS

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = $\pm 10\%$; pH = ± 0.2 standard units; specific conductance = $\pm 5\%$; ORP = ± 10 mV; DO = ± 0.2 mg/L.

2. % or numeric deviation criteria for the following PID calibration parameters: zero check = +1 ppm, calibration gas check = $\pm 5\%$.

3. ORP Calibration: For 3.5M KCL Zobell ORP solutions, use $STD_T = STD_{T=25} + 1.47 \cdot (25-T)$ Millivolts -OR- For 4M KCL Zobell ORP solutions, use $STD_T = STD_{T=25} + 1.3 \cdot (25-T)$ Millivolts

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 6495/6/7 Date of Last Calibration: 4/9/23
 Project Name: Eastman solution analysis Date Instrument Calibrated and Used: 4/12/23
 Name of Person Performing Calibration: JSC

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. <u>water quality</u>	<u>AQUATRON In Situ</u>	<u>AquaTroll 600</u>	<u>C2912</u>
2. <u>Turbidity</u>	<u>Hanna</u>	<u>C98703</u>	<u>C3107</u>
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	pH	4.00	STU	9/30/24	635	4.17	17.63	0.17	P
1	pH	7.00	STU	11/30/24	649	7.01	18.09	0.01	P
1	pH	10.00	STU	12/30/24	651	9.93	17.85	0.07	P
1	ORP	229.2	mV	12/30/23	654	229.4	18.06	0.2	P
1	DO	9.47	mg/L	N/A	709	9.66	19.33	0.19	P
1	Sp cond	1413	umhos	1/30/24	712	1412.6	18.52	0.4	P
7	turb	9.32	NTU	N/A	735	10.2	10.1% 10.1	9.4%	P
2	↓	65.8	NTU	↓	738	69.8	↓	6%	P
2	↓	548	NTU	↓	736	574	↓	4.7%	P

Note:

1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.

2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 6495-6497

Date of Last Calibration: 4/13/23 ←

Project Name: PCPA/CERCLA Sampling

Date Instrument Calibrated and Used: 4/12/23 ←

Name of Person Performing Calibration: JA

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. <u>Water Quality</u>	<u>In-Situ</u>	<u>AT600</u>	<u>C2912/E1102</u>
2. <u>Turbidity</u>	<u>HANNA</u>	<u>H198703</u>	<u>C3112</u>
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	9.38	mg/L	N/A	646	9.45	17.36	+0.07	Pass
1	ORP	238.82	mV	12/30/23	650	238.90	18.32	+0.03	Pass
1	sp. cond.	1413	umhos	1/30/24	653	1462.0	18.32	+3.4%	Pass
1	pH	4.01	S.U.	7/30/23	712	3.95	17.87	-0.16	Pass
1	pH	7.00	S.U.	11/30/24	719	6.85	17.61	-0.15	Pass
1	pH	10.00	S.U.	12/30/24	723	10.16	17.48	+0.16	Pass
2	turbidity	5.57	NTU	N/A	615	5.32	N/A	-4.48%	Pass
2	↓	58.5	↓	↓	616	58.9	↓	+0.07%	Pass
2	↓	602	↓	↓	617	599	↓	-0.49%	Pass

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.

2. % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

ORP Standard = $229 + 1.47(25 - T)$

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 6495/6497

Date of Last Calibration: 4/13/23

Project Name: Anniston April Event

Date Instrument Calibrated and Used: 4/14/23

Name of Person Performing Calibration: EGK

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. <u>AquaTroll</u>	<u>In Situ</u>	<u>600</u>	<u>C2909</u>
2. <u>Turbidity</u>	<u>Hanna</u>	<u>98703</u>	<u>C3115</u>
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	9.67	mg/L	NA	645	9.49	17.47	0.18	pass
1	pH	4.01	NA	7/30/23	648	3.98	17.63	0.01	pass
1	pH	7.00	NA	11/30/24	651	7.04	17.74	0.04	pass
1	pH	10.00	NA	12/30/24	653	10.10	17.85	0.10	pass
1	conductivity	1413	MS/cm	1/30/24	654	1453	17.82	2.75%	pass
1	ORP	238.24	mV	12/30/23	657	237.8	17.89	0.44	pass
2	Turb	9.32	NTU	NA	641	9.27	—	0.5%	P
2	Turb	65.8	NTU	NA	642	64.0	—	0.3%	P
2	Turb	548	NTU	NA	643	554	—	1.08%	P

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = $\pm 10\%$; pH = ± 0.2 standard units; specific conductance = $\pm 5\%$; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following PID calibration parameters: zero check = ± 1 ppm, calibration gas check = $\pm 5\%$.

229* 1.3(25-17.89)

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.:

6495-6497

Date of Last Calibration:

4/14/2023

Project Name:

RCPA/CERCLA

Date Instrument Calibrated and Used:

4/15/2023

Name of Person

JA

Performing Calibration:

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Water Quality	In-Situ	AT600	C2912
2. Turbidity	HANNA	H198703	C3112
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	9.19	mg/L	N/A	907	9.30	18.95	+0.11	PASS
1	ORP	239.29	mV	12/30/23	910	242.8	18.01	+3.51	PASS
1	sp. cond	1413	umhos	1/30/24	912	1427.4	17.79	+1.01%	PASS
1	pH	4.01	S.V.	9/30/24	925	4.05	18.31	+0.05	PASS
1	pH	7.00	S.V.	11/30/24	930	7.09	18.22	+0.09	PASS
1	pH	10.00	S.V.	12/30/24	933	18.12 ← 10.18	18.12	+0.18	PASS
2	turb	5.57	NTU	N/A	935	6.00	N/A	+7%	PASS
2	↓	58.5	↓	↓	936	60.7	↓	+3.6%	PASS
2	↓	602	↓	↓	941	601	↓	-0.2%	PASS

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.

2. % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

$$\text{ORP std} = 229 + 1.47 (25 - T)$$

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 649516497
 Project Name: Anniston April Event
 Name of Person Performing Calibration: EGK

Date of Last Calibration: 4/14/23
 Date Instrument Calibrated and Used: 4/15/23

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. <u>Aqua Troll</u>	<u>In Situ</u>	<u>600</u>	<u>C2909</u>
2. <u>Turbidity</u>	<u>Hanna</u>	<u>98703</u>	<u>1532</u>
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	PH	4.01	—	7/30/23	903	4.00	17.66	0.01	P
1	PH	7.00	—	11/30/24	905	7.04	17.75	0.04	P
1	PH	10.00	—	12/30/24	906	10.06	17.87	0.06	P
1	DO	9.28	mg/L	NA	909	8.87	18.48	0.41	F
1	DO	9.28	mg/L	NA	920	9.13	18.50	0.15	P
1	ORP	238.23	mV	12/30/24	927	246.1	18.54	27.9	F
1	conductivity	1413	uS/cm	1/30/24	925	1428	18.25	1.05%	P
1	ORP	234.55	mV	12/30/24	941	236.4	19.19	0.153	P
2	TURB	9.32	9.67 NTU	NA	942	9.67	NA	3.71	P
2	TURB	65.8	67.9	NA	943	67.9	NA	3.17	P

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = $\pm 10\%$; pH = ± 0.2 standard units; specific conductance = $\pm 5\%$; ORP = ± 10 mV; DO = ± 0.2 mg/L.
 2. % or numeric deviation criteria for the following PID calibration parameters: zero check = +1 ppm, calibration gas check = $\pm 5\%$.

19.19

229

30.03 inHg

~~746.52~~

746.52

~~9.47~~

$$9.47 \times .98 = 9.28$$

$$229 + 1.3(25 - 18.54)$$

3.851

P

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.:

6495/6/7

Date of Last Calibration:

4/15/2023

Project Name:

Eastman solution

Date Instrument Calibrated and Used:

4/9/2023

Name of Person

Performing Calibration:

John Cook

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Water Quality	In Situ	AquaTroll 600	C2921
2. Turbidity	Hanna	C98703	H1 98703
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	8.83	mg/L	n/a	900	8.84	21.60	0.01	P
1	ORP	237.8	mV	12/30/23	910	238.8	19.24	1.0	P
1	spec cond	1413	umhos	1/30/24	912	1409.5	18.88	3.5(0.2%)	P
1	pH	4.01	pH (SW)	7/30/23	914	3.82	18.80	0.19	P
1	pH	7.00	↓	11/30/24	919	6.88	18.84	0.12	P
1	pH	10.00	↓	12/30/24	928	10.07	18.74	0.07	P
2	turbidity	9.32	NTU	n/a	929	9.16	n/a	1.7%	P
2	↓	65.8	↓	↓	↓	63.8	↓	3.0%	P
2	↓	548	↓	↓	↓	554	↓	1.0%	P

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.

2. % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

barometric pressure Aniston: 29.91 in Hg (759.7 mmHg) → 100% saturation

21.45°C → 8.83 mg/L → 8.83 mg/L

229 + 1.47(25 - 19°C) = 237.8

FIELD INSTRUMENT CALIBRATION LOG



GSI Job No.: 6495, 6497

Date of Last Calibration: 4/15/2023

Project Name: RCRA/CERCLA GW sampling

Date Instrument Calibrated and Used: 4/16/2023

Name of Person: Anniston, AL

Performing Calibration: JA

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. <u>water quality</u>	<u>In Situ</u>	<u>AT600</u>	<u>C2912</u>
2. <u>Turbidity</u>	<u>HANNA</u>	<u>HI 98703</u>	<u>C3112</u>
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	8.91	mg/L	N/A	857	8.97	19.57	+0.06	PASS
1	sp. cond	1413	umhos	1/30/24	900	1423.4	19.94	+0.73%	PASS
1	pH	4.01	S.U.	7/30/23	927	4.01	20.09	+0.00	PASS
1	pH	7.00	S.U.	11/30/24	912	7.06	20.11	+0.06	PASS
1	pH	10.00	S.U.	12/30/24	909	10.17	20.07	+0.17	PASS
1	ORP	235.5	mV	12/30/23	930	232.9	20.21	-2.6	PASS
2	turbidity	602	NTU	N/A	941	600	N/A	-0.33%	PASS
2	↓	50.5	↓	↓	942	60.2	↓	+2.82%	PASS
2	↓	5.57	↓	↓	943	5.62	5.62	+0.89	PASS

Note:

1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.

2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 04915 17
 Project Name: Anniston April Event
 Name of Person Performing Calibration: EGK

Date of Last Calibration: 4/15/23
 Date Instrument Calibrated and Used: 4/16/23

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. AquaTroll	Insitu	600	C2909
2. Turbidity Meter	Hanna	H192703	C3107
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	8.91	mg/L	NA	858	9.14	20.46	0.23	F
1	DO	8.74	mg/L	NA	902	8.59	21.22	0.15	P
1	pH	4.01	—	7/30/23	904	4.01	20.54	0.00	P
1	pH	7.00	—	11/30/24	905	7.00	20.40	0.00	P
1	pH	10.00	—	12/30/24	908	9.99	20.33	0.01	P
1	conductivity	1413	µS/cm	1/30/24	911	1395	20.94	1.27%	P
1	ORP	234.5	mV	4/30/23	914	233.5	20.73	0.43% 1.05	P
2	TURB	9.32	NTU	NA	917	9.94	NA	6.24%	P
2	↓	65.8	↓	↓	918	70.0	↓	6.2%	P
2	↓	548	↓	↓	918	575	↓	4.70	P

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

98 909 8.91 8.92

229 + 1.3 (25 - 20.73)

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 6495/6/7 Date of Last Calibration: 4/16/2023
 Project Name: Eastman Solution Anniston Date Instrument Calibrated and Used: 4/19/2023
 Name of Person Performing Calibration: JSC

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. <u>AA Water Quality</u>	<u>M Insitu</u>	<u>Aquatrol 600</u>	<u>C2921</u>
2. <u>Turbidity</u>	<u>Hanna</u>	<u>C98703</u>	<u>C3115</u>
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	8.74	mg/L	n/a	901	8.61	21.19	0.13	P
1	ORP	235.3	mV	12/30/23	905	231.8	20.74	3.5 (1.4%)	P
1	spec cond	1413	umhos	1/30/24	907	1411.9	20.80	1.1 (0.1%)	P
1	pH	4.01	stu	9/30/24	913	4.15	20.94	0.14	P
1	↓	7.00	↓	11/30/24	916	7.16	20.64	0.16	P
1	↓	10.00	↓	12/30/24	917	10.09	20.62	0.09	P
2	turb	5.57	NTU	n/a	920	5.69	n/a	0.12	P
2	↓	58.5	↓	↓	923	59.9	↓	1.4	P
2	↓	602	↓	↓	924	606	↓	4	P

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

~~8.92 - 0.98 = 8.94~~
 8.92 - 0.98 = 8.74

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 6495 6497

Date of Last Calibration: 4/16/2023

Project Name: RCPA / CERCLA GW

Date Instrument Calibrated and Used: 4/17/2023

Name of Person: Sampling

Performing Calibration: JA

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Water Quality	INSTR	AT600	C2912
2. Turbidity	HANNA	H19B703	C3115
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	9.28	mg/L	N/A	903	9.26	18.03	-0.02	PASS
1	ORP	240.6	mV	12/30/23	905	242.5	17.21	+1.90	PASS
1	sp. cond	1413	umhos	1/30/24	910	1443.4	16.81	+2.12%	PASS
1	pH	4.01	SV	7/30/23	920	4.13	16.46	+0.12	PASS
1	pH	7.00	SV	11/30/24	925	7.18	16.43	+0.18	PASS
1	pH	10.00	SV	12/30/24	930	10.09	16.34	+0.09	PASS
2	turb	548	NTU	N/A	935	555	N/A	+1.26%	PASS
2	↓	65.8	↓	↓	936	64.6	↓	-1.82%	PASS
2	↓	9.32	↓	↓	937	9.18	↓	-1.50%	PASS

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.

2. % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 6495/6497

Date of Last Calibration: 4/16/23

Project Name: Anniston April Event

Date Instrument Calibrated and Used: 4/17/23

Name of Person
Performing Calibration: EGK

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Aquatroll	In situ	600	C2909
2. Turbidity Meter	Hanna	H198703	C3107
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	9.67	mg/L	NA	845	9.65	16.11	0.02	P
1	DO	9.67	mg/L	NA	852		16.		
1	PH	4.01	—	9/30/24	856	4.01	16.37	0.00	P
1	PH	7.0	—	11/30/24	857	7.02	16.46	0.01	P
1	PH	10.0	—	12/30/24	859	10.07	16.65	0.07	P
1	Conductivity	1413	µs/cm	1/30/24	904	17.01	17.01	0.47%	P
1	ORP	238.9	mV	12/30/23	909	1422.6 241.1	17.35	0.9%	P
2	TURB	9.32	NTU	NA	919	10.0	NA	6.8%	P
2	↓	65.8	↓	↓	919	70.3	↓	6.4%	P
2	↓	548	↓	↓	919	573	↓	4.4%	P

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

30.05 in Hg

9.87 9.67

25 - 17.35
229 + 1.3 (17.35 -

FIELD INSTRUMENT CALIBRATION LOG



GSI Job No.: 649517
 Project Name: Eastman Solution
 Name of Person Performing Calibration: JSC

Date of Last Calibration: 6/12/23
 Date Instrument Calibrated and Used: 6/13/23

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Aqua Troll AT600	IN-SITU	AT600	C2905/E1117
2. Turbidity Meter	Hach	21009	C3203
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	8.65	mg/L	—	1025	8.67	22.26°C	0.02	P
1	ORP	229	mV	12/30/23	1025	229.3	23.03	0.2	P
1	conductivity	1413	µS/cm	6/30/23	1030	1455.0	22.93	42	P
1	pH	7.00	STU	11/30/24	1030	6.96	23.12	0.04	P
1	pH	10.00	STU	12/30/24	1030	9.99	23.32	0.01	P
1	pH	4.01	STU	7/30/24	1035	3.97	23.24	0.04	P
2	turbidity	10	NTU	1/24	1035	9.62	n/a	0.38	P

Note:
 1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
 2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.:

6497

Date of Last Calibration:

~~6/12/23~~ 6/13/23

Project Name:

Eastman Solving Airision

Date Instrument Calibrated and Used:

~~6/13/23~~ 6/14/23

Name of Person

Performing Calibration:

JSC/JA

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Aqua Troll	In Situ	AT600	C2905/E1117
2. Turbidity Meter	Hach	21009	C3203
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	8.58	mg/L	—	650	8.60 8.60	22.65°C	0.02	P
1	ORP	229	mV	12/30/23	658	234.4	23.33	5.4	P
1	Cond	1413	us/cm	1/30/24	700	1447.5	22.89	2.5%	P
1	pH	7.06	STU	11/30/24	703	6.95	22.72	0.05	P
1	pH	4.01	STU	7/30/23	704	3.98	22.64	0.03	P
1	pH	10.00	STU	5/30/24	705	10.00	22.57	0	P
2	turbidity	10	NTU	Jan 2024	654	11	NA	+10%	Pass

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.

2. % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 6497 Date of Last Calibration: 8/3/23
 Project Name: Anniston Date Instrument Calibrated and Used: 8/19/23
 Name of Person Performing Calibration: MW, JSC, CCM

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. aquatroll	In-situ	aquatroll 600	C2923
2. Turbidity meter	Hanna	H198703	1532 C3113
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	222 19.09	mg/L	—	717	7.62	26.16		F
2	Turb	5.94	NTU	—	653	5.82	—	2.02%	P
2	Turb	5.10 6.17	NTU	—	655	6.14	—	0.490%	P
2	Turb	588	NTU	—	656	588	—	0%	P
1	ORP conductivity	229	mV	02/28/24	731	233.0	23.99	4	P
1	pH	4	—	7/30/24	725	3.93	24.28	0.07	P
1	pH	7	—	10/30/24	726	6.86	24.04	0.14	P
1	pH	10	—	10/30/24	727	9.95	24.07	0.05	P
1	ORP conductivity	1413	µS/cm		729	1408	24.09	0.3%	P
1	DO	19.09 8.11	mg/L	—	7.23	8.03	24.03 25.8	0.208	P

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
 2. % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

9.09 mg/L

30.05, n

1016.9 mb
746.5 mmHg

22

FALL 2023 CALIBRATION LOGS

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FIELD INSTRUMENT CALIBRATION LOG



GSI Job No.: 6495

Date of Last Calibration: 10/11/2023

Project Name: Anniston October Event

Date Instrument Calibrated and Used: 10/17/2023

Name of Person Performing Calibration: EGK / LCM

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Aqua Troll 600	In-Situ	AT600	C2923 / E1115
2. Turbidity meter	HACH	2100Q	C3208
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	9.57	mg/L	NA	626	10.04	17.19	4.68%	Pass
1	PH	3 4.01	—	6/30/25	637	3.95	17.65	0.06	Pass
1	PH	7.00	—	4/30/25	639	7.01	17.19	0.01	Pass
1	PH	10.00	—	10/30/24	641	10.07	17.32	0.07	Pass
1	Specific Conductivity	1413	uS/cm	7/30/24	644	1396.1	17.75	1.19%	Pass
1	ORP	239.3	mV	4/30/24	649	232.6	17.95	2.80% 6.7	Pass
2	Turbidity	10	NTU	Jan-2024	646	9.55	N/A	4.5%	Pass

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.

2. % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

$$229 + 1.47(25 - 17.95) = 239.36$$

$$9.67 \times .99 = 9.57$$

99%

calc: 748.01 mmHg

30.09 inHg

AquaTroll Barometer: 746.56 mmHg

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 6495

Date of Last Calibration: 10/17/23

Project Name: Amniston October Event

Date Instrument Calibrated and Used: 10/18/23

Name of Person
Performing Calibration: EGK

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. <u>Aqua toll water quality</u>	<u>In-situ</u>	<u>ATL600</u>	<u>C2923</u>
2. <u>Turbidity meter</u>	<u>HACH</u>	<u>2100Q</u>	<u>C3208</u>
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	9.57	mg/L	NA	640	10.26	17.21	0.69	Fail
1	DO	9.57	mg/L	NA	646	9.45	17.75	0.12	Pass
1	pH	4.01	—	6/30/25	649	4.05	17.13	0.03	Pass
1	pH	7.00	—	4/30/25	651	7.03	16.97	0.03	Pass
1	pH	10.00	—	10/30/24	652	10.10	17.05	0.10	Pass
1	<u>Specific Conductance</u>	1413	µS/cm	7/30/24	656	1286.2	17.20	8.7%	Fail
1	<u>ORP</u>	1413	µS/cm	7/30/24	659	1412.2	17.79	0.06%	Pass
1	ORP	237.87	mV	4/30/24	6701	237.6	17.60	0.11%	Pass
1	Turb	10	NTU	Jan 2024	708	9.59	NA	4.1%	Pass

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.

2. % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

75049

9.47x.99

30.16 mHg

749.75 mmHg

229 + 1.47 (25 - 17.60)

74688
749.75
30.16m



FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 6495 Date of Last Calibration: 10/11/2023
 Project Name: Anniston RCRA october sampling Date Instrument Calibrated and Used: 10/18/2023
 Name of Person Performing Calibration: LCM

EQUIPMENT

Equipment Type(s):	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. water quality meter	In-situ	aquatroll-600	C2905
2. Turbidity	HACH	2100Q	C3204
3.			

CALIBRATION STANDARDS

CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail
1	DO	9.57	mg/L	—	6:45	9.53	17°C	0.04	P
1	pH	4.01 ± 0.01	—	6/30/25	648	3.87	17.98	0.13	P
1	pH	7.00	—	4/30/25	649	6.90	18.17	0.10	P
1	pH	10.00	—	10/30/24	653	9.90	20.17	0.10	P
1	Sp. cond.	1413	µS/cm	7/30/24	657	1389.4	18.87	1.67%	P
1	ORP	237.39	mV	4/30/24	6700	242.5	18.54	4.52	P
1	turb	10	NTU	Jan-24	706	9.77	4.77	2.30%	P

Note:

1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

**2023 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

Appendix E. Historical Data Tabulation

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

Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.

2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

J = Estimated concentration:

R = Rejected:

– = not applicable:

- = not analyzed.

4. Abbreviations:

Dup = Duplicate sample

N = Original sample

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compound

VOCs = Volatile organic compound

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

RCRA = Resource Conservation and Recovery Act

SIM = Selected ion monitoring

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2019-2023

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

Matrix: Location ID: Sample Date: Filtered: Sample Type: Sample ID:		RCRA Background Well			RCRA Groundwater Detection Monitoring											
		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
				MW-01B	MW-01B	MW-01B	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-12A
				10/25/2022	4/11/2023	10/17/2023	4/11/2019	10/9/2019	5/16/2020	10/22/2020	4/14/2021	10/13/2021	4/5/2022	10/26/2022	4/11/2023	10/17/2023
				No	No	No	No	No	No	No	No	No	No	No	No	No
				N	N	N	N	N	N	N	N	N	N	N	N	N
				MW-01B	MW-01B	MW-01B	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-12A
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	µg/L
VOCs by Methods 8260B and 8260D																
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, 8270D LL, and 8270D SIM																
1,2-Dichlorobenzene	95-50-1	612	--	-	<10	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	77	--	-	<10	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	47	13	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	128	125	<25 J	<25	<25	<25	<25	<25	<25 J	<25	<25	<25 J	<25	<25	<25
Indeno(1,2,3-cd)pyrene, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	<10 J	<10	<10	11	<10	<10	<10 J	<10	<10	<10 J	<10	<10	11
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 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	<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	<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	<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	<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	<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	<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	<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	<0.5
Total PCBs, Aroclor Specific	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	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																
Parathion	56-38-2	75	85	<1 J	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1 J	<1 J	<1
Sulfotep	3689-24-5	6	7	<1.5 J	<1.5 J	<1.5	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, and 7470A																
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	694	73	<10	<10	<10 J	-	-	-	-	-	-	-	-	-	-
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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

J = Estimated concentration;
R = Rejected;

-- = not applicable;
- = not analyzed.

4. Abbreviations:

Dup = Duplicate sample
N = Original sample

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compound
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CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

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Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2019-2023

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

RCRA Groundwater Detection Monitoring																
Matrix: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
			MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-13A	MW-13A	MW-13A	MW-13A
			10/10/2019	5/16/2020	10/22/2020	4/13/2021	10/13/2021	4/10/2022	10/25/2022	4/11/2023	10/17/2023	4/11/2019	10/10/2019	5/15/2020	10/22/2020	4/13/2021
			No	No	No	No	No	No	No	No	No	No	No	No	No	No
			N	N	N	N	N	N	N	N	N	N	N	N	N	N
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	µg/L
VOCs by Methods 8260B and 8260D																
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	102	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, 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 J	<25 J	<25	<25	<25	<25	<25	<25
Indeno(1,2,3-cd)pyrene, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	<10	10	<10	12 J	<10	21	<10 J	23 J	<10	<10	<10	<10	<10
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5 J	<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 J	<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 J	<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 J	<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 J	<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 J	<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 J	<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 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																
Parathion	56-38-2	75	85	<1	<1	<1	<1	<1	<1	<1 J	<1 J	<1	<1	<1	<1	<1
Sulfotep	3689-24-5	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, 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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2019-2023

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

RCRA Groundwater Detection Monitoring																	
Matrix: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
			MW-13A	MW-13A	MW-13A-R	MW-13A-R	MW-13A-R	MW-13A-R	MW-13A-R	MW-08	MW-08	MW-08	MW-08	MW-08	MW-09A	MW-09A	MW-09A
			10/12/2021	4/5/2022	10/26/2022	10/26/2022	4/12/2023	10/18/2023	4/16/2019	5/18/2020	4/14/2021	4/10/2022	4/14/2023	4/15/2019	5/18/2020	4/14/2021	4/14/2021
			No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No
			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
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	µg/L	µg/L
VOCs by Methods 8260B and 8260D																	
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	102	--	-	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																	
1,2-Dichlorobenzene	95-50-1	612	--	-	-	-	-	-	<10	<1	<1	<10	<10	<10	<10	<1 J	<1
1,4-Dichlorobenzene	106-46-7	77	--	-	-	-	-	-	<10	<1	<1	<10	<10	<10	<10	<1 J	<1
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	<25	<25 J	<25
Indeno(1,2,3-cd)pyrene, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10 J	<10
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 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	<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	<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	<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	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	0.7	0.57	<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	<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	<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	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	0.7	0.57	<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 Methods 680 and EPA 680																	
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																	
Parathion	56-38-2	75	85	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1 J	<1
Sulfotep	3689-24-5	6	7	-	-	-	-	-	-	<1.5	<0.5	<1.5	<1.5	<1.5	<1.5	<0.5 J	<1.5
Metals by Methods 6010C, 6010D, 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	2	2	-	-	-	-	-	<0.2 J	<0.2	<0.2	<0.2	<0.2	<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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

J = Estimated concentration;
R = Rejected;

-- = not applicable;
- = not analyzed.

4. Abbreviations:

Dup = Duplicate sample
N = Original sample

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compound
VOCs = Volatile organic compound

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

RCRA = Resource Conservation and Recovery Act

SIM = Selected ion monitoring

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2019-2023

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: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
			MW-09A	MW-09A	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15
			4/10/2022	4/14/2023	4/16/2019	5/18/2020	4/14/2021	4/10/2022	4/15/2023	4/10/2019	4/10/2019	10/8/2019	5/13/2020	5/13/2020	10/22/2020	4/16/2021	
			No	No	No	No	No	No	No	No	No	Yes	No	No	Yes	No	No
			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
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	µg/L	µg/L
VOCs by Methods 8260B and 8260D																	
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	102	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																	
1,2-Dichlorobenzene	95-50-1	612	--	<10	<10 J	<10	<1	<1	<10	<10	<10	-	-	<1	-	-	<1
1,4-Dichlorobenzene	106-46-7	77	--	<10	<10 J	<10	<1	<1	<10	<10	<10	-	-	<1	-	-	<1
2,4,6-Trichlorophenol	88-06-2	47	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	128	125	<25	<25 J	<25	<25	<25	<25	<25	<25	-	<25 J	<25	-	<25	<25
Indeno(1,2,3-cd)pyrene, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	<10	<10 J	<10	<10	<10	<10	<10	<10	-	<10	<10	-	<10	<10
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																	
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<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	<1	<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	<1	<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	<1	<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	<1	<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	<1	<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	<1	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																	
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																	
Parathion	56-38-2	75	85	<1	<1	<1	1.8 J	<1	<1	<1 J	<1	-	<1 J	<1	-	<1	<1
Sulfotep	3689-24-5	6	7	<1.5	<1.5	<1.5	<0.5	<1.5	<1.5	<1.5 J	<1.5	-	<1.5	<0.5	-	<1.5	<1.5
Metals by Methods 6010C, 6010D, 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	<10	<10
Manganese	7439-96-5	--	880	-	-	<10	<10	39	27	20	-	-	-	-	-	-	-
Mercury	7439-97-6	2	2	<0.2	<0.2	<0.2 J	<0.2	<0.2	<0.2	<0.2	0.88 J	<0.2 J	-	<0.2	<0.2	-	0.24

Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.

2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

J = Estimated concentration;
R = Rejected;

-- = not applicable;
- = not analyzed.

4. Abbreviations:

Dup = Duplicate sample
N = Original sample

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compound
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SIM = Selected ion monitoring

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Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:

J = Estimated concentration;	-- = not applicable;	4. Abbreviations:	PCBs = Polychlorinated biphenyls	CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
R = Rejected;	- = not analyzed.	Dup = Duplicate sample	SVOCs = Semi-volatile organic compound	RCRA = Resource Conservation and Recovery Act
		N = Original sample	VOCs = Volatile organic compound	SIM = Selected ion monitoring

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HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2019-2023

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: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
			MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A
			4/15/2021	4/15/2021	10/12/2021	4/8/2022	4/8/2022	10/25/2022	4/12/2023	4/12/2023	10/18/2023	4/10/2019	4/10/2019	4/10/2019	10/9/2019	10/9/2019	10/9/2019	10/9/2019
			No	Yes	No	No	Yes	No	No	Yes	No	No	No	No	Dup	Yes	No	No
			MW-16	MW-16F	MW-16	MW-16	MW-16F	MW-16	MW-16	MW-16F	MW-16	MW-20A	Field Duplicate 1	MW-20A F	MW-20A	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	µg/L	
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	<5	-	-	-	
Chlorobenzene	108-90-7	102	--	<1	-	<1	<1	-	<1	<1	-	<1	2.2	2.1	-	2.3	2.4	
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	612	--	<1	-	-	<10	-	-	<10	-	-	<10	<10	-	-	-	
1,4-Dichlorobenzene	106-46-7	77	--	<1	-	-	<10	-	-	<10	-	-	<10	<10	-	-	-	
2,4,6-Trichlorophenol	88-06-2	47	13	-	-	-	-	-	-	-	-	-	<10	<10	-	-	-	
4-Nitrophenol	100-02-7	128	125	120	-	35	87	-	25 J	<25	-	97	<25	<25	-	<25	<25 J	
Indeno(1,2,3-cd)pyrene, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	87	-	52	47	-	49 J	58	-	68	68	46	-	52	60 J	
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	<1 J	<1 J	-	-	-	
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	<50	<50	-	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5 J	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<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	<0.5	<0.5	<0.59	<1 R	<0.5	<0.5	
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.59	<1 R	<0.5	<0.5	
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pesticides by Method 8141B																		
Parathion	56-38-2	75	85	<1 J	-	<1	<1	-	<1 J	<1	-	<1	<1	<1	-	<1	<1	
Sulfotep	3689-24-5	6	7	<1.5 J	-	<1.5	<1.5	-	<1.5 J	<1.5	-	<1.5	<1.5	<1.5	-	<1.5	<1.5	
Metals by Methods 6010C, 6010D, 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	<10	
Manganese	7439-96-5	--	880	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury	7439-97-6	2	2	0.21	<0.2	-	1.2	<0.2	-	<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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

J = Estimated concentration;
R = Rejected;

-- = not applicable;
- = not analyzed.

4. Abbreviations:

Dup = Duplicate sample
N = Original sample

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compound
VOCs = Volatile organic compound

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

RCRA = Resource Conservation and Recovery Act
SIM = Selected ion monitoring

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2019-2023

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: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
			MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A
			5/13/2020	5/13/2020	5/13/2020	10/21/2020	10/21/2020	4/16/2021	4/16/2021	4/16/2021	10/12/2021	10/12/2021	4/5/2022	4/5/2022	4/5/2022	4/5/2022	10/26/2022	
			No	No	Yes	No	No	No	No	Yes	No	No	No	No	No	Yes	No	No
			N	Dup	N	N	Dup	N	Dup	N	Dup	N	Dup	N	Dup	N	N	
			MW-20A	FIELD DUPLICATE 1	MW-20A F	MW-20 A	Duplicate	MW-20A	Field Duplicate 1	MW-20AF	MW-20A	Duplicate	MW-20A	Field Duplicate 1	MW-20AF	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	µg/L	
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	102	--	2.3	2	-	3.9	4	2.1	2.1	-	2.1	2.1	<1	<1	-	1.4	
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	612	--	2 J	2.9 J	-	-	-	2.6 J	2.6 J	-	-	-	<10	<10	-	-	
1,4-Dichlorobenzene	106-46-7	77	--	1.2 J	1.4 J	-	-	-	1.3 J	1.2 J	-	-	-	<10	<10	-	-	
2,4,6-Trichlorophenol	88-06-2	47	13	<10	<10	-	-	-	<10	<10	-	-	-	<10	<10	-	-	
4-Nitrophenol	100-02-7	128	125	<25	<25	-	<25 J	<25 J	<25	<25	-	<25	<25	<25	<25	-	<25	
Indeno(1,2,3-cd)pyrene, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	37	52	-	34 J	33 J	66	69	-	78 J	75 J	42	34	-	39	
Pentachlorophenol, 8270 SIM	87-86-5	1	1	8.5	11	-	-	-	<1	<1	-	-	-	3.7	3.7	-	-	
Pentachlorophenol	87-86-5	1	1	<50	<50	-	-	-	<50	<50	-	-	-	<50	<50	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 R	<0.5 R	<0.5	<0.5 J	
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5 J	
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5 J	
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5 J	
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5 J	
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5 J	
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5 J	
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5 J	
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5 J	
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pesticides by Method 8141B																		
Parathion	56-38-2	75	85	<1	<1	-	<1	<1	<1	<1	-	<1	<1	<1	<1	-	<1	
Sulfotep	3689-24-5	6	7	<0.5	<0.5	-	<1.5	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5	-	<1.5	
Metals by Methods 6010C, 6010D, 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	<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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

J = Estimated concentration;
R = Rejected;

-- = not applicable;
- = not analyzed.

4. Abbreviations:

Dup = Duplicate sample
N = Original sample

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compound
VOCs = Volatile organic compound

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

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Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2019-2023

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: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
			MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	OW-06A	OW-06A	OW-06A	OW-06A	OW-06A	OW-08A	OW-08A	OW-08A
			10/26/2022	4/14/2023	4/14/2023	4/14/2023	10/18/2023	10/18/2023	4/15/2019	5/18/2020	4/14/2021	4/8/2022	4/12/2023	4/10/2019	4/10/2019	5/15/2020	5/15/2020
			No	No	No	Yes	No	No	No	No	No	No	No	No	Yes	No	No
			Dup	N	Dup	N	N	Dup	N	N	N	N	N	N	N	N	N
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	µg/L	µg/L
VOCs by Methods 8260B and 8260D																	
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	102	--	1.8	2.0	2.0	-	<1 J	1.4 J	<1	<1	<1	<1	<1	<1	-	<1
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																	
1,2-Dichlorobenzene	95-50-1	612	--	-	<10	<10	-	-	-	<10 J	<1	<1	<10	<10	<10	-	<1
1,4-Dichlorobenzene	106-46-7	77	--	-	<10	<10	-	-	-	<10 J	<1	<1	<10	<10	<10	-	<1
2,4,6-Trichlorophenol	88-06-2	47	13	-	<10	<10	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	128	125	<25	<25	<25	-	<25	<25	<25 J	<25	<25	<25	<25	<25	-	<25
Indeno(1,2,3-cd)pyrene, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	<10	-	<10
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	45	38	41	-	59	69	<10	<10	<10	<10	<10	<10	-	<10
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	5.00	5.5	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	1	1	-	<50	<50	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																	
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<1	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2	<1	5.7 J
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	<1	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.6	<1	5.7 J
PCBs, Homolog Specific by Methods 680 and EPA 680																	
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																	
Parathion	56-38-2	75	85	<1 J	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Sulfotep	3689-24-5	6	7	<1.5 J	<1.5	<1.5	-	<1.5	<1.5	<1.5	<0.5	<1.5	<1.5	<1.5	<1.5	-	<0.5
Metals by Methods 6010C, 6010D, 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	<10
Manganese	7439-96-5	--	880	-	-	-	-	-	-	-	-	-	-	-	<10	<10	<10
Mercury	7439-97-6	2	2	-	<0.2 J	<0.2 J	-	-	-	<0.2 J	<0.2	<0.2	<0.2	<0.2	<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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

J = Estimated concentration;
R = Rejected;

-- = not applicable;
- = not analyzed.

4. Abbreviations:

Dup = Duplicate sample
N = Original sample

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compound
VOCs = Volatile organic compound

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

RCRA = Resource Conservation and Recovery Act
SIM = Selected ion monitoring

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2019-2023

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: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
			OW-08A	OW-08A	OW-08A	OW-08A	OW-08A	OW-08A	OW-08A	OW-08A	OW-15	OW-15	OW-15	OW-15	OW-15	OW-15	OW-15	OW-15
			5/15/2020	4/15/2021	4/15/2021	4/5/2022	4/5/2022	4/16/2023	4/16/2023	4/10/2019	4/10/2019	5/13/2020	5/13/2020	4/16/2021	4/16/2021	4/5/2022		
			Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
			OW-08A F	OW-08A	OW-08AF	OW-08A	OW-08AF	OW-08A	OW-08AF	OW-15	OW-15 F	OW-15	OW-15 F	OW-15	OW-15F	OW-15		
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	µg/L	
VOCs by Methods 8260B and 8260D																		
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, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	612	--	-	<1	-	<1	-	<10	-	<10 J	-	<1	-	2 J	-	<10	
1,4-Dichlorobenzene	106-46-7	77	--	-	<1 J	-	<1	-	<10	-	<10 J	-	<1	-	<1	-	<10	
2,4,6-Trichlorophenol	88-06-2	47	13	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	
4-Nitrophenol	100-02-7	128	125	-	<8 J	-	<25	-	<25	-	<25 J	-	<25	-	<25	-	<25	
Indeno(1,2,3-cd)pyrene, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	<0.2	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	<0.2	-	<0.2	-	<10	-	-	-	-	-	-	-	-	
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	<1	-	<1	-	<10	-	<10 J	-	<10	-	<10	-	<10	
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	1.5	<1	2.3	<0.5	<0.5	<0.5	<0.5	
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	
Aroclor 1248	12672-29-6	--	--	<0.5	4.2	<0.5 J	3.2	<0.5	2.0	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	
Aroclor 1254	11097-69-1	--	--	<0.5	2.1	<0.5 J	1.9	<0.5	2.1	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	
Aroclor 1260	11096-82-5	--	--	<0.5	1.2	<0.5 J	0.58	<0.5	1.1	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	7.5	<0.5 J	5.68	<0.5	5.2	<0.5	1.5	<1	2.3	<0.5	<0.5	<0.5	<0.5	
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pesticides by Method 8141B																		
Parathion	56-38-2	75	85	-	<1	-	<1	-	<1 J	-	<1	-	<1	-	<1	-	<1	
Sulfotep	3689-24-5	6	7	-	<1.5	-	<1.5	-	<1.5 J	-	<1.5	-	<0.5	-	<1.5	-	<1.5	
Metals by Methods 6010C, 6010D, 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	<10	<10	
Manganese	7439-96-5	--	880	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	-	
Mercury	7439-97-6	2	2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 J	<0.2 J	<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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

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-- = not applicable;
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PCBs = Polychlorinated biphenyls

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Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2019-2023

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: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
			OW-15	OW-15	OW-15	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-21A
			4/5/2022	4/17/2023	4/17/2023	4/10/2019	4/10/2019	5/13/2020	5/13/2020	4/15/2021	4/15/2021	4/5/2022	4/5/2022	4/17/2023	4/17/2023	4/11/2019	
			Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
			N	N	N	N	N	N	N	N	N	N	N	N	N	N	
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	µg/L	µg/L
VOCs by Methods 8260B and 8260D																	
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	490 J	-	350	-	350	-	550	-	410	-	-
Chlorobenzene	108-90-7	102	--	-	-	<1	<1	-	<1.3	-	<1.3	-	<1	-	<1	-	<13
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																	
1,2-Dichlorobenzene	95-50-1	612	--	-	<10	-	<10	-	1.7 J	-	2.4 J	-	<10	-	<10	-	<10
1,4-Dichlorobenzene	106-46-7	77	--	-	<10	-	<10	-	1.1 J	-	1.9 J	-	<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	-	11000
Indeno(1,2,3-cd)pyrene, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	200
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																	
Aroclor 1016	12674-11-2	--	--	<0.5 J	<0.5	<0.5 J	<0.5	<1 J	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5 J	<2.4 R
Aroclor 1221	11104-28-2	--	--	<0.5 J	<0.5	<0.5 J	<0.5	<1 J	3.7	<0.5 J	83	1.8 J	<0.5	<0.5	<0.5	<0.5 J	<2.4 J
Aroclor 1232	11141-16-5	--	--	<0.5 J	<0.5	<0.5 J	12	<1 J	<0.5	<0.5 J	<0.5	<0.5 J	<1.8 J	<0.5	<0.5	<0.5 J	<2.4 J
Aroclor 1242	53469-21-9	--	--	<0.5 J	<0.5	<0.5 J	<0.5	<1 J	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5 J	<2.4 J
Aroclor 1248	12672-29-6	--	--	<0.5 J	<0.5	<0.5 J	<0.5	<1 J	13	<0.5 J	29	<0.5 J	<0.5	<0.5	13	<0.5 J	<2.4 J
Aroclor 1254	11097-69-1	--	--	<0.5 J	<0.5	<0.5 J	13	<1 J	8.3	<0.5 J	15	<0.5 J	13 J	<0.5	14	<0.5 J	<2.4 J
Aroclor 1260	11096-82-5	--	--	<0.5 J	<0.5	<0.5 J	<0.5	<1 J	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5 J	<2.4 J
Aroclor 1268	11100-14-4	--	--	<0.5 J	<0.5	<0.5 J	<0.5	<1 J	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5 J	<2.4 J
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5 J	<0.5	<0.5 J	25	<1 J	25	<0.5 J	127	1.8 J	69 J	<0.5	27	<0.5 J	<2.4 J
PCBs, Homolog Specific by Methods 680 and EPA 680																	
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																	
Parathion	56-38-2	75	85	-	<1	-	15	-	23	-	9.3	-	14	-	12	-	2900
Sulfotep	3689-24-5	6	7	-	<1.5	-	<1.5	-	<1.6	-	<1.5	-	<1.5	-	<1.5	-	<16
Metals by Methods 6010C, 6010D, and 7470A																	
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	694	73	<10	<10	18	37	40	41	41	40	40	42	42	39	40	32
Manganese	7439-96-5	--	880	-	-	-	760	820	850	850	840	860	870	860	800	830	740
Mercury	7439-97-6	2	2	<0.2	<0.2	<0.2	<0.2 J	<0.2 J	<0.2	<0.2	<0.2	<0.2	<0.8	<0.2	<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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

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

				RCRA Corrective Action Monitoring														
Matrix: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
			OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-22	OW-22	OW-22	OW-22	OW-22
			4/11/2019	5/16/2020	5/16/2020	4/15/2021	4/15/2021	4/10/2022	4/10/2022	4/16/2023	4/16/2023	4/11/2019	4/11/2019	5/16/2020	5/16/2020	5/16/2020	4/17/2021	
			Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
			OW-21A F	OW-21A	OW-21A F	OW-21A	OW-21AF	OW-21A	OW-21AF	OW-21A	OW-21AF	OW-21A	OW-21AF	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	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	102	--	-	14	-	<13	-	8.8 J	-	8.5	-	<1 R	-	<1	-	<1	
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	612	--	-	13	-	17 J	-	15	-	21	-	<10	-	<1	-	<1	
1,4-Dichlorobenzene	106-46-7	77	--	-	4 J	-	<5.3	-	<10	-	<10	-	<10	-	<1	-	<10	
2,4,6-Trichlorophenol	88-06-2	47	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Nitrophenol	100-02-7	128	125	-	35000	-	18000	-	9800	-	7900	-	<25	-	<25	-	<25	
Indeno(1,2,3-cd)pyrene, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	310	-	270	-	150	-	180	-	<10	-	<10	-	<10	
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5 R	<0.87	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<1	<0.5	<0.5	<0.5	
Aroclor 1221	11104-28-2	--	--	<0.5	<0.92	<0.5	15	<0.5	12	<0.5	16	<0.5 J	<0.5	<1	<0.5	<0.5	<0.5	
Aroclor 1232	11141-16-5	--	--	<0.5	<1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<1	<0.5	<0.5	<0.5	<0.5	
Aroclor 1242	53469-21-9	--	--	<0.5	<0.92	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<1	<0.5	<0.5	<0.5	<0.5	
Aroclor 1248	12672-29-6	--	--	<0.5	35	<0.5	40	<0.5	19	<0.5	40	<0.5 J	0.89	<1	1.1 J	<0.5	1.6	
Aroclor 1254	11097-69-1	--	--	<0.5	<0.53	<0.5	17	<0.5	<0.5	<0.5	<0.5 J	<0.5	<1	<0.5	<0.5	<0.5	<0.5	
Aroclor 1260	11096-82-5	--	--	<0.5	<0.58	<0.5	1.8	<0.5	0.88	<0.5	2.7	<0.5 J	<0.5	<1	<0.5	<0.5	<0.5	
Aroclor 1268	11100-14-4	--	--	<0.5	<1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<1	<0.5	<0.5	<0.5	<0.5	
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	35	<0.5	73.8	<0.5	31.88	<0.5	59	<0.5 J	0.89	<1	1.1 J	<0.5	1.6	
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pesticides by Method 8141B																		
Parathion	56-38-2	75	85	-	4900 J	-	3300 J	-	280	-	1900 J	-	<1	-	<1	-	<1 J	
Sulfotep	3689-24-5	6	7	-	<160 J	-	<81 J	-	<1.6	-	<1.5 J	-	<1.5	-	<0.5	-	<1.5 J	
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	7440-48-4	694	73	31	28	30	35	34	37	32	36	35	<10	<10	<10	<10	<10	
Manganese	7439-96-5	--	880	800	700	760	880	820	900	800	900	890	-	-	-	-	-	
Mercury	7439-97-6	2	2	<0.2 J	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

J = Estimated concentration;
R = Rejected;

-- = not applicable;
- = not analyzed.

4. Abbreviations:

Dup = Duplicate sample
N = Original sample

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compound
VOCs = Volatile organic compound

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

RCRA = Resource Conservation and Recovery Act

SIM = Selected ion monitoring

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2019-2023

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

Matrix: Location ID: Sample Date: Filtered: Sample Type: Sample ID:		RCRA Corrective Action Monitoring					CERCLA Remedial Action										
		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
				OW-22	OW-22	OW-22	OW-22	OW-22	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10
				4/17/2021	4/10/2022	4/10/2022	4/14/2023	4/14/2023	4/12/2019	4/12/2019	4/12/2019	4/12/2019	5/15/2020	5/15/2020	5/15/2020	5/15/2020	4/17/2021
				Yes N	No N	Yes N	No N	Yes N	No N	No Dup	Yes N	Yes Dup	No N	No Dup	Yes N	Yes Dup	No N
				OW-22 F	OW-22	OW-22F	OW-22	OW-22F	OW-10	Field Duplicate 4	OW-10F	Field Duplicate 4F	OW-10	Field Duplicate 4	OW-10 F	Field Duplicate 4 F	OW-10
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	µg/L	µg/L
VOCs by Methods 8260B and 8260D																	
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	102	--	-	<1	-	<1 J	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	3.3	3.8 J	-	-	3.5 J	4.8 J	-	-	3.9
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																	
1,2-Dichlorobenzene	95-50-1	612	--	-	<10	-	<10	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	77	--	-	<10	-	<10	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	47	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	128	125	-	<25	-	<25	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	<10	-	<10	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																	
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<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 J	<0.5	<0.5 J	<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 J	<0.5	<0.5 J	<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 J	<0.5	<0.5 J	<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	0.84	<0.5 J	<0.5	<0.5 J	0.67 J	0.73 J	<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 J	<0.5	<0.5 J	0.88 J	1.2 J	<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 J	<0.5	<0.5 J	<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 J	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	0.84	<0.5 J	<0.5	<0.5 J	1.55 J	1.93 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																	
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																	
Parathion	56-38-2	75	85	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
Sulfotep	3689-24-5	6	7	-	<1.5	-	<1.5	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, and 7470A																	
Beryllium	7440-41-7	--	4	-	-	-	-	-	<4	<4	4.8 J	4 J	<4	<4	<4	<4	<4
Cobalt	7440-48-4	694	73	<10	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	880	-	-	-	-	-	1400	1500	860	710	1300	1300	1300	1200	1200
Mercury	7439-97-6	2	2	<0.2	<0.2	<0.2	<0.2	<0.2	2.1 J	2.1 J	2.8 J	2.5 J	5.1	4.7	4.4	3.8	3.6

Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.

2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

J = Estimated concentration;
R = Rejected;

-- = not applicable;
- = not analyzed.

4. Abbreviations:

Dup = Duplicate sample
N = Original sample

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compound
VOCs = Volatile organic compound

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

RCRA = Resource Conservation and Recovery Act

SIM = Selected ion monitoring

**Appendix E
 HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
 2019-2023**

**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: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
			OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10
			4/17/2021	4/17/2021	4/17/2021	4/11/2022	4/11/2022	4/11/2022	4/11/2022	4/11/2022	4/11/2022	4/14/2023	4/14/2023	4/14/2023	4/14/2023	6/13/2023	6/13/2023	6/13/2023
			No	Yes	Yes	No	No	Yes	Yes	No	No	No	Yes	Yes	No	No	No	Yes
			Dup	N	Dup	N	Dup	N	Dup	N	Dup	N	Dup	N	Dup	N	Dup	N
Field Duplicate 4	OW-10 F	Field Duplicate 4 F	OW-10	Field Duplicate 4	OW-10F	Field Duplicate 4F	OW-10	Field Duplicate 3	OW-10F	Field Duplicate 3F	OW-10	Field Duplicate 3	OW-10F					
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	µg/L	µg/L	
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	102	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethylene	79-01-6	--	5	4	-	-	3.7	3.6	-	-	3.3	3.2	-	-	-	-	-	
SVOCs by Methods 8270D, 8270D LL, 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, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	-	-	-	-	<0.5	<0.5	<0.5	
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	-	-	-	-	<0.5	<0.5	<0.5	
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	-	-	-	-	<0.5	<0.5	<0.5	
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	-	-	-	-	<0.5	<0.5	<0.5	
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	1.7 J	1.9 J	<0.5	<0.5	-	-	-	-	<0.5	<0.5	<0.5	
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	-	-	-	-	<0.5	<0.5	<0.5	
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	-	-	-	-	<0.5	<0.5	<0.5	
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	-	-	-	-	<0.5	<0.5	<0.5	
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	<0.5	<0.5	1.7 J	1.9 J	<0.5	<0.5	-	-	-	-	<0.5	<0.5	<0.5	
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pesticides by Method 8141B																		
Parathion	56-38-2	75	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfotep	3689-24-5	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	4	<4	<4 J	4.5 J	<4	<4	<4	<4	4.1	4.1	5.2	5.4	-	-	-	
Cobalt	7440-48-4	694	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	7439-96-5	--	880	1200	1300	1300	1100	1100	1100	1000	1100	1100	580	720	-	-	-	
Mercury	7439-97-6	2	2	4.1	4.1 J	6.4 J	12 J	2.3 J	13 J	2.2 J	4.2	4.1	5.7	6.9	-	-	-	

Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.

2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

J = Estimated concentration;
 R = Rejected;

-- = not applicable;
 - = not analyzed.

4. Abbreviations:

Dup = Duplicate sample
 N = Original sample

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compound
 VOCs = Volatile organic compound

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

RCRA = Resource Conservation and Recovery Act
 SIM = Selected ion monitoring

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2019-2023

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: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
			OW-10	OWR-03S	OWR-03S	OWR-03S	OWR-03S	OWR-03S	OWR-11	OWR-11	OWR-11	OWR-11	OWR-11	OWR-11	OWR-11	OWR-11	OWR-11	OWR-11
			6/13/2023	4/15/2019	5/14/2020	4/15/2021	4/6/2022	4/12/2023	4/16/2019	4/16/2019	5/15/2020	5/15/2020	4/19/2021	4/19/2021	4/7/2022	4/7/2022	4/7/2022	4/7/2022
			Yes	No	No	No	No	No	No	Yes	No	Yes	No	Yes	No	No	Yes	Yes
			Dup	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Field Duplicate 3F			OWR-03S	OWR-03S	OWR-3S	OWR-3S	OWR-3S	OWR-3S	OWR-11	OWR-11F	OWR-11	OWR-11 F	OWR-11	OWR-11 F	OWR-11	OWR-11F		
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	µg/L	µg/L	
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	102	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOCs by Methods 8270D, 8270D LL, 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, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5 R	<0.5	<0.5 J	<0.5	<0.5	<0.5 R	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	200	<0.5 J	180	<0.5	<0.5	140	46	170	
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	150	<0.5 J	<0.5	<0.5	<0.5	140	<0.5	<0.5	
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5 J	<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 J	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	23	70	
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	16	<0.5	<0.5	
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	1.8	<0.5 J	<0.5	<0.5	<0.5	3.5	1.2	<0.5	
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	351.8	<0.5 J	180	<0.5	299.5	70.2	240	9.6	
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pesticides by Method 8141B																		
Parathion	56-38-2	75	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfotepp	3689-24-5	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	7440-48-4	694	73	-	-	-	-	-	-	170	170	160	160	150	150	140	140	
Manganese	7439-96-5	--	880	-	-	-	-	-	-	3200	3400	3200	3300	3200	3100	2600	2700	
Mercury	7439-97-6	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Notes:

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2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

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				CERCLA Remedial Action													
Matrix: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
			OWR-11 4/17/2023	OWR-11 4/17/2023	OWR-13 4/12/2019	OWR-13 4/12/2019	OWR-13 5/14/2020	OWR-13 5/14/2020	OWR-13 4/19/2021	OWR-13 4/19/2021	OWR-13 4/7/2022	OWR-13 4/7/2022	OWR-13 4/14/2023	OWR-13 4/14/2023	OWR-13 4/12/2019	OWR-14D 4/12/2019	
			No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	No	
			N	N	N	N	N	N	N	N	N	N	N	N	N	N	Dup
			OWR-11	OWR-11F	OWR-13	OWR-13 F	OWR-13	OWR-13 F	OWR-13	OWR-13 F	OWR-13	OWR-13F	OWR-13	OWR-13F	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	µg/L	
VOCs by Methods 8260B and 8260D																	
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	102	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOCs by Methods 8270D, 8270D LL, 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, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																	
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5 J	<0.5 R	<0.5 R	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5 J	<0.5	<0.5 J	<0.5 R	<0.5 R
Aroclor 1221	11104-28-2	--	--	150	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	130	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5 J	19	<0.5	<0.5	<0.5	8.5 J	<0.5	5.3	<0.5	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5 J	9.3	<0.5	43	<0.5	5.5 J	<0.5	5.9	<0.5	4.6	<0.5 J	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5 J	<0.5	<0.5	5.4	<0.5	1.7 J	<0.5	<0.5	<0.5	0.66	<0.5 J	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	280	<0.5 J	28.3	<0.5	48.4	<0.5	15.7 J	<0.5	11.2	<0.5	5.3	<0.5 J	<0.5	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																	
Monochlorobiphenyl	27323-18-8	--	--	-	-	<0.1	<0.1	<0.095	<0.095	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobiphenyl	25512-42-9	--	--	-	-	<0.1	<0.1	<0.095	<0.095	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.11
Trichlorobiphenyl	25323-68-6	--	--	-	-	0.44	<0.1	0.81	<0.095	0.3	<0.1	0.16	<0.1	<0.1	<0.1	0.3	0.28
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	11	<0.2	27	<0.19	6.3	0.59	3.1	0.24	3.7	<0.2	0.54	0.46
Pentachlorobiphenyl	25429-29-2	--	--	-	-	6.1	<0.2	21	<0.19	4.5	0.39	2.2	<0.2	1.6	<0.2	<0.2	<0.2
Hexachlorobiphenyl	26601-64-9	--	--	-	-	0.98	<0.2	5.3	<0.19	0.7	<0.2	0.39	<0.2	0.27	<0.2	<0.2	<0.2
Heptachlorobiphenyl	28655-71-2	--	--	-	-	0.39	<0.3	2.6	<0.29	0.51	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Octachlorobiphenyl	55722-26-4	--	--	-	-	<0.3	<0.3	1.3	<0.29	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Nonachlorobiphenyl	53742-07-7	--	--	-	-	<0.5	<0.5	0.51	<0.48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Decachlorobiphenyl	2051-24-3	--	--	-	-	<0.5	<0.5	<0.48	<0.48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	18.91	<0.5	58.52	<0.48	12.31	0.98	5.85	0.24	5.6	<0.5	0.94	0.85
Pesticides by Method 8141B																	
Parathion	56-38-2	75	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfotep	3689-24-5	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, and 7470A																	
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	694	73	140	140	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	880	2700	2800	-	-	-	-	-	-	-	-	-	-	210	200
Mercury	7439-97-6	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.

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			OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D
			4/12/2019	4/12/2019	5/15/2020	5/15/2020	5/15/2020	5/15/2020	4/19/2021	4/19/2021	4/19/2021	4/19/2021	4/19/2021	4/6/2022	4/6/2022	4/6/2022	4/6/2022	4/6/2022
			Yes	Yes	No	No	Yes	Yes	No	No	Yes	Yes	No	No	No	No	Yes	Yes
			N	Dup	N	Dup	N	Dup	N	Dup	N	Dup	N	Dup	N	Dup	N	Dup
			OWR-14D F	Field Duplicate 2F	OWR-14D	FIELD DUPLICATE 2	OWR-14D F	Field Duplicate 2 F	OWR-14D	Field Duplicate 2	OWR-14D F	Field Duplicate 2 F	OWR-14D	Field Duplicate 2	OWR-14D	Field Duplicate 2	OWR-14D 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	µg/L	µg/L	
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	102	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOCs by Methods 8270D, 8270D LL, 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, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5 R	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<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 J	<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 J	<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 J	<0.5	<0.5	<0.5	
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5 J	4 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.1 J	3.5 J	<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 J	<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 J	<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 J	<0.5	<0.5	<0.5	
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	<0.5	<0.5	4 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.1 J	3.5 J	<0.5	<0.5	
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Monochlorobiphenyl	27323-18-8	--	--	<0.1	<0.1	<0.096	<0.097	<0.095	<0.095	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Dichlorobiphenyl	25512-42-9	--	--	<0.1	<0.1	<0.096	<0.097	<0.095	<0.095	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Trichlorobiphenyl	25323-68-6	--	--	<0.1	<0.1	0.73	0.87	<0.095	<0.095	0.19	0.15	<0.1 J	0.1 J	<0.1 J	0.15 J	<0.1	<0.1	
Tetrachlorobiphenyl	26914-33-0	--	--	<0.2	<0.2	0.68	0.81	<0.19	<0.19	0.29	0.22	<0.2	<0.2	0.23	0.31	<0.2	<0.2	
Pentachlorobiphenyl	25429-29-2	--	--	<0.2	<0.2	0.29	0.29	<0.19	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Hexachlorobiphenyl	26601-64-9	--	--	<0.2	<0.2	<0.19	<0.19	<0.19	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Heptachlorobiphenyl	28655-71-2	--	--	<0.3	<0.3	<0.29	<0.29	<0.29	<0.29	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	
Octachlorobiphenyl	55722-26-4	--	--	<0.3	<0.3	<0.29	<0.29	<0.29	<0.29	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	
Nonachlorobiphenyl	53742-07-7	--	--	<0.5	<0.5	<0.48	<0.49	<0.48	<0.48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Decachlorobiphenyl	2051-24-3	--	--	<0.5	<0.5	<0.48	<0.49	<0.48	<0.48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	<0.5	<0.5	1.7	1.97	<0.48	<0.48	0.48	0.37	<0.5	0.1 J	0.23	0.46 J	<0.5	<0.5	
Pesticides by Method 8141B																		
Parathion	56-38-2	75	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfotep	3689-24-5	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	7440-48-4	694	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	7439-96-5	--	880	<10	<10	25	28	<10	<10	16	17	<10 J	22 J	<10	<10	<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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

J = Estimated concentration;
R = Rejected;

-- = not applicable;
- = not analyzed.

4. Abbreviations:

Dup = Duplicate sample
N = Original sample

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compound
VOCs = Volatile organic compound

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

RCRA = Resource Conservation and Recovery Act

SIM = Selected ion monitoring

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2019-2023

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: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
			OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-15D	OWR-15D	OWR-15D	OWR-15D	OWR-15D	OWR-15D	OWR-15D	OWR-15D	OWR-15D	OWR-15D	OWR-15D	OWR-15D
			4/14/2023	4/14/2023	4/14/2023	4/14/2023	4/16/2019	4/16/2019	5/15/2020	5/15/2020	4/19/2021	4/19/2021	4/11/2022	4/11/2022	4/13/2023	4/13/2023	4/13/2023	4/13/2023
			No	No	Yes	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
			N	Dup	N	Dup	N	N	N	N	N	N	N	N	N	N	N	
			OWR-14D	Field Duplicate 2	OWR-14DF	Field Duplicate 2F	OWR-15D	OWR-15DF	OWR-15D	OWR-15D F	OWR-15 D	OWR-15 DF	OWR-15D	OWR-15DF	OWR-15D	OWR-15DF	OWR-15D	
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	µg/L	µg/L	
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	102	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOCs by Methods 8270D, 8270D LL, 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, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5 R	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	39	<0.5 J	38	<0.5	20	6.4	51	<0.5	43 J	<0.5 J	
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	16	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	0.84	<0.5	<0.5	<0.5 J	
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	<0.5	<0.5	<0.5	55	<0.5 J	38	<0.5	20	6.4	51.84	<0.5	43 J	<0.5 J	
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Monochlorobiphenyl	27323-18-8	--	--	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	
Dichlorobiphenyl	25512-42-9	--	--	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	
Trichlorobiphenyl	25323-68-6	--	--	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	
Tetrachlorobiphenyl	26914-33-0	--	--	0.38	0.42	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	
Pentachlorobiphenyl	25429-29-2	--	--	<0.2 J	0.20 J	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	
Hexachlorobiphenyl	26601-64-9	--	--	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	
Heptachlorobiphenyl	28655-71-2	--	--	<0.3	<0.3	<0.3	<0.3	-	-	-	-	-	-	-	-	-	-	
Octachlorobiphenyl	55722-26-4	--	--	<0.3	<0.3	<0.3	<0.3	-	-	-	-	-	-	-	-	-	-	
Nonachlorobiphenyl	53742-07-7	--	--	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	
Decachlorobiphenyl	2051-24-3	--	--	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	0.38 J	0.62 J	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	
Pesticides by Method 8141B																		
Parathion	56-38-2	75	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfotep	3689-24-5	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	7440-48-4	694	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	7439-96-5	--	880	12 J	18 J	<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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

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-- = not applicable;

R = Rejected;

- = not analyzed.

4. Abbreviations:

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N = Original sample

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compound

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CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

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Appendix E
 HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
 2019-2023

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: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
			T-04	T-04	T-04	T-04	T-04	T-04	T-04	T-04	T-04	T-04	T-04	T-04	T-04	T-06	T-06
			4/13/2019	4/13/2019	5/16/2020	5/16/2020	4/17/2021	4/17/2021	4/10/2022	4/10/2022	4/15/2023	4/15/2023	6/14/2023	6/14/2023	4/15/2019	4/15/2019	
			No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	
			N	N	N	N	N	N	N	N	N	N	N	N	N	N	
			T-04	T-04F	T-04	T-04F	T-04	T-04 F	T-04	T-04F	T-04	T-04F	T-04	T-04F	T-06	T-06F	
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	µg/L	
VOCs by Methods 8260B and 8260D																	
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	102	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOCs by Methods 8270D, 8270D LL, 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, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																	
Aroclor 1016	12674-11-2	--	--	<0.5 J	<0.5 J	<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 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	-	-	11	<0.5	<0.5	
Aroclor 1232	11141-16-5	--	--	<0.5 J	<0.5 J	<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 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	
Aroclor 1248	12672-29-6	--	--	39 J	<0.5 J	<0.5	<0.5	46	17	59	<0.5	-	-	<0.5	<0.5	1.9	
Aroclor 1254	11097-69-1	--	--	12 J	<0.5 J	13	<0.5	12	5.3	16	<0.5	-	-	14	<0.5	0.83	
Aroclor 1260	11096-82-5	--	--	<0.5 J	<0.5 J	<0.5	<0.5	0.75	<0.5	<0.5	<0.5	-	-	0.57	<0.5	<0.5	
Aroclor 1268	11100-14-4	--	--	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	51 J	<0.5 J	13	<0.5	58.75	22.3	76.2	<0.5	-	-	26	<0.5	2.73	
PCBs, Homolog Specific by Methods 680 and EPA 680																	
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pesticides by Method 8141B																	
Parathion	56-38-2	75	85	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfotep	3689-24-5	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals by Methods 6010C, 6010D, and 7470A																	
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	7440-48-4	694	73	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	7439-96-5	--	880	140	100	160	92	180	190	160	140	200	63	-	-	-	
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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

J = Estimated concentration;
 R = Rejected;

-- = not applicable;
 - = not analyzed.

4. Abbreviations:

Dup = Duplicate sample
 N = Original sample

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compound
 VOCs = Volatile organic compound

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

RCRA = Resource Conservation and Recovery Act
 SIM = Selected ion monitoring

**Appendix E
 HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
 2019-2023**

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: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
			T-06	T-06	T-06	T-06	T-06	T-06	T-06	T-06	T-09	T-09	T-09	T-09	T-09	T-09
			5/14/2020	5/14/2020	4/19/2021	4/19/2021	4/6/2022	4/6/2022	4/13/2023	4/13/2023	4/13/2019	4/13/2019	4/13/2019	5/16/2020	5/16/2020	5/16/2020
			No	Yes	No	Yes	No	Yes	No	Yes	No	No	Yes	No	No	Yes
			T-06	T-06 F	T-06	T-06 F	T-06	T-06F	T-06	T-06F	T-09	Field Duplicate 3	T-09F	T-09	FIELD DUPLICATE 3	T-09F
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	µg/L
VOCs by Methods 8260B and 8260D																
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	102	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, 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	-
Indeno(1,2,3-cd)pyrene, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 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	<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 J	<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 J	<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 J	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	3.1	<0.5	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	2.7	3 J	<0.5	2.7 J	<0.5 J
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.73	0.7 J	<0.5	<0.5 J	0.59 J
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	<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 J	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	3.1	<0.5	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	3.43	3.7 J	<0.5	2.7 J	0.59 J
PCBs, Homolog Specific by Methods 680 and EPA 680																
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																
Parathion	56-38-2	75	85	-	-	-	-	-	-	-	-	<1	<1	-	<1	-
Sulfotep	3689-24-5	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, 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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

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**Appendix E
 HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
 2019-2023**

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: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
			T-09	T-09	T-09	T-09	T-09	T-09	T-09-R	T-09-R	T-09-R	T-10	T-10	T-10	T-10	T-10	T-10	T-10
			4/17/2021	4/17/2021	4/17/2021	4/7/2022	4/7/2022	4/7/2022	8/9/2023	8/9/2023	8/9/2023	4/13/2019	5/16/2020	4/14/2021	4/7/2022	4/11/2023		
			No	No	Yes	No	No	Yes	No	No	Yes	No	No	No	No	No	No	No
			N	Dup	N	N	Dup	N	N	Dup	N	N	N	N	N	N	N	N
			T-09	Field Duplicate 3	T-09 F	T-09	Field Duplicate 3	T-09F	T-09-R	Field Duplicate 4	T-09-RF	T-10	T-10	T-10	T-10	T-10	T-10	
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	µg/L	µg/L	
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	102	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOCs by Methods 8270D, 8270D LL, 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 J	<25	<25	<25	<25 J	
Indeno(1,2,3-cd)pyrene, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	
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	<0.5 J	<0.5 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	<0.5	<0.5	<0.5 J	<0.5 J	
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	<0.5 J	<0.5 J	
Aroclor 1248	12672-29-6	--	--	2.9	2.3	<0.5	3.7	4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	0.89	0.98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	
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	<0.5 J	<0.5 J	
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	<0.5 J	<0.5 J	
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	2.9	2.3	<0.5	4.59	4.98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pesticides by Method 8141B																		
Parathion	56-38-2	75	85	<1 J	<1 J	-	<1	<1	-	<1	<1	-	<1	<1	<1	<1	<1 J	
Sulfotep	3689-24-5	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals by Methods 6010C, 6010D, 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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

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2019-2023

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

				CERCLA Remedial Action													
Matrix: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
			T-18	T-18	T-18	T-18	T-18	T-18	T-18	T-18	T-18	T-18	T-18	T-18	T-18	T-20	T-20
			4/15/2019	4/15/2019	5/14/2020	5/14/2020	4/19/2021	4/19/2021	4/6/2022	4/6/2022	4/14/2023	4/14/2023	6/14/2023	6/14/2023	4/13/2019	4/13/2019	
			No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	
			N	N	N	N	N	N	N	N	N	N	N	N	N	N	
			T-18	T-18F	T-18	T-18 F	T-18	T-18 F	T-18	T-18F	T-18	T-18F	T-18	T-18F	T-20	T-20F	
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	µg/L	
VOCs by Methods 8260B and 8260D																	
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	102	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOCs by Methods 8270D, 8270D LL, 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, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																	
Aroclor 1016	12674-11-2	--	--	<0.5 R	<0.5 R	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	-	-	<0.5 J	<0.5	<0.5	
Aroclor 1221	11104-28-2	--	--	23 J	<0.5 J	31	<0.5	25 J	10	30 J	<0.5	-	-	16 J	<0.5	<0.5	
Aroclor 1232	11141-16-5	--	--	<0.5 R	<0.5 J	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	-	-	<0.5 J	<0.5	<0.5	
Aroclor 1242	53469-21-9	--	--	<0.5 R	<0.5 J	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	-	-	<0.5 J	<0.5	<0.5	
Aroclor 1248	12672-29-6	--	--	<0.5 R	<0.5 J	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	-	-	<0.5 J	<0.5	<0.5	
Aroclor 1254	11097-69-1	--	--	<0.5 R	<0.5 J	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	-	-	<0.5 J	<0.5	<0.5	
Aroclor 1260	11096-82-5	--	--	<0.5 R	<0.5 J	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	-	-	<0.5 J	<0.5	<0.5	
Aroclor 1268	11100-14-4	--	--	<0.5 R	<0.5 J	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	-	-	<0.5 J	<0.5	<0.5	
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	23 J	<0.5 J	31	<0.5	25 J	10	30 J	<0.5	-	-	16 J	<0.5	<0.5	
PCBs, Homolog Specific by Methods 680 and EPA 680																	
Monochlorobiphenyl	27323-18-8	--	--	98	0.11	67	<0.097	60	25	6.4	45	36	0.50	-	-	-	
Dichlorobiphenyl	25512-42-9	--	--	26	<0.1	23	<0.097	18	1.7	2.2	3.7	12	0.11	-	-	-	
Trichlorobiphenyl	25323-68-6	--	--	1.4	<0.1	1.4	<0.097	0.73	0.42	0.16	0.82	0.29	<0.1	-	-	-	
Tetrachlorobiphenyl	26914-33-0	--	--	<0.2	<0.2	<0.19	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	
Pentachlorobiphenyl	25429-29-2	--	--	<0.2	<0.2	<0.19	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	
Hexachlorobiphenyl	26601-64-9	--	--	<0.2	<0.2	<0.19	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	
Heptachlorobiphenyl	28655-71-2	--	--	<0.3	<0.3	<0.29	<0.29	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	-	-	
Octachlorobiphenyl	55722-26-4	--	--	<0.3	<0.3	<0.29	<0.29	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	-	-	
Nonachlorobiphenyl	53742-07-7	--	--	<0.5	<0.5	<0.48	<0.49	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	
Decachlorobiphenyl	2051-24-3	--	--	<0.5	<0.5	<0.48	<0.49	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	125.4	0.11	91.4	<0.49	78.73	27.12	8.76	49.52	48	0.61	-	-	-	
Pesticides by Method 8141B																	
Parathion	56-38-2	75	85	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfotep	3689-24-5	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals by Methods 6010C, 6010D, and 7470A																	
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	7440-48-4	694	73	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	7439-96-5	--	880	-	-	-	-	-	-	-	-	-	-	-	3600	3800	
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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

J = Estimated concentration;
R = Rejected;

-- = not applicable;
- = not analyzed.

4. Abbreviations:

Dup = Duplicate sample
N = Original sample

PCBs = Polychlorinated biphenyls

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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Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2019-2023

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: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
			T-20	T-20	T-20	T-20	T-20	T-20	T-20	T-20	T-20	T-20	T-20	T-20	WEL-01	WEL-01	WEL-01	WEL-01
			5/15/2020	5/15/2020	4/17/2021	4/17/2021	4/17/2022	4/7/2022	4/16/2023	4/16/2023	6/14/2023	6/14/2023	4/13/2019	4/13/2019	5/15/2020	5/15/2020		
			No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes		
			N	N	N	N	N	N	N	N	N	N	N	N	N	N		
			T-20	T-20F	T-20	T-20 F	T-20	T-20F	T-20	T-20F	T-20	T-20F	WEL-01	WEL-01F	WEL-01	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	µg/L		
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chlorobenzene	108-90-7	102	--	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-		
SVOCs by Methods 8270D, 8270D LL, 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, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-		
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-		
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	-	-	-	-	-	-	-	-	-	-	-	-		
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-		
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-		
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	-	<0.5	<0.5	<0.5 J	<0.5 J	-	-	<0.5	<0.5	<0.5	<0.5 J	<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 J	<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 J	<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 J	<0.5		
Aroclor 1248	12672-29-6	--	--	1.1	-	<0.5	<0.5	2.1	<0.5	-	-	<0.5	<0.5	<0.5	<0.5 J	<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 J	0.62		
Aroclor 1260	11096-82-5	--	--	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5 J	<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 J	<0.5		
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	1.1	-	<0.5	<0.5	2.1	<0.5	-	-	<0.5	<0.5	<0.5	<0.5 J	0.62		
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-		
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-		
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-		
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-		
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-		
Pesticides by Method 8141B																		
Parathion	56-38-2	75	85	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sulfotep	3689-24-5	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-		
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cobalt	7440-48-4	694	73	-	-	-	-	-	-	-	-	-	-	-	-	-		
Manganese	7439-96-5	--	880	2900	2700	2600	2500	2200	2100	2100	2100	-	-	21	16	21		
Mercury	7439-97-6	2	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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

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R = Rejected;

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Dup = Duplicate sample
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Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2019-2023

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: Location ID: Sample Date: Filtered: Sample Type: Sample ID:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
			WEL-01 4/20/2021	WEL-01 4/20/2021	WEL-01 4/10/2022	WEL-01 4/10/2022	WEL-01 4/15/2023	WEL-01 4/15/2023	WEL-01 6/13/2023	WEL-01 6/13/2023	WEL-04 4/15/2019	WEL-04 4/15/2019	WEL-04 5/14/2020	WEL-04 5/14/2020	WEL-04 4/20/2021	WEL-04 4/20/2021	
			No N	Yes N	No N	Yes N	No N	Yes N	No N	Yes N	No N	Yes N	No N	Yes N	No N	Yes N	
			WEL-01	WEL-01 F	WEL-01	WEL-01F	WEL-01	WEL-01F	WEL-01	WEL-01F	WEL-04	WEL-04F	WEL-04	WEL-04 F	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	µg/L	
VOCs by Methods 8260B and 8260D																	
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	102	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethylene	79-01-6	--	5	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOCs by Methods 8270D, 8270D LL, 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, 8270 SIM	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	87-86-5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																	
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5 R	<0.5 R	<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	
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	
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	
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	
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	
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	
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, Aroclor Specific	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	
PCBs, Homolog Specific by Methods 680 and EPA 680																	
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pesticides by Method 8141B																	
Parathion	56-38-2	75	85	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfotep	3689-24-5	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals by Methods 6010C, 6010D, and 7470A																	
Beryllium	7440-41-7	--	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	7440-48-4	694	73	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	7439-96-5	--	880	12	10	32	16	15	13	-	-	86	60	88	57	60	
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, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals

3. Data Flags:

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 HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
 2019-2023**

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: Location ID: Sample Date: Filtered: Sample Type: Sample ID:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater
				WEL-04	WEL-04	WEL-04	WEL-04
				4/6/2022	4/6/2022	4/12/2023	4/12/2023
				No	Yes	No	Yes
				N	N	N	N
WEL-04	WEL-04F	WEL-04	WEL-04F				
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D							
1,2,4-Trichlorobenzene	120-82-1	--	70	-	-	-	-
Chlorobenzene	108-90-7	102	--	-	-	-	-
Trichloroethylene	79-01-6	--	5	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, 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, 8270 SIM	193-39-5	--	0.2	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.2	-	-	-	-
o, o, o-Triethyl phosphorothioate	126-68-1	102	310	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	1	1	-	-	-	-
Pentachlorophenol	87-86-5	1	1	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A							
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5 J	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	0.5	0.5	<0.5	<0.5 J	<0.5	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680							
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	0.5	0.5	-	-	-	-
Pesticides by Method 8141B							
Parathion	56-38-2	75	85	-	-	-	-
Sulfotepp	3689-24-5	6	7	-	-	-	-
Metals by Methods 6010C, 6010D, and 7470A							
Beryllium	7440-41-7	--	4	-	-	-	-
Cobalt	7440-48-4	694	73	-	-	-	-
Manganese	7439-96-5	--	880	73	52	58	40
Mercury	7439-97-6	2	2	-	-	-	-

- Notes:
- Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
 - 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
 - Data Flags:

J = Estimated concentration;
 R = Rejected;
 - Abbreviations:

Dup = Duplicate sample
 N = Original sample
 - PCBs = Polychlorinated biphenyls
 SVOCs = Semi-volatile organic compound
 VOCs = Volatile organic compound
 - CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
 RCRA = Resource Conservation and Recovery Act
 SIM = Selected ion monitoring

**2023 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

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 14 data packages issued by TestAmerica Laboratories, Inc. (TestAmerica), located in Savannah, Georgia. The data packages report the analyses of groundwater samples collected in the Spring (April, June, August) and Fall (October) 2023 groundwater monitoring events at the Solutia Inc. facility located in Anniston, Alabama. Additional sampling events were conducted in June and August to complete the Spring 2023 event due to a laboratory error which resulted in premature disposal of 12 samples and the pending replacement of monitoring well T-09, respectively.

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 groundwater conditions to evaluate whether a release from WMA I has or 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 2023 groundwater sampling program at the Solutia Anniston facility included collection and analysis of a total of 63 samples in April, 13 samples in June, 4 samples in August, and 10 samples in October, including field duplicates, equipment blanks, purge water, and trip blanks (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
- Polychlorinated Biphenyls (PCB Aroclors) 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 April, June, August, and October 2023 sampling events are summarized in Table 5 in the main

body of this Annual Groundwater Monitoring Report. Historical results for groundwater sampling for the last five years (i.e., 2019 to 2023) are provided in Appendix E. Data acquired during 2023 included in Table 5 and Appendix E have been qualified as described in this data validation report. Complete laboratory reports and their respective data validation checklists 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, 2015).

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 quality objectives (DQOs) specified in the SAP for representativeness, comparability, accuracy, precision, 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

A summary of the data evaluations and findings resulting in qualifications are presented below. Additional details regarding the data evaluation, findings, and qualifications may be found in the data validation checklists at the front of each lab report provided in Appendix H.

3.1 Representativeness

- **Evaluation:** Samples specified by the SAP were collected at designated monitoring well locations in April, June, August, and October 2023. The Expanded Extraction System Performance monitoring well T-09, located downgradient of the OW-21A Corrective Action Area, was replaced with well T-09-R in July 2023. 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:** Well T-09-R is constructed at the same location, design, and depth as the previous T-09. No sample results have been qualified on the basis of unrepresentative samples.

3.2 Comparability

3.2.1 Laboratory Data Packages

- **Evaluation:** 13 of the 14 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. Report 680-233701-1 did not provide PCB Aroclor results for 12 samples due to an error in sample placement by the laboratory resulting in disposal of the samples before extraction and analysis. These samples were collected during a subsequent resampling event in June 2023 and associated analytical results are reported in report 680-236362-1.
- **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.
 - ii. Sample Condition: Samples were received by the laboratory in good condition, having been collected in appropriate containers and preserved in the field, if applicable.
 - iii. Sample Temperatures: Sample receipt temperatures were within the acceptable criterion of 4°C +/- 2°C with the exception of the sample analytes 4-Nitrophenol, Parathion, and PCB Aroclors at T-10 collected in April 2023.
 - iv. Field Filtration: Samples were filtered in the field as specified in the SAP.
 - v. Field Performance: Appropriate field performance was met for all samples.
- **Findings:** Non-detect results for 4-Nitrophenol, Parathion, and PCB Aroclors at T-10 collected in April 2023 are qualified as estimated (UJ) in accordance with the *National Functional Guidelines for Organic Superfund Methods Data Review* (NFG; EPA, 2020b).

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 analysis of PCB-1221 in sample OWR-15D collected in April 2023, analysis of chlorobenzene in sample OW-22 collected in April 2023, sample extraction for method 8141B in samples MW-01B, MW-11A, MW-12A, T-10, MW-14, OW-08A, and OW-21A collected in April 2023, and sample extraction for 8270D in MW-12A collected in April 2023.
- **Findings:** Findings based on hold time exceedances were qualified in accordance with the NFG (USEPA, 2020b) as described below. The detected PCB-1221 result in OWR-15D collected in April 2023 was qualified as estimated (J). The non-detect chlorobenzene result in OW-22 collected in April 2023 was qualified as estimated (UJ). The non-detect results for Tetraethyldithiopyrophosphate in MW-01B, MW-14, OW-08A, and OW-21A collected in April 2023 were qualified as estimated (UJ). The detected result for Parathion in OW-21A collected in April 2023 was qualified as estimated (J). Non-detect results for Parathion in MW-01B, MW-11A, MW-12A, T-10, MW-14, and OW-08A collected in April 2023 were qualified as estimated (UJ). The non-detect result for 4-Nitrophenol in MW-12A collected in April 2023 was qualified as estimated (UJ). The detected result for o, o, o-Triethyl phosphorothioate in MW-12A collected in April 2023 was qualified as estimated (J).

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 April, June, August, and October 2023.
- **Findings:** No data have been qualified on the basis of incorrect analytical methods or reporting limits.

3.3 Accuracy

3.3.1 Blanks

- **Evaluation:** No analytes were detected in field blank samples or laboratory method blank samples.
- **Findings:** 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. Samples that had elevated reporting limits (RLs) proportional to the dilution all had detections above these limits.
- **Findings:** No data have been qualified on the basis of dilutions since all sample results with elevated RLs had detections above these RLs.

3.3.3 Surrogate Recoveries

3.3.3.1 Volatile Organic Compounds

- **Evaluation:** Surrogate recoveries for VOC analyses for all samples met project specific DQOs.
- **Findings:** No data were qualified on the basis of surrogate recoveries for VOC analyses.

3.3.3.2 Semi-Volatile Organic Compounds

- **Evaluation:** Surrogate recoveries for Nitrobenzene-d5, Phenol-d5, and 2,4,6-Tribromophenol were less than project DQOs for sample MW-09A collected in April 2023.
- **Findings:** Non-detect results for 1,2-Dichlorobenzene, 1,4-Dichlorobenzene, 4-Nitrophenol, and o, o, o-Triethyl phosphorothioate in sample MW-09A collected in April 2023 and were qualified as estimated (UJ) in accordance with the NFG (USEPA, 2020b).

3.3.3.3 PCBs

- **Evaluation:** Surrogate recoveries of decachlorobiphenyl (DCB) were less than project DQOs, but greater than or equal to the lower expanded limit of 10%, for the analysis of polychlorinated biphenyls in samples MW-15F, OWR-15DF, Field Duplicate 1, OWR-13F, OW-21AF, OW-15F, OWR-11F, and PURGEWATER collected in April 2023, and for sample T-18 collected in June 2023. DCB recovered low (below the lab standard of 14% and below the expanded lower acceptance limit of 10%) for samples MW-20AF, OW-22F, OW-16AF collected in April 2023.
- **Findings:** For PCB analytes in samples MW-15F, OWR-15DF, Field Duplicate 1, OWR-13F, OW-21AF, OW-15F, OWR-11F, and Purgewater collected in April 2023, and T-18 collected in June 2023, detected results were qualified as estimated (J) and results reported as less than the reporting limit were qualified as estimated (UJ). A strict interpretation of the NFG (USEPA, 2020b) would reject the non-detect results of PCB Aroclors in MW-20AF, OW-22F, and OW-16AF collected in April 2023; however, these results were qualified as estimated (UJ) based on professional judgement. At MW-20A and OW-22, PCB Aroclors have never been detected in the filtered samples, consistent with the results of the April 2023 sampling event. Also, the unfiltered samples at both MW-20A and OW-22 were non-detect for all PCB Aroclors. The April 2023 results for OW-16AF are also in line with expected results as PCB Aroclors have only been detected once in the last 19 years in the filtered sample collected at OW-16A, and only when the unfiltered total PCBs were approximately 5 times greater than unfiltered reported total PCBs in OW-16A from April 2023.

3.3.3.4 Organochlorine Pesticides

- **Evaluation:** Surrogate recoveries of Triphenylphosphate (TPP) were less than the project DQOs for analysis of Parathion in sample OW-21A collected in April 2023 due to a dilution factor of 500.
- **Findings:** The detected result for Parathion in sample OW-21A was already qualified as estimated (J) based on a holding time exceedance as described above in section 3.2.3.

3.3.4 Laboratory Standards

3.3.4.1 Organochlorine Pesticides

- **Evaluation:** Internal standard (ISTD) recoveries exceeded control limits in sample OW-15 collected in April 2023 for the 8141B in one column. RPD between the confirmation column exceeded control limits in a surrogate of method 8081B/802A for sample MW-16F.
- **Findings:** Control limits were met in the second column for OW-15, so no data were qualified on the basis of Organochlorine Pesticides laboratory standards.

3.3.5 Laboratory Control Samples

3.3.5.1 *Metals*

- **Evaluation:** An LCS for Cobalt in sample MW-01B collected in October 2023 was not prepared.
- **Findings:** Non-detect sample results of Cobalt in sample MW-01B collected October 2023 was qualified as estimated (UJ) in accordance with the *National Functional Guidelines for Inorganic Superfund Methods Data Review* (NFG; EPA, 2020a).

3.3.6 Matrix Spikes

3.3.6.1 *PCBs*

- **Evaluation:** Recovery of PCB-1016 and PCB-1260 in the matrix spike and matrix spike duplicate (MS/MSD) samples collected at MW-20A in April 2023 exceeded the upper laboratory control limit. Recovery of PCB-1016 in the MSD sample collected at OW-10 in June 2023 exceeded the upper laboratory control limit.
- **Findings:** All associated sample results with elevated MS/MSD recovery for PCBs are non-detect and therefore do not require qualification per the NFG (USEPA, 2020b).

3.3.6.2 *Metals*

- **Evaluation:** Recovery of Mercury in the MS/MSD samples collected at MW-20A was below project DQOs (80%).
- **Findings:** Non-detect mercury sample results in the associated MS/MSD samples (MW-20A and Field Duplicate 1 collected in April 2023) are qualified as estimated (UJ) in accordance with the NFG (USEPA, 2020a).

3.4 Precision

3.4.1 Field Duplicates

- **Evaluation:** Seven 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 three exceptions, two from the April 2023 event, one from the October 2023 event.

- i. The RPD for Manganese in OWR-14D and Field Duplicate 2 collected April 2023 was 40.0%.
- ii. The RPD for Pentachlorobiphenyl in OWR-14D and Field Duplicate 2 collected in April 2023 was not calculated since the analyte was detected only in Field Duplicate 2 and not in the original OWR-14D sample. However, the detection (0.2 µg/L) was at the reporting limit (0.2 µg/L).
- iii. The RPD for Chlorobenzene in MW-20A and Duplicate collected in October 2023 was not calculated since the analyte was detected only in the Duplicate and not in the original MW-20A sample. However, the detection (1.4 µg/L) was very close to the reporting limit (1 µg/L).

- **Findings:**

- i. For Manganese results in OWR-14D and Field Duplicate 2 collected in April 2023, detected results were qualified as estimated (J).
- ii. For Pentachlorobiphenyl results in OWR-14D and Field Duplicate 2 collected in April 2023, detected results were qualified as estimated (J) and non-detect results were qualified as estimated (UJ).
- iii. For Chlorobenzene results in MW-20A and Duplicate collected in April 2023, detected results were qualified as estimated (J) and non-detect results were qualified as estimated (UJ).

3.4.2 Matrix Spike Duplicates

- **Evaluation:** All RPDs in the MS/MSD samples collected from MW-20A and OW-10 in April 2023 are within project DQOs.
- **Findings:** No data were qualified on the basis of MS/MSD RPDs.

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 groundwater conditions to evaluate whether a release to groundwater from WMA I has or 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 100%, based on a total of 923 individual analytes of which no values were rejected. Therefore, the completeness criterion of 85% specified in the SAP was exceeded by a wide margin.

5.0 REFERENCES

Solutia, 2015. "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, 2020a. "National Functional Guidelines for Inorganic Superfund Methods Data Review," OLEM 9240.1-66, EPA-542-R-20-006, United States Environmental Protection Agency, Washington, D.C., November 2020.

USEPA, 2020b. "National Functional Guidelines for Organic Superfund Methods Data Review," OLEM 9240.0-51, EPA-540-R-20-005, United States Environmental Protection Agency, Washington, D.C., November 2020.

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

SampleDate	LabID	SampleID	LocationID	Matrix
April 2023				
4/11/2023	680-233552-1	T-10	T-10	Water
4/11/2023	680-233553-1	MW-01B	MW-01B	Water
4/11/2023	680-233553-2	MW-11A	MW-11A	Water
4/11/2023	680-233553-3	MW-12A	MW-12A	Water
4/11/2023	680-233553-4	Trip Blank 20230411	Trip Blank	Water
4/12/2023	680-233598-1	MW-13A-R	MW-13A-R	Water
4/12/2023	680-233598-3	MW-15	MW-15	Water
4/12/2023	680-233598-4	MW-15F	MW-15	Water
4/12/2023	680-233598-5	MW-16	MW-16	Water
4/12/2023	680-233598-6	MW-16F	MW-16	Water
4/12/2023	680-233598-7	OW-06A	OW-06A	Water
4/12/2023	680-233598-8	TRIP BLANK 20230412	Trip Blank	Water
4/12/2023	680-233645-1	OWR-03S	OWR-03S	Water
4/12/2023	680-233645-2	WEL-04	WEL-04	Water
4/12/2023	680-233645-3	WEL-04F	WEL-04	Water
4/13/2023	680-233638-1	T-06	T-06	Water
4/13/2023	680-233638-2	OWR-15D	OWR-15D	Water
4/13/2023	680-233638-3	OWR-15DF	OWR-15D	Water
4/13/2023	680-233638-4	T-06F	T-06	Water
4/14/2023	680-233641-1	MW-08	MW-08	Water
4/14/2023	680-233641-2	MW-09A	MW-09A	Water
4/14/2023	680-233641-3	MW-20A	MW-20A	Water
4/14/2023	680-233641-4	MW-20AF	MW-20A	Water
4/14/2023	680-233641-5	Field Duplicate 1	MW-20A	Water
4/14/2023	680-233641-6	OW-22	OW-22	Water
4/14/2023	680-233641-7	OW-22F	OW-22	Water
4/14/2023	680-233641-8	Trip Blank 20230413	Trip Blank	Water
4/14/2023	680-233701-1	OW-10	OW-10	Water
4/14/2023	680-233701-2	OW-10F	OW-10	Water
4/14/2023	680-233701-3	Field Duplicate 3	OW-10	Water
4/14/2023	680-233701-4	Field Duplicate 3F	OW-10	Water
4/14/2023	680-233701-5	OWR-13	OWR-13	Water
4/14/2023	680-233701-6	OWR-13F	OWR-13	Water
4/14/2023	680-233701-11	OWR-14D	OWR-14D	Water
4/14/2023	680-233701-12	OWR-14DF	OWR-14D	Water
4/14/2023	680-233701-13	Field Duplicate 2	OWR-14D	Water
4/14/2023	680-233701-14	Field Duplicate 2F	OWR-14D	Water
4/14/2023	680-233701-15	T-18	T-18	Water
4/14/2023	680-233701-16	T-18F	T-18	Water
4/15/2023	680-233701-7	WEL-01	WEL-01	Water
4/15/2023	680-233701-8	WEL-01F	WEL-01	Water
4/15/2023	680-233701-9	T-04	T-04	Water
4/15/2023	680-233701-10	T-04F	T-04	Water
4/15/2023	680-233705-1	MW-14	MW-14	Water
4/15/2023	680-233705-2	MW-12A	MW-12A	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

SampleDate	LabID	SampleID	LocationID	Matrix
April 2023 (Cont.)				
4/16/2023	680-233701-18	T-20	T-20	Water
4/16/2023	680-233701-19	T-20F	T-20	Water
4/16/2023	680-233705-4	OW-08A	OW-08A	Water
4/16/2023	680-233705-5	OW-08AF	OW-08A	Water
4/16/2023	680-233705-6	OW-21A	OW-21A	Water
4/16/2023	680-233705-7	OW-21AF	OW-21A	Water
4/17/2023	680-233701-17	Trip Blank 20230417	Trip Blank	Water
4/17/2023	680-233705-3	Trip Blank 20230417	Trip Blank	Water
4/17/2023	680-233802-1	OWR-11	OWR-11	Water
4/17/2023	680-233802-2	OWR-11F	OWR-11	Water
4/17/2023	680-233802-3	Purgewater	EFFLUENT	Water
4/17/2023	680-233802-4	Equipment Blank	Equipment Blank	Water
4/17/2023	680-233802-5	Trip blank20230417	Trip Blank	Water
4/17/2023	680-233804-1	OW-15	OW-15	Water
4/17/2023	680-233804-2	OW-15F	OW-15	Water
4/17/2023	680-233804-3	OW-16A	OW-16A	Water
4/17/2023	680-233804-4	OW-16AF	OW-16A	Water
4/17/2023	680-233804-5	Tripblank20230417	Trip Blank	Water
June 2023				
6/13/2023	680-236448-1	Field Duplicate 3	OW-10	Water
6/13/2023	680-236448-2	Field Duplicate 3F	OW-10	Water
6/13/2023	680-236448-3	OW-10	OW-10	Water
6/13/2023	680-236448-4	OW-10F	OW-10	Water
6/13/2023	680-236448-5	WEL-01	WEL-01	Water
6/13/2023	680-236448-6	WEL-01F	WEL-01	Water
6/14/2023	680-236362-1	T-20F	T-20	Water
6/14/2023	680-236362-2	T-04	T-04	Water
6/14/2023	680-236362-3	T-04F	T-04	Water
6/14/2023	680-236448-7	T-20	T-20	Water
6/14/2023	680-236448-12	T-18F	T-18	Water
6/14/2023	680-236448-13	Equipment Blank	Equipment Blank	Water
6/14/2023	680-236448-14	T-18	T-18	Water
August 2023				
8/9/2023	680-238921-1	T-09-R	T-09-R	Water
8/9/2023	680-238921-2	T-09-RF	T-09-R	Water
8/9/2023	680-238921-3	Field Duplicate 4	T-09-R	Water
8/9/2023	680-238921-4	Purge Water	EFFLUENT	Water
October 2023				
10/17/2023	680-241901-1	MW-01B	MW-01B	Water
10/17/2023	680-241901-2	MW-11A	MW-11A	Water
10/17/2023	680-241901-3	MW-12A	MW-12A	Water
10/18/2023	680-241901-4	MW-13A-R	MW-13A-R	Water
10/18/2023	680-241901-5	Trip Blank	Trip Blank	Water
10/18/2023	680-241967-1	MW-20A	MW-20A	Water
10/18/2023	680-241967-2	MW-16	MW-16	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

SampleDate	LabID	SampleID	LocationID	Matrix
October 2023 (Cont.)				
10/18/2023	680-241967-3	MW-15	MW-15	Water
10/18/2023	680-241967-4	Duplicate	MW-20A	Water
10/19/2023	680-241967-5	Trip Blank 20231019 518	Trip Blank	Water

Notes:

1. Samples analyzed by Eurofins Denver, Eurofins Savannah, and Eurofins Lancaster Laboratories Environment Testing.

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
April 2023									
MW-01B	4/11/2023	Parathion	1	<U H	ug/L	UJ	Extracted outside holding time	280-610058	680-233553-1
MW-01B	4/11/2023	Tetraethyldithiopyrophosphate	1.5	<U H	ug/L	UJ	Extracted outside holding time	280-610058	680-233553-1
MW-11A	4/11/2023	Parathion	1	<U H	ug/L	UJ	Extracted outside holding time	280-610058	680-233553-2
MW-12A	4/11/2023	4-Nitrophenol	25	<U H	ug/L	UJ	Extracted outside holding time	680-777592	680-233553-3
MW-12A	4/11/2023	o, o, o-Triethyl phosphorothioate	23	H	ug/L	J	Extracted outside holding time	680-777592	680-233553-3
MW-12A	4/11/2023	Parathion	1	<U H	ug/L	UJ	Extracted outside holding time	280-610058	680-233553-3
T-10	4/11/2023	4-Nitrophenol	25	<U	ug/L	UJ	Not cooled at temperature ≤ 6°C	680-774506	680-233552-1
T-10	4/11/2023	Parathion	1	<U H	ug/L	UJ	Extracted outside holding time and not cooled at temperature ≤ 6°C	280-610058	680-233552-1
T-10	4/11/2023	PCB-1016	0.5	<U	ug/L	UJ	Not cooled at temperature ≤ 6°C	680-777391	680-233552-1
T-10	4/11/2023	PCB-1221	0.5	<U	ug/L	UJ	Not cooled at temperature ≤ 6°C	680-777391	680-233552-1
T-10	4/11/2023	PCB-1232	0.5	<U	ug/L	UJ	Not cooled at temperature ≤ 6°C	680-777391	680-233552-1
T-10	4/11/2023	PCB-1242	0.5	<U	ug/L	UJ	Not cooled at temperature ≤ 6°C	680-777391	680-233552-1
T-10	4/11/2023	PCB-1248	0.5	<U	ug/L	UJ	Not cooled at temperature ≤ 6°C	680-777391	680-233552-1
T-10	4/11/2023	PCB-1254	0.5	<U	ug/L	UJ	Not cooled at temperature ≤ 6°C	680-777391	680-233552-1
T-10	4/11/2023	PCB-1260	0.5	<U *	ug/L	UJ	Not cooled at temperature ≤ 6°C	680-777391	680-233552-1
T-10	4/11/2023	PCB-1268	0.5	<U	ug/L	UJ	Not cooled at temperature ≤ 6°C	680-777391	680-233552-1
MW-15F	4/12/2023	PCB-1016, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233598-4
MW-15F	4/12/2023	PCB-1221, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233598-4
MW-15F	4/12/2023	PCB-1232, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233598-4
MW-15F	4/12/2023	PCB-1242, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233598-4
MW-15F	4/12/2023	PCB-1248, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233598-4
MW-15F	4/12/2023	PCB-1254, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233598-4
MW-15F	4/12/2023	PCB-1260, Dissolved	0.5	<U *	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233598-4
MW-15F	4/12/2023	PCB-1268, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233598-4
OWR-15D	4/13/2023	PCB-1221	43	H	ug/L	J	Analyzed outside holding time	680-785331	680-233638-2
OWR-15DF	4/13/2023	PCB-1016, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233638-3
OWR-15DF	4/13/2023	PCB-1221, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233638-3
OWR-15DF	4/13/2023	PCB-1232, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233638-3
OWR-15DF	4/13/2023	PCB-1242, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233638-3
OWR-15DF	4/13/2023	PCB-1248, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233638-3
OWR-15DF	4/13/2023	PCB-1254, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233638-3
OWR-15DF	4/13/2023	PCB-1260, Dissolved	0.5	<U *	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233638-3
OWR-15DF	4/13/2023	PCB-1268, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777391	680-233638-3
Field Duplicate 1	4/14/2023	Mercury	0.0002	<U	mg/L	UJ	MS/MSD recoveries below lower control limits	680-774083	680-233641-5
Field Duplicate 1	4/14/2023	PCB-1016	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777396	680-233641-5
Field Duplicate 1	4/14/2023	PCB-1221	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777396	680-233641-5
Field Duplicate 1	4/14/2023	PCB-1232	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777396	680-233641-5
Field Duplicate 1	4/14/2023	PCB-1242	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777396	680-233641-5
Field Duplicate 1	4/14/2023	PCB-1248	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777396	680-233641-5
Field Duplicate 1	4/14/2023	PCB-1254	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777396	680-233641-5
Field Duplicate 1	4/14/2023	PCB-1260	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777396	680-233641-5
Field Duplicate 1	4/14/2023	PCB-1268	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777396	680-233641-5
Field Duplicate 2	4/14/2023	Manganese	0.018		mg/L	J	Original and duplicate sample RPD exceeds control limits	680-774341	680-233701-13
Field Duplicate 2	4/14/2023	Total Pentachlorobiphenyls	0.2		ug/L	J	Original and duplicate sample RPD not calculated due to a non-detect result.	410-375831	680-233701-13
MW-09A	4/14/2023	1,2-Dichlorobenzene	10	<U	ug/L	UJ	Surrogates Nitrobenzene-d5, Phenol-d5, and 2,4,6-Tribromophenol recovered low	680-775843	680-233641-2
MW-09A	4/14/2023	1,4-Dichlorobenzene	10	<U	ug/L	UJ	Surrogates Nitrobenzene-d5, Phenol-d5, and 2,4,6-Tribromophenol recovered low	680-775843	680-233641-2
MW-09A	4/14/2023	4-Nitrophenol	25	<U	ug/L	UJ	Surrogates Nitrobenzene-d5, Phenol-d5, and 2,4,6-Tribromophenol recovered low	680-775843	680-233641-2
MW-09A	4/14/2023	o, o, o-Triethyl phosphorothioate	10	<U	ug/L	UJ	Surrogates Nitrobenzene-d5, Phenol-d5, and 2,4,6-Tribromophenol recovered low	680-775843	680-233641-2
MW-20A	4/14/2023	Mercury	0.0002	<U F1	mg/L	UJ	MS/MSD recoveries below lower control limits	680-774083	680-233641-3
MW-20AF	4/14/2023	PCB-1016, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-4
MW-20AF	4/14/2023	PCB-1221, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-4
MW-20AF	4/14/2023	PCB-1232, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-4
MW-20AF	4/14/2023	PCB-1242, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-4
MW-20AF	4/14/2023	PCB-1248, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-4
MW-20AF	4/14/2023	PCB-1254, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-4
MW-20AF	4/14/2023	PCB-1260, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-4
MW-20AF	4/14/2023	PCB-1268, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-4

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
April 2023 (Cont.)									
OW-22	4/14/2023	Chlorobenzene	1	<U	ug/L	UJ	Analyzed outside holding time	680-780338	680-233641-6
OW-22F	4/14/2023	PCB-1016, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-7
OW-22F	4/14/2023	PCB-1221, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-7
OW-22F	4/14/2023	PCB-1232, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-7
OW-22F	4/14/2023	PCB-1242, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-7
OW-22F	4/14/2023	PCB-1248, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-7
OW-22F	4/14/2023	PCB-1254, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-7
OW-22F	4/14/2023	PCB-1260, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-7
OW-22F	4/14/2023	PCB-1268, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits	680-777396	680-233641-7
OWR-13F	4/14/2023	PCB-1016, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-781978	680-233701-6
OWR-13F	4/14/2023	PCB-1221, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-781978	680-233701-6
OWR-13F	4/14/2023	PCB-1232, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-781978	680-233701-6
OWR-13F	4/14/2023	PCB-1242, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-781978	680-233701-6
OWR-13F	4/14/2023	PCB-1248, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-781978	680-233701-6
OWR-13F	4/14/2023	PCB-1254, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-781978	680-233701-6
OWR-13F	4/14/2023	PCB-1260, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-781978	680-233701-6
OWR-13F	4/14/2023	PCB-1268, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-781978	680-233701-6
OWR-14D	4/14/2023	Manganese	12		ug/L	J	Original and duplicate sample RPD exceeds control limits	680-774341	680-233701-11
OWR-14D	4/14/2023	Total Pentachlorobiphenyls	0.2	<U	ug/L	UJ	Original and duplicate sample RPD not calculated due to a non-detect result.	410-375831	680-233701-11
MW-14	4/15/2023	Parathion	1	<U H	ug/L	UJ	Extracted outside holding time.	280-610700	680-233705-1
MW-14	4/15/2023	Tetraethyldithiopyrophosphate	1.5	<U H	ug/L	UJ	Extracted outside holding time.	280-610700	680-233705-1
OW-08A	4/16/2023	Parathion	1	<U H	ug/L	UJ	Extracted outside holding time.	280-610700	680-233705-4
OW-08A	4/16/2023	Tetraethyldithiopyrophosphate	1.5	<U H	ug/L	UJ	Extracted outside holding time.	280-610700	680-233705-4
OW-21A	4/16/2023	Parathion	1900	H	ug/L	J	Extracted outside holding time; low triphenylphosphate surrogate recovery.	280-611241	680-233705-6
OW-21A	4/16/2023	Tetraethyldithiopyrophosphate	1.5	<U H	ug/L	UJ	Extracted outside holding time.	280-610700	680-233705-6
OW-21AF	4/16/2023	PCB-1016, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233705-7
OW-21AF	4/16/2023	PCB-1221, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233705-7
OW-21AF	4/16/2023	PCB-1232, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233705-7
OW-21AF	4/16/2023	PCB-1242, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233705-7
OW-21AF	4/16/2023	PCB-1248, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233705-7
OW-21AF	4/16/2023	PCB-1254, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233705-7
OW-21AF	4/16/2023	PCB-1260, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233705-7
OW-21AF	4/16/2023	PCB-1268, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233705-7
OW-15F	4/17/2023	PCB-1016, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777401	680-233804-2
OW-15F	4/17/2023	PCB-1221, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777401	680-233804-2
OW-15F	4/17/2023	PCB-1232, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777401	680-233804-2
OW-15F	4/17/2023	PCB-1242, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777401	680-233804-2
OW-15F	4/17/2023	PCB-1248, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777401	680-233804-2
OW-15F	4/17/2023	PCB-1254, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777401	680-233804-2
OW-15F	4/17/2023	PCB-1260, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777401	680-233804-2
OW-15F	4/17/2023	PCB-1268, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery	680-777401	680-233804-2
OW-16AF	4/17/2023	PCB-1016, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit	680-777401	680-233804-4
OW-16AF	4/17/2023	PCB-1221, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit	680-777401	680-233804-4
OW-16AF	4/17/2023	PCB-1232, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit	680-777401	680-233804-4
OW-16AF	4/17/2023	PCB-1242, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit	680-777401	680-233804-4
OW-16AF	4/17/2023	PCB-1248, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit	680-777401	680-233804-4
OW-16AF	4/17/2023	PCB-1254, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit	680-777401	680-233804-4
OW-16AF	4/17/2023	PCB-1260, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit	680-777401	680-233804-4
OW-16AF	4/17/2023	PCB-1268, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit	680-777401	680-233804-4
OWR-11F	4/17/2023	PCB-1016, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233802-2
OWR-11F	4/17/2023	PCB-1221, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233802-2
OWR-11F	4/17/2023	PCB-1232, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233802-2
OWR-11F	4/17/2023	PCB-1242, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233802-2
OWR-11F	4/17/2023	PCB-1248, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233802-2
OWR-11F	4/17/2023	PCB-1254, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233802-2
OWR-11F	4/17/2023	PCB-1260, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233802-2
OWR-11F	4/17/2023	PCB-1268, Dissolved	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-777396	680-233802-2

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
April 2023 (Cont.)									
Purgewater	4/17/2023	PCB-1016	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-780802	680-233802-3
Purgewater	4/17/2023	PCB-1221	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-780802	680-233802-3
Purgewater	4/17/2023	PCB-1232	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-780802	680-233802-3
Purgewater	4/17/2023	PCB-1242	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-780802	680-233802-3
Purgewater	4/17/2023	PCB-1248	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-780802	680-233802-3
Purgewater	4/17/2023	PCB-1254	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-780802	680-233802-3
Purgewater	4/17/2023	PCB-1260	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-780802	680-233802-3
Purgewater	4/17/2023	PCB-1268	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-780802	680-233802-3
June 2023									
T-18	6/14/2023	PCB-1016	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-785956	680-236448-14
T-18	6/14/2023	PCB-1221	16	p	ug/L	J	Low DCB surrogate recovery.	680-785956	680-236448-14
T-18	6/14/2023	PCB-1232	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-785956	680-236448-14
T-18	6/14/2023	PCB-1242	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-785956	680-236448-14
T-18	6/14/2023	PCB-1248	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-785956	680-236448-14
T-18	6/14/2023	PCB-1254	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-785956	680-236448-14
T-18	6/14/2023	PCB-1260	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-785956	680-236448-14
T-18	6/14/2023	PCB-1268	0.5	<U	ug/L	UJ	Low DCB surrogate recovery.	680-785956	680-236448-14
October 2023									
MW-01B	10/17/2023	Cobalt	0.010	<U	mg/L	UJ	A LCS was not prepared.	680-805623	680-241901-1
Duplicate	10/18/2023	Chlorobenzene	1.4		ug/L	J	RPD between original and duplicate not calculated due to a non-detect result.	680-805602	680-241967-4
MW-20A	10/18/2023	Chlorobenzene	1.0	<U	ug/L	UJ	RPD between original and duplicate not calculated due to a non-detect result.	680-805602	680-241967-1

Notes:

1. Samples analyzed by Eurofins Denver, Eurofins Savannah, and Eurofins Lancaster Laboratories Environment Testing

2. DCB = Decachlorobiphenyl

LCS = Lab Control Sample

LCSD = Lab Control Sample Duplicate

MDL = Method Detection Limit

PCB = Polychlorinated Biphenyl

3. Lab Qualifier Codes:

<U = Analyte was not detected at or above the reporting limit

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.

*+ = LCS and/or LCSD is outside acceptance limits, high biased.

*- = LCS and/or LCSD is outside acceptance limits, low biased.

*1 = LCS/LCSD RPD exceeds control limits.

4. Validation Qualifier Codes:

J = Estimated, the analyte was detected and identified

UJ = Not detected, estimated

R = Rejected

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 (ug/L)	Duplicate Result (ug/L)	RPD (%)	Within Limits
April 2023									
MW-20A	Field Duplicate 1	No	4/14/2023	Water	Chlorobenzene	2	2	0.0	Yes
MW-20A	Field Duplicate 1	No	4/14/2023	Water	o, o, o-Triethyl phosphorothioate	38	41	7.6	Yes
MW-20A	Field Duplicate 1	No	4/14/2023	Water	Pentachlorophenol, 8270 SIM	5	5.5	9.5	Yes
OW-10F	Field Duplicate 3F	Yes	4/14/2023	Water	Beryllium	5.2	5.4	3.8	Yes
OW-10	Field Duplicate 3	No	4/14/2023	Water	Beryllium	4.1	4.1	0.0	Yes
OW-10F	Field Duplicate 3F	Yes	4/14/2023	Water	Manganese	580	720	21.5	Yes
OW-10	Field Duplicate 3	No	4/14/2023	Water	Manganese	1100	1100	0.0	Yes
OW-10F	Field Duplicate 3F	Yes	4/14/2023	Water	Mercury	5.7	6.9	19.0	Yes
OW-10	Field Duplicate 3	No	4/14/2023	Water	Mercury	4.2	4.1	2.4	Yes
OW-10	Field Duplicate 3	No	4/14/2023	Water	Trichloroethylene	3.3	3.2	3.1	Yes
OWR-14D	Field Duplicate 2	No	4/14/2023	Water	Manganese	12 J	18 J	40.0	No
OWR-14D	Field Duplicate 2	No	4/14/2023	Water	Pentachlorobiphenyl	<0.2 J	0.2 J	NC	No
OWR-14D	Field Duplicate 2	No	4/14/2023	Water	Tetrachlorobiphenyl	0.38	0.42	10.0	Yes
October 2023									
MW-20A	Duplicate	No	10/18/2023	Water	Chlorobenzene	<1 J	1.4 J	NC	No
MW-20A	Duplicate	No	10/18/2023	Water	o, o, o-Triethyl phosphorothioate	59	69	15.6	Yes

Notes:

1. Samples analyzed by Eurofins Denver, Eurofins Savannah, and Eurofins Lancaster Laboratories Environment Testing

2. $RPD = \frac{ABS(((SR - DR) * 200))}{(SR + DR)}$
 SR = Sample Result

DR = Duplicate Result
 NC = Not Calculated

**2023 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

Appendix G. Mann-Kendall Statistical Analyses

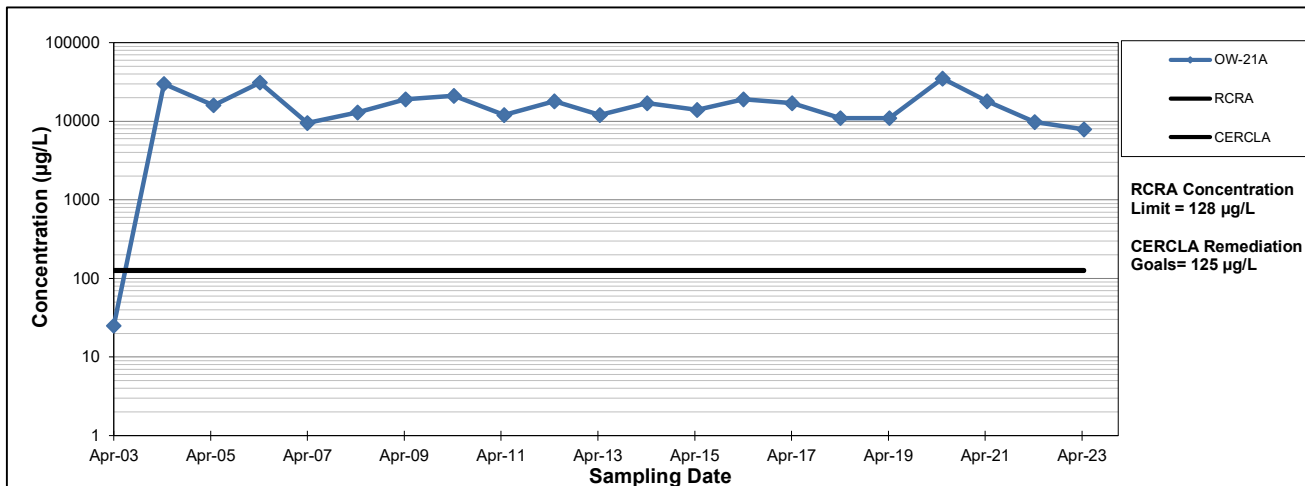
FIGURE G.1
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
4-NITROPHENOL - RCRA CORRECTIVE ACTION MONITORING

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

Date Analyzed: **23 January 2024**
 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				
19	Apr-21	18000	18000				
20	Apr-22	9800	9800				
21	Apr-23	7900	7900				
Coefficient of Variation:		0.50	0.44				
Mann-Kendall Statistic (S):		-29	-49				
Confidence Factor:		79.9%	94.0%				
Concentration Trend:		Stable	Prob. Decreasing				



Notes:

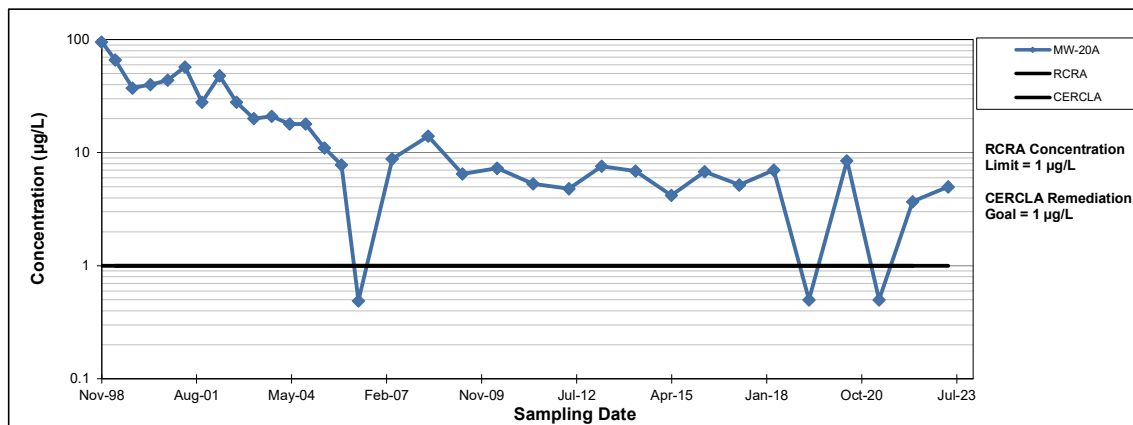
- At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
 ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
- 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.
- Non-detects are shown in blue (e.g., 0.0007), and are quantified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
- For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
- When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

**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: 23 January 2024	Constituent: Pentachlorophenol
Facility: Solutia, Anniston	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					
31	Apr-21	0.5					
32	Apr-22	3.7					
33	Apr-23	5.0					
Coefficient of Variation:		1.13					
Mann-Kendall Statistic (S):		-381					
Confidence Factor:		>99.9%					
Concentration Trend:		Decreasing					



- Notes:**
- At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
 - 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.
 - 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.
 - Non-detects are shown in blue (e.g., 0.0007), and are quantified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
 - For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
 - When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

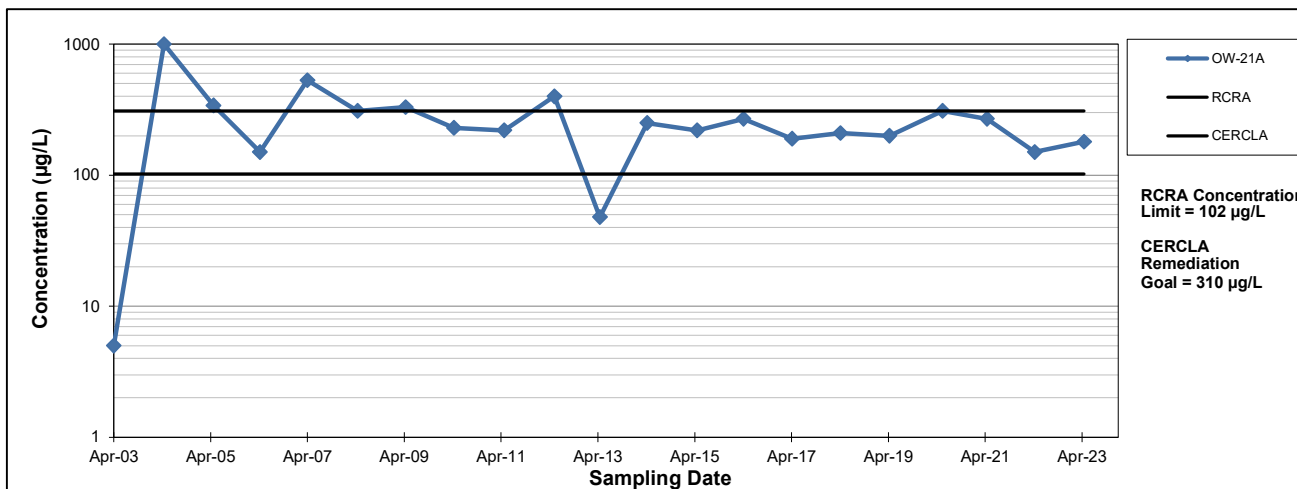
FIGURE G.3
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
O, O, O-TRIETHYL PHOSPHOROTHIOATE - RCRA CORRECTIVE ACTION MONITORING

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

Date Analyzed: **23 January 2024**
 Facility: **Solutia, Anniston**

Constituent: **o, o, o-Triethyl phosphorothioate**
 Concentration Units: **µg/L**

Well Identification:		OW-21A						
Sampling Event	Date	O, O, O-TRIETHYL PHOSPHOROTHIOATE 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						
19	Apr-21	270						
20	Apr-22	150						
21	Apr-23	180						
Coefficient of Variation:		0.73						
Mann-Kendall Statistic (S):		-54						
Confidence Factor:		94.5%						
Concentration Trend:		Prob. Decreasing						



Notes:

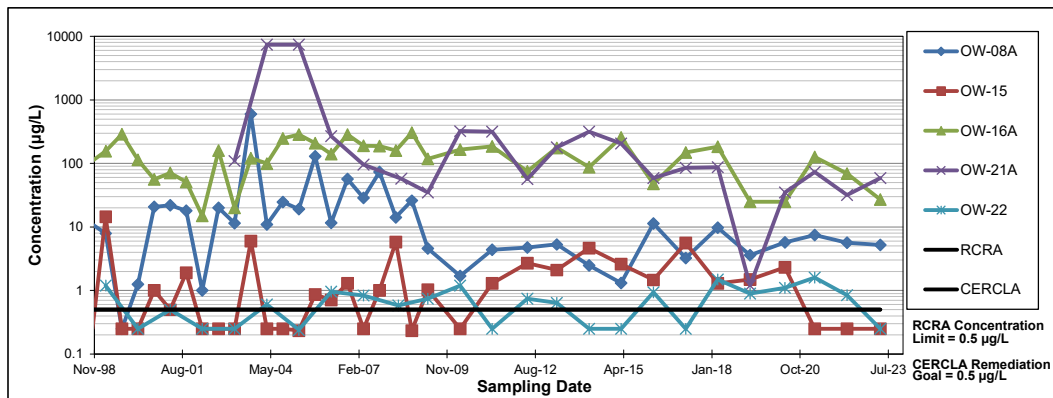
- At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
 ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
- 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.
- Non-detects are shown in blue (e.g., 0.0007), and are quantified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
- For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
- When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

**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: 23 January 2024	Constituent: Total PCBs
Facility: Solutia, Anniston	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	-	0.25		
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		
36	Apr-21	7.5	0.25	127	73.8	1.6		
37	Apr-22	5.68	0.25	69	31.88	0.84		
38	Apr-23	5.2	0.25	27	58.7	0.25		
Coefficient of Variation:		3.05	1.54	0.61	2.67	0.61		
Mann-Kendall Statistic (S):		-105	103	-45	-90	56		
Confidence Factor:		92.1%	91.7%	72.5%	99.7%	89.9%		
Concentration Trend:		Prob. Decreasing	Prob. Increasing	Stable	Decreasing	No Trend		



- Notes:**
- At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
 - 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.
 - 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.
 - Non-detects are shown in blue (e.g., 0.0007), and are quantified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
 - For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
 - When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

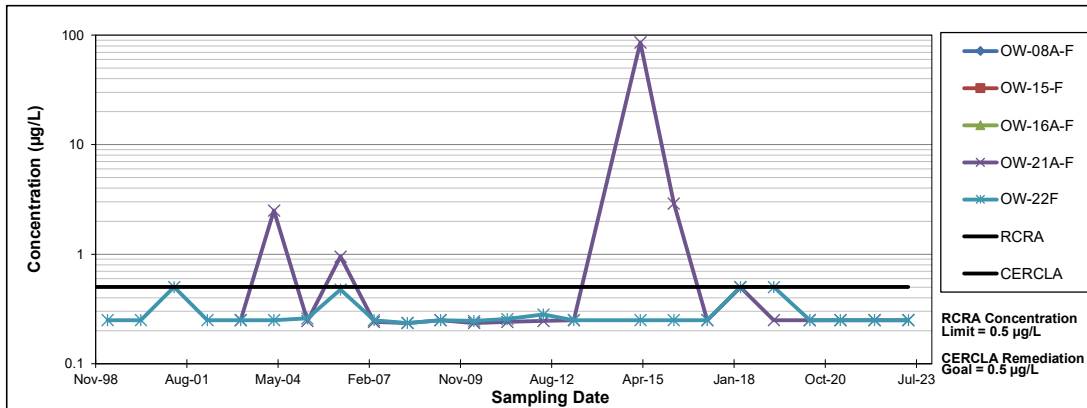
FIGURE G.5
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
TOTAL PCBs - FILTERED - RCRA CORRECTIVE ACTION MONITORING

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

Date Analyzed: **23 January 2024**
 Facility: **Solutia, Anniston**

Constituent: **Total PCBs - Filtered**
 Concentration Units: **µg/L**

Well Identification:		OW-08A-F	OW-15-F	OW-16A-F	OW-21A-F	OW-22F		
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	-	0.25		
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-15	0.25	0.25	0.25	85.8	0.25		
28	Apr-16	0.25	0.25	0.25	2.9	0.25		
29	Apr-17	0.25	0.25	0.25	0.25	0.25		
30	Apr-18	2.9	0.5	0.5	0.5	0.5		
31	Apr-19	0.50	0.5	0.5	0.25	0.5		
32	May-20	0.25	0.25	0.25	0.25	0.25		
33	Apr-21	0.25	0.25	1.8	0.25	0.25		
34	Apr-22	0.25	0.25	0.25	0.25	0.25		
35	Apr-23	0.25	0.25	0.25	0.25	0.25		
Coefficient of Variation:		3.09	0.49	2.50	3.96	0.32		
Mann-Kendall Statistic (S):		-86	-33	-59	21	2		
Confidence Factor:		88.6%	67.4%	79.4%	74.0%	51.0%		
Concentration Trend:		No Trend	Stable	No Trend	No Trend	No Trend		



- Notes:**
- At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
 - 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.
 - 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.
 - Non-detects are shown in blue (e.g., 0.0007), and are quantified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
 - For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
 - When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

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

Date Analyzed: **23 January 2024**
 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						
19	May-20	4900						
20	Apr-21	3300						
21	Apr-22	280						
22	Apr-23	1900						
Coefficient of Variation:		0.64						
Mann-Kendall Statistic (S):		-74						
Confidence Factor:		98.1%						
Concentration Trend:		Decreasing						

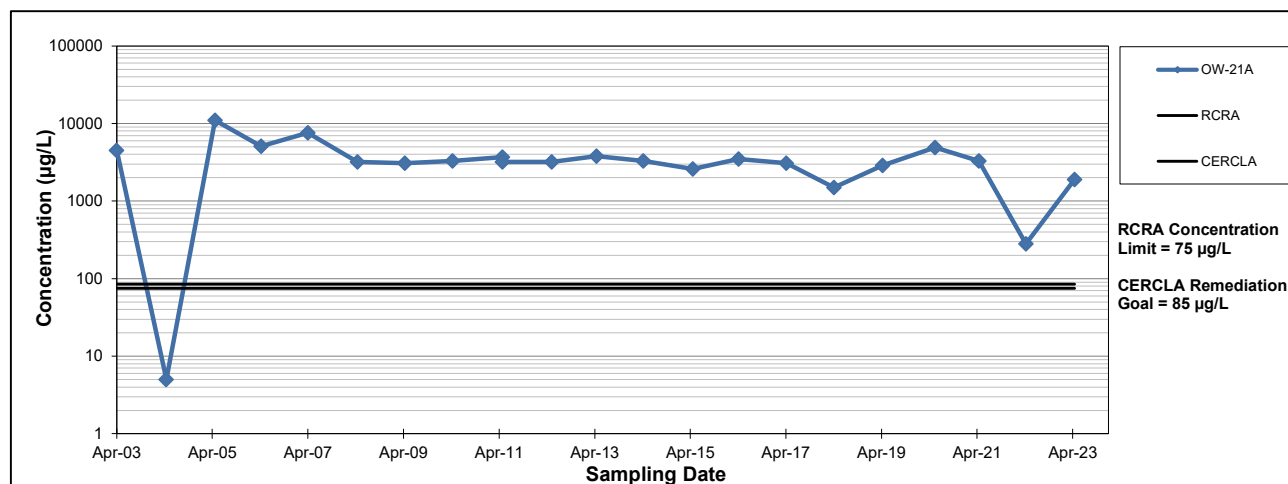


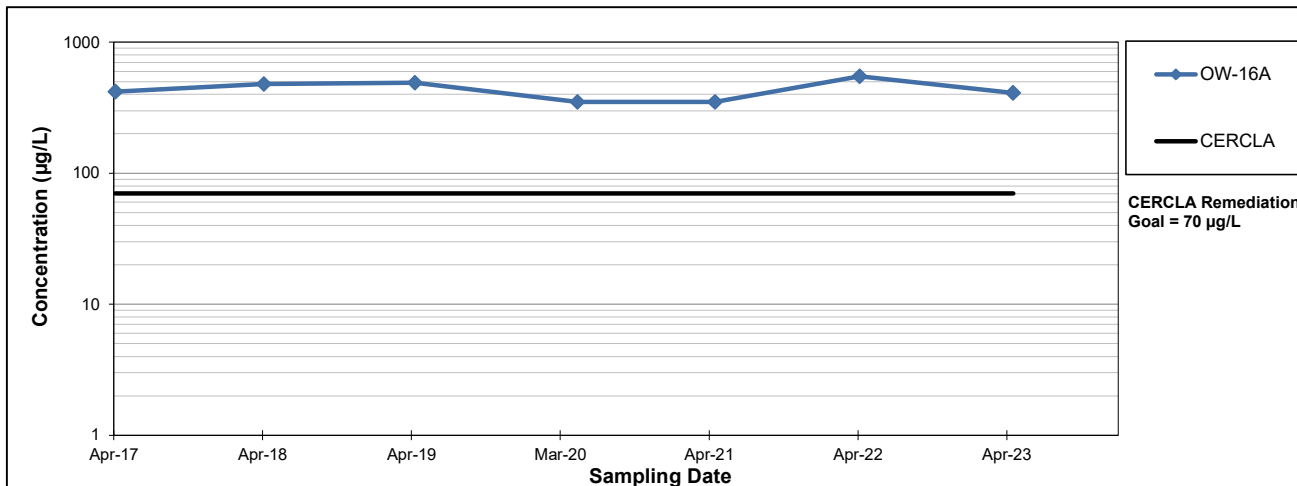
FIGURE G.7
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
1,2,4-TRICHLOROBENZENE - CERCLA REMEDIAL ACTION

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

Date Analyzed: **23 January 2024**
 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						
5	Apr-21	350						
6	Apr-22	550						
7	Apr-23	410						
Coefficient of Variation:		0.17						
Mann-Kendall Statistic (S):		0						
Confidence Factor:		37.9%						
Concentration Trend:		Stable						



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
- 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.
- 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.
- Non-detects are shown in blue (e.g., **0.0007**), and are quantified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
- For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
- When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

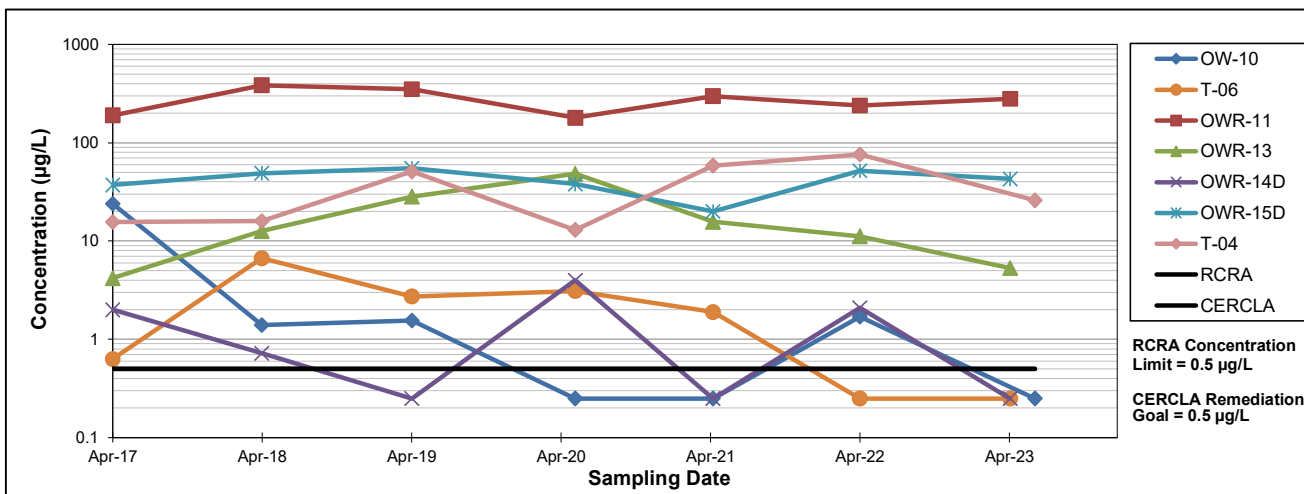
FIGURE G.8(A)
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
TOTAL PCB AROCLORS - CERCLA REMEDIAL ACTION

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

Date Analyzed: **23 January 2024**
 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	4.0	38	13	3.1
5	Apr-21	0.25	299.5	15.7	0.25	20	58.75	1.9
6	Apr-22	1.7	240	11.2	2.1	51.84	76.2	0.25
7	Apr-23	-	280	5.3	0.25	43	-	0.25
8	Jun-23	0.25	-	-	-	-	26	-
Coefficient of Variation:		2.08	0.28	0.87	1.04	0.28	0.69	1.03
Mann-Kendall Statistic (S):		-8	-3	-1	-4	1	9	-10
Confidence Factor:		84.5%	61.4%	50.0%	66.7%	50.0%	88.1%	90.7%
Concentration Trend:		No Trend	Stable	Stable	No Trend	No Trend	No Trend	Prob. Decreasing



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
- 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.
- 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.
- Non-detects are shown in blue (e.g., 0.0007), and are quantified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
- For events with duplicate samples since 2018, the trend calculation is based on the original sample result unless the duplicate sample results represents the only exceedance of the CERCLA Remediation Goal. See Appendix E for original and duplicate sample results.
- When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

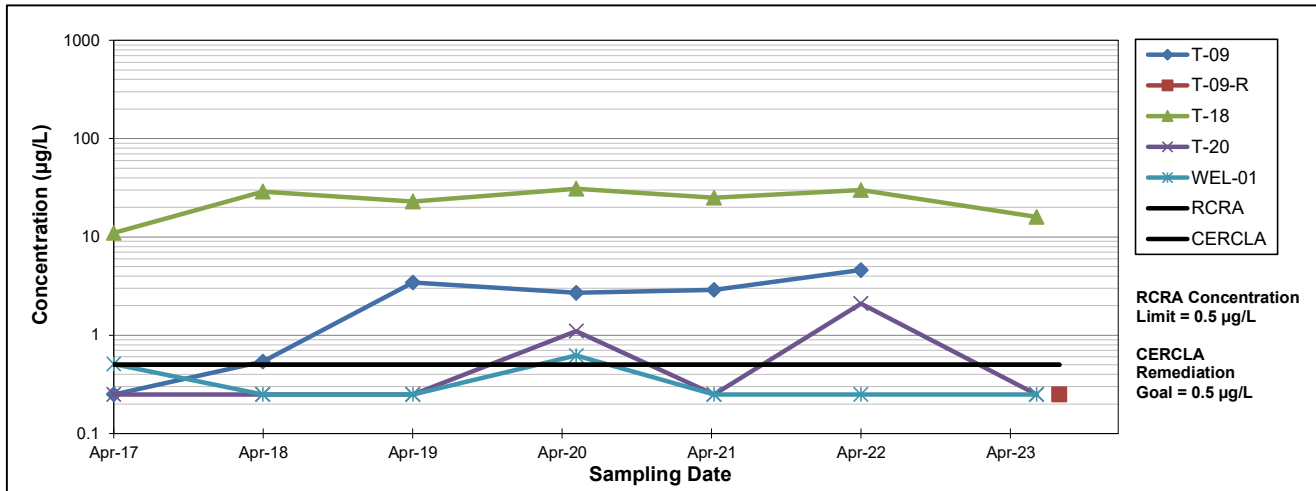
FIGURE G.8(B)
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
TOTAL PCB AROCLORS - CERCLA REMEDIAL ACTION

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

Date Analyzed: **23 January 2024**
 Facility: **Solutia, Anniston**

Constituent: **Total PCB Aroclors**
 Concentration Units: **µg/L**

Well Identification:		T-09	T-09-R	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		
5	Apr-21	2.9	-	25	0.25	0.25		
6	Apr-22	4.59	-	30	2.1	0.25		
7	Jun-23	-	-	16	0.25	0.25		
8	Aug-23	Note 7	0.25	-	-	-		
Coefficient of Variation:				0.32	1.13	0.46		
Mann-Kendall Statistic (S):				3	5	-5		
Confidence Factor:				61.4%	71.9%	71.9%		
Concentration Trend:				No Trend	No Trend	Stable		



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
- 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.
- 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.
- Non-detects are shown in blue (e.g., 0.0007), and are quantified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
- For events with duplicate samples since 2018, the trend calculation is based on the original sample result unless the duplicate sample results represents the only exceedance of the CERCLA Remediation Goal. See Appendix E for original and duplicate sample results.
- When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.
- Well T-09 was plugged and abandoned in July 2023. Trend statistics are not calculated based on the previous finding of compromised well integrity.

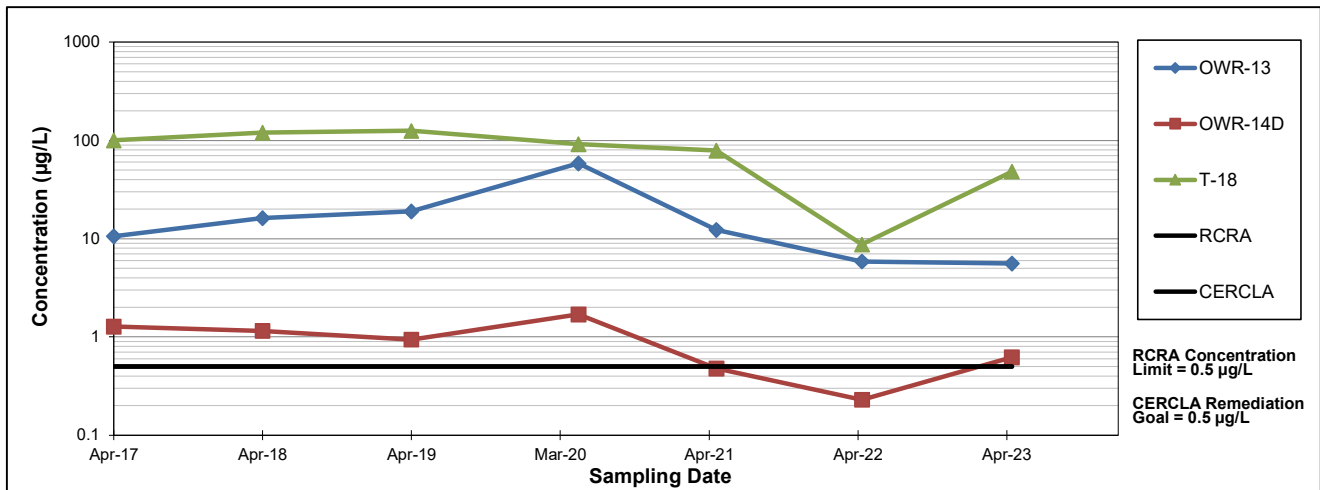
FIGURE G.9
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
TOTAL PCB HOMOLOGS - CERCLA REMEDIAL ACTION

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

Date Analyzed: **23 January 2024**
 Facility: **Solutia, Anniston**

Constituent: **Total PCB Homologs**
 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				
5	Apr-21	12.31	0.48	78.73				
6	Apr-22	5.85	0.23	8.76				
7	Apr-23	5.6	0.62	48				
Coefficient of Variation:		1.01	0.56	0.51				
Mann-Kendall Statistic (S):		-7	-11	-13				
Confidence Factor:		80.9%	93.2%	96.5%				
Concentration Trend:		No Trend	Prob. Decreasing	Decreasing				



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
- 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.
- 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.
- Non-detects are shown in blue (e.g., 0.0007), and are quantified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
- For events with duplicate samples since 2018, the trend calculation is based on the original sample result unless the duplicate sample results represents the only exceedance of the CERCLA Remediation Goal. See Appendix E for original and duplicate sample results.
- When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

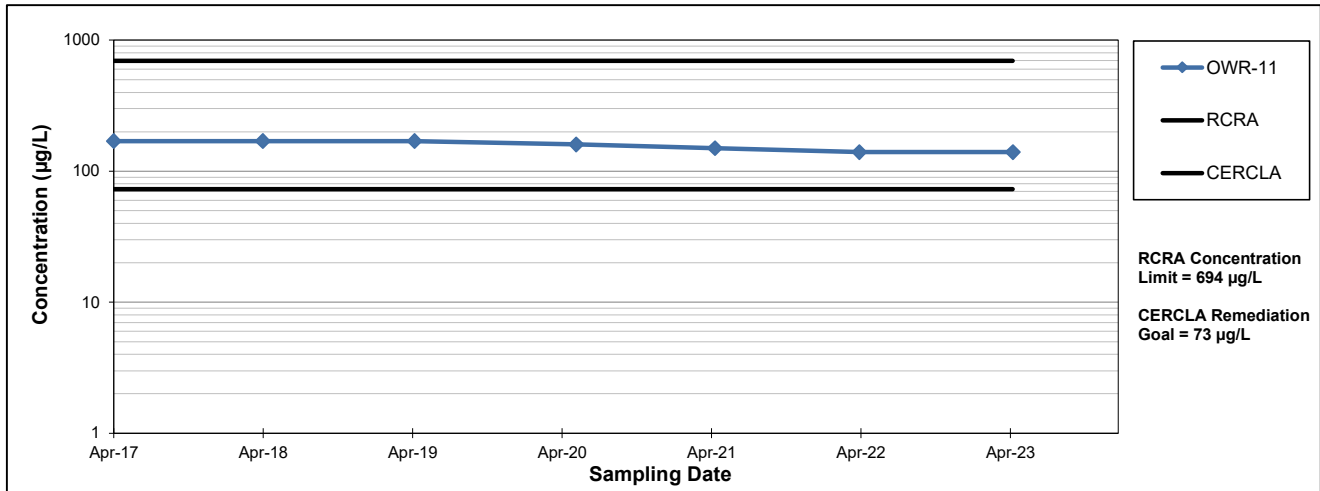
**FIGURE G.10
 RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
 COBALT**

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

Date Analyzed: **23 January 2024**
 Facility: **Solutia, Anniston**

Constituent: **Cobalt**
 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						
5	Apr-21	150						
6	Apr-22	140						
7	Apr-23	140						
Coefficient of Variation:		0.09						
Mann-Kendall Statistic (S):		-17						
Confidence Factor:		99.5%						
Concentration Trend:		Decreasing						



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
- 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.
- 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.
- Non-detects are shown in blue (e.g., **0.0007**), and are quantified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
- For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
- When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

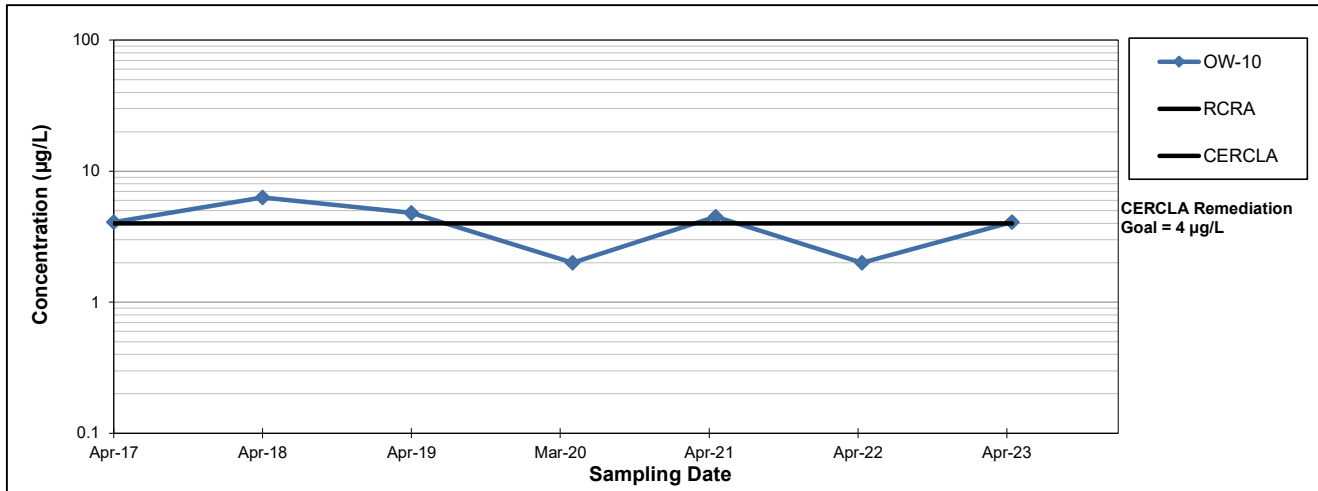
**FIGURE G.11
 RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
 BERYLLIUM**

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

Date Analyzed: **23 January 2024**
 Facility: **Solutia, Anniston**

Constituent: **Beryllium**
 Concentration Units: **µg/L**

Well Identification:		OW-10						
Sampling Event	Date	BERYLLIUM CONCENTRATION (µg/L)						
1	Apr-17	4.1						
2	Apr-18	6.3						
3	Apr-19	4.8						
4	May-20	2						
5	Apr-21	4.5						
6	Apr-22	2						
7	Apr-23	4.1						
Coefficient of Variation:		0.39						
Mann-Kendall Statistic (S):		-7						
Confidence Factor:		80.9%						
Concentration Trend:		Stable						



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
- 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.
- 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.
- Non-detects are shown in blue (e.g., 0.0007), and are quantified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
- The trend calculation for Beryllium in OW-10 is based on original unfiltered sample results, unless a duplicate or filtered result for a specific sampling event represented the only exceedance of the CERCLA Remediation Goal for that event. See Appendix E for duplicate sample results.
- When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

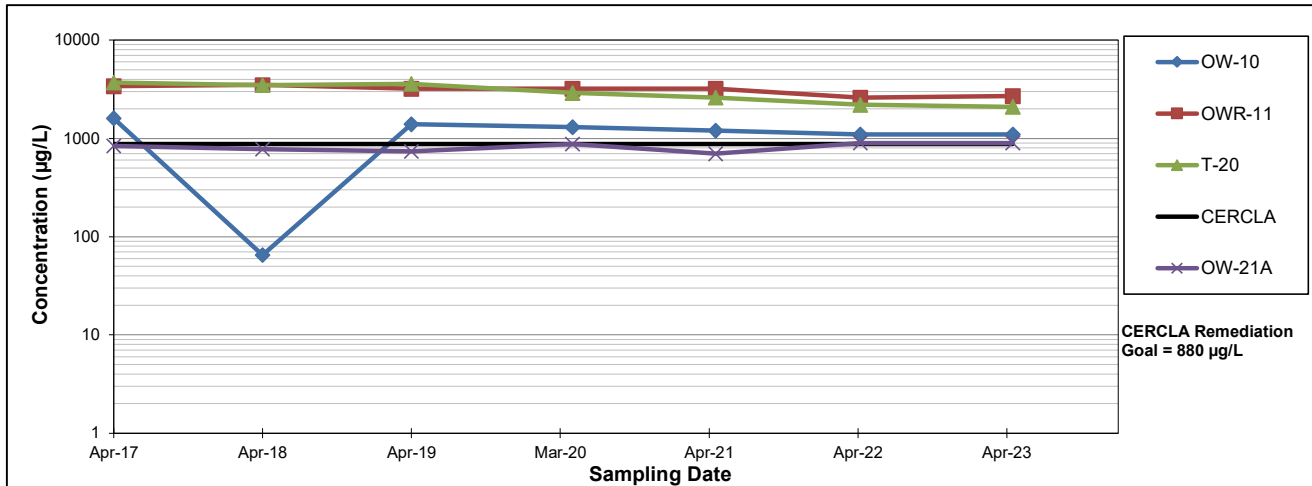
**FIGURE G.12
 RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
 MANGANESE**

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

Date Analyzed: **23 January 2024**
 Facility: **Solutia, Anniston**

Constituent: **Manganese**
 Concentration Units: **µg/L**

Well Identification:		OW-10	OWR-11	T-20	OW-21A			
Sampling Event	Date	MANGANESE CONCENTRATION (µg/L)						
1	Apr-17	1600	3400	3700	840			
2	Apr-18	65	3500	3500	780			
3	Apr-19	1400	3200	3600	740			
4	May-20	1300	3200	2900	880			
5	Apr-21	1200	3200	2600	700			
6	Apr-22	1100	2600	2200	900			
7	Apr-23	1100	2700	2100	900			
Coefficient of Variation:		0.44	0.11	0.23	0.10			
Mann-Kendall Statistic (S):		-10	-14	-19	6			
Confidence Factor:		90.7%	97.5%	99.9%	76.4%			
Concentration Trend:		Prob. Decreasing	Decreasing	Decreasing	No Trend			



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
- 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.
- 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.
- Non-detects are shown in blue (e.g., 0.0007), and are quantified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
- For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
- When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

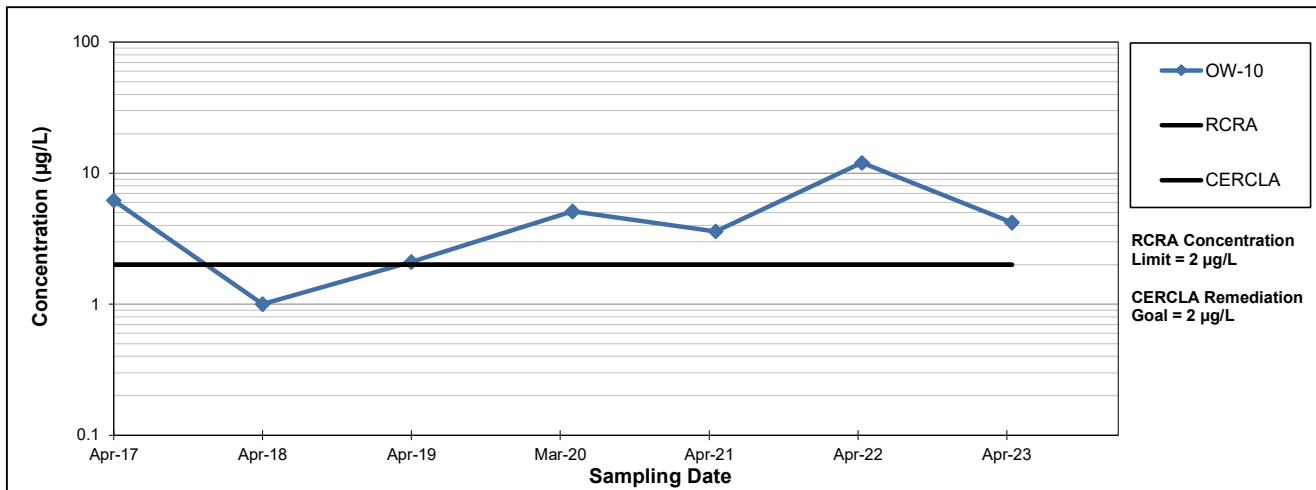
**FIGURE G.13
 RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
 MERCURY**

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

Date Analyzed: **23 January 2024**
 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						
5	Apr-21	3.6						
6	Apr-22	12						
7	Apr-23	4.2						
Coefficient of Variation:		0.73						
Mann-Kendall Statistic (S):		5						
Confidence Factor:		71.9%						
Concentration Trend:		No Trend						



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
- 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.
- 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.
- Non-detects are shown in blue (e.g., 0.0007), and are quantified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
- For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
- When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

**2023 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

Appendix H. Laboratory Reports

SPRING 2023 LABORATORY REPORTS

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QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc.
 Project Name: CERCLA Groundwater Monitoring
 Reviewer: Jessica Alanis

Project Manager: Noel Savoie
 Project Number: 680-233552-1
 Validation Date: 08/15/2023

Laboratory: Eurofins Savannah and Denver Laboratories

SDG #: 680-233552-1

Analytical Method (type and no.): SVOCS (8270D), PCBs (8081A/8082B), Pesticides (8141B)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____

Sample Names: T-10

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)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
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?	☐	☒	☐	<u>The temperature of the cooler at receipt time was 6.1 °C, slightly above the National Functional Guidelines upper limit of 6.0 °C. Non-detects are qualified UJ.</u>

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☐	☒	☐	<u>Parathion in sample T-10 was extracted outside of the 7-day holding time (8 days after sample collection). A strict interpretation of the NFG would indicate the non-detect result of parathion be rejected; however, the result was qualified as estimated (UJ) based on professional judgement and the following lines of evidence: 1. This sample result is in line with expected results as parathion has never been detected at T-10. 2. The hold time exceedance is minor.</u>
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?	☒	☐	☐	<u>The sample was cloudy in appearance.</u>

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?	☐	☒	☐	PCB-1260 recovered high (134%) above the upper laboratory limit of 130%. All associated sample results are non-detect; therefore, no qualification is required.

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 LCS/ LCSD RPDs <29%

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?	☐	☐	☒	_____

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☒	☐	Phenol-d5 recovered low (12%) below the lower laboratory limit of 27%. However, this surrogate is not associated with the target analyte 4-Nitrophenol; therefore, no qualification is required.
b) Were surrogate recoveries not calculated due to dilutions?	☐	☐	☒	_____

Comments/Notes:

Data Qualification:

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Sample Name	Constituent(s)	Result	Qualifier	Reason
T-10	Parathion	<1.0 ug/L	UJ	Extracted outside holding time and not cooled at temperature $\leq 6^{\circ}\text{C}$
T-10	PCB-1016	<0.5 ug/L	UJ	Not cooled at temperature $\leq 6^{\circ}\text{C}$
T-10	PCB-1221	<0.5 ug/L	UJ	Not cooled at temperature $\leq 6^{\circ}\text{C}$
T-10	PCB-1232	<0.5 ug/L	UJ	Not cooled at temperature $\leq 6^{\circ}\text{C}$
T-10	PCB-1242	<0.5 ug/L	UJ	Not cooled at temperature $\leq 6^{\circ}\text{C}$
T-10	PCB-1248	<0.5 ug/L	UJ	Not cooled at temperature $\leq 6^{\circ}\text{C}$
T-10	PCB-1254	<0.5 ug/L	UJ	Not cooled at temperature $\leq 6^{\circ}\text{C}$
T-10	PCB-1260	<0.5 ug/L	UJ	Not cooled at temperature $\leq 6^{\circ}\text{C}$
T-10	PCB-1268	<0.5 ug/L	UJ	Not cooled at temperature $\leq 6^{\circ}\text{C}$
T-10	4-Nitrophenol	<25 ug/L	UJ	Not cooled at temperature $\leq 6^{\circ}\text{C}$

Signature: _____

Jessica Adams

Date: 8/15/2023 _____

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Generated 5/9/2023 5:41:08 PM

JOB DESCRIPTION

Anniston CERCLA April 2023

JOB NUMBER

680-233552-1

Eurofins Savannah

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Noel Savoie, Project Manager I
Noel.Savoie@et.eurofinsus.com
(850)254-0107

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233552-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

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 2023

Job ID: 680-233552-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-233552-1	T-10	Water	04/11/23 15:34	04/13/23 10:30

1

2

3

4

5

6

7

8

9

10

11

12

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233552-1

Job ID: 680-233552-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-233552-1

Receipt

The sample was received on 4/13/2023 10:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.1°C

GC/MS Semi VOA

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base 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: T-10 (680-233552-1). 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.

GC Semi VOA

Method 8141B: The following sample was analyzed outside of holding time due to a scheduling error: T-10 (680-233552-1).

Method 8141B: The following sample T-10 (680-233552-1) was cloudy in appearance.

Method 8141B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-609225 method: 8141.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides/PCBs

Method 8081B_8082A: The laboratory control sample duplicate (LCSD) for preparation batch 680-777035 and analytical batch 680-777391 recovered outside control limits for the following analyte: PCB-1260. This analyte was biased high in the LCSD and was not detected in the associated samples; 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.

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233552-1

Client Sample ID: T-10

Lab Sample ID: 680-233552-1

Date Collected: 04/11/23 15:34

Matrix: Water

Date Received: 04/13/23 10:30

Method: SW846 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		04/15/23 21:15	04/20/23 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		32 - 113				04/15/23 21:15	04/20/23 22:33	1
2-Fluorophenol	43		26 - 109				04/15/23 21:15	04/20/23 22:33	1
Nitrobenzene-d5	60		32 - 118				04/15/23 21:15	04/20/23 22:33	1
Phenol-d5	12	S1-	27 - 110				04/15/23 21:15	04/20/23 22:33	1
Terphenyl-d14	69		10 - 126				04/15/23 21:15	04/20/23 22:33	1
2,4,6-Tribromophenol	79		39 - 124				04/15/23 21:15	04/20/23 22:33	1

Method: SW846 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		05/04/23 21:20	05/07/23 18:48	1
PCB-1221	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 18:48	1
PCB-1232	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 18:48	1
PCB-1242	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 18:48	1
PCB-1248	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 18:48	1
PCB-1254	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 18:48	1
PCB-1260	<0.50	*+	0.50	0.059	ug/L		05/04/23 21:20	05/07/23 18:48	1
PCB-1268	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	50		14 - 130				05/04/23 21:20	05/07/23 18:48	1
Tetrachloro-m-xylene	55		40 - 130				05/04/23 21:20	05/07/23 18:48	1

Method: SW846 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		04/19/23 14:52	04/26/23 06:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	77		60 - 154				04/19/23 14:52	04/26/23 06:13	1

Eurofins Savannah

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233552-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-773551/20-A

Matrix: Water

Analysis Batch: 774506

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 773551

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		04/15/23 21:15	04/20/23 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		32 - 113				04/15/23 21:15	04/20/23 18:40	1
2-Fluorophenol	36		26 - 109				04/15/23 21:15	04/20/23 18:40	1
Nitrobenzene-d5	54		32 - 118				04/15/23 21:15	04/20/23 18:40	1
Phenol-d5	34		27 - 110				04/15/23 21:15	04/20/23 18:40	1
Terphenyl-d14	77		10 - 126				04/15/23 21:15	04/20/23 18:40	1
2,4,6-Tribromophenol	62		39 - 124				04/15/23 21:15	04/20/23 18:40	1

Lab Sample ID: LCS 680-773551/21-A

Matrix: Water

Analysis Batch: 774506

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 773551

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitrophenol	200	245		ug/L		122	44 - 130
Surrogate	%Recovery	Qualifier	Limits				
2-Fluorobiphenyl	67		32 - 113				
2-Fluorophenol	49		26 - 109				
Nitrobenzene-d5	60		32 - 118				
Phenol-d5	49		27 - 110				
Terphenyl-d14	84		10 - 126				
2,4,6-Tribromophenol	86		39 - 124				

Lab Sample ID: LCSD 680-773551/22-A

Matrix: Water

Analysis Batch: 774506

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 773551

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol	200	237		ug/L		118	44 - 130	3	50
Surrogate	%Recovery	Qualifier	Limits						
2-Fluorobiphenyl	64		32 - 113						
2-Fluorophenol	47		26 - 109						
Nitrobenzene-d5	64		32 - 118						
Phenol-d5	45		27 - 110						
Terphenyl-d14	86		10 - 126						
2,4,6-Tribromophenol	83		39 - 124						

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233552-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-777035/20-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1221	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1232	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1242	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1248	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1254	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1260	<0.50		0.50	0.060	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1268	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	103		14 - 130				05/04/23 21:20	05/07/23 17:16	1
Tetrachloro-m-xylene	60		40 - 130				05/04/23 21:20	05/07/23 17:16	1

Lab Sample ID: LCS 680-777035/21-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	3.00	2.70		ug/L		90	44 - 130
PCB-1260	3.00	3.15		ug/L		105	35 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl	75		14 - 130				
Tetrachloro-m-xylene	53		40 - 130				

Lab Sample ID: LCSD 680-777035/22-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 777035

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	3.00	3.61		ug/L		120	44 - 130	29	30
PCB-1260	3.00	4.01	*+	ug/L		134	35 - 130	24	40
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
DCB Decachlorobiphenyl	114		14 - 130						
Tetrachloro-m-xylene	77		40 - 130						

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-609225/1-A

Matrix: Water

Analysis Batch: 610058

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 609225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/19/23 14:52	04/25/23 19:10	1

Eurofins Savannah

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233552-1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: MB 280-609225/1-A

Matrix: Water

Analysis Batch: 610058

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 609225

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	64	Qualifier	60 - 154	04/19/23 14:52	04/25/23 19:10	1

Lab Sample ID: LCS 280-609225/2-A

Matrix: Water

Analysis Batch: 610058

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 609225

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
Parathion	Added	Result	Qualifier	ug/L		89	Limits
	4.00	3.54					55 - 107
Surrogate	LCS	LCS	Limits				
Triphenylphosphate	78	Qualifier	60 - 154				

Lab Sample ID: LCSD 280-609225/3-A

Matrix: Water

Analysis Batch: 610058

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 609225

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD
Parathion	Added	Result	Qualifier	ug/L		91	Limits	RPD
	4.00	3.65					55 - 107	3
Surrogate	LCSD	LCSD	Limits					Limit
Triphenylphosphate	82	Qualifier	60 - 154					20

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233552-1

GC/MS Semi VOA

Prep Batch: 773551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233552-1	T-10	Total/NA	Water	3520C	
MB 680-773551/20-A	Method Blank	Total/NA	Water	3520C	
LCS 680-773551/21-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-773551/22-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 774506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233552-1	T-10	Total/NA	Water	8270D	773551
MB 680-773551/20-A	Method Blank	Total/NA	Water	8270D	773551
LCS 680-773551/21-A	Lab Control Sample	Total/NA	Water	8270D	773551
LCSD 680-773551/22-A	Lab Control Sample Dup	Total/NA	Water	8270D	773551

GC Semi VOA

Prep Batch: 609225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233552-1	T-10	Total/NA	Water	3510C	
MB 280-609225/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-609225/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-609225/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 610058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233552-1	T-10	Total/NA	Water	8141B	609225
MB 280-609225/1-A	Method Blank	Total/NA	Water	8141B	609225
LCS 280-609225/2-A	Lab Control Sample	Total/NA	Water	8141B	609225
LCSD 280-609225/3-A	Lab Control Sample Dup	Total/NA	Water	8141B	609225

Prep Batch: 777035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233552-1	T-10	Total/NA	Water	3520C	
MB 680-777035/20-A	Method Blank	Total/NA	Water	3520C	
LCS 680-777035/21-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-777035/22-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 777391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233552-1	T-10	Total/NA	Water	8081B/8082A	777035
MB 680-777035/20-A	Method Blank	Total/NA	Water	8081B/8082A	777035
LCS 680-777035/21-A	Lab Control Sample	Total/NA	Water	8081B/8082A	777035
LCSD 680-777035/22-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	777035

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233552-1

Client Sample ID: T-10

Lab Sample ID: 680-233552-1

Date Collected: 04/11/23 15:34

Matrix: Water

Date Received: 04/13/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1039.7 mL	1 mL	773551	04/15/23 21:15	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	774506	04/20/23 22:33	T1C	EET SAV
Instrument ID: CMSG										
Total/NA	Prep	3520C			1021.4 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777391	05/07/23 18:48	GEM	EET SAV
Instrument ID: CSGJ										
Total/NA	Prep	3510C			1024.7 mL	2 mL	609225	04/19/23 14:52	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610058	04/26/23 06:13	SP	EET DEN
Instrument ID: SGC_D2										

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233552-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-23

Laboratory: Eurofins 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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-23 *
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Oregon	NELAP	4025-011	01-10-24
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	12037	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Savannah

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233552-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	EET SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	EET DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Eurofins Savannah
55102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)				Sampler: Savoie, Noel Lab PM: Savoie, Noel Phone: Noel Savoie@et.eurofinsus.com E-Mail: Noel Savoie@et.eurofinsus.com		Carrier Tracking No(s): State of Origin: Alabama		COC No: 680-734545.1 Page: Page 1 of 1		
Company: TestAmerica Laboratories, Inc. Address: 4955 Yarrow Street, City: Arvada State, Zip: CO, 80002 Phone: 303-736-0100(Tel) 303-431-7171(Fax) Email: 				Accreditations Required (See note): State Program - Alabama		Job #: 680-233552-1 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 Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		COC No: 680-734545.1 Page: Page 1 of 1		
Analysis Requested				Due Date Requested: 4/25/2023 TAT Requested (days):		Total Number of Containers: 2		Special Instructions/Note:		
Sample Identification - Client ID (Lab ID) T-10 (680-233552-1)				Sample Date 4/11/23	Sample Time 15:34 Central	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion
				Preservation Code:		Water		☒	☒	☒
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our 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/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.										
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months						
Unconfirmed				Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2						
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:		
Relinquished by:				Date/Time:		Company:		Received by:		
Relinquished by:				Date/Time:		Company:		Received by:		
Relinquished by:				Date/Time:		Company:		Received by:		
Custody Seals Intact: A Yes A No				Cooler Temperature(s) °C and Other Remarks:						

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-233552-1

Login Number: 233552

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	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 $<6\text{mm}$ (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: 680-233552-1

Login Number: 233552

List Number: 2

Creator: Cannon, Charles D

List Source: Eurofins Denver

List Creation: 04/18/23 05:04 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	False	COC not relinquished.
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 $<6\text{mm}$ (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 Name: RCRA Groundwater Monitoring
 Reviewer: Jessica Alanis

Project Manager: Noel Savoie
 Project Number: 680-233553-1
 Validation Date: 08/15/2023

Laboratory: Eurofins Savannah and Denver Laboratories SDG #: 680-233553-1
 Analytical Method (type and no.): VOCs (8260B), SVOCS (8270D), PCBs (8081A/8082B), Pesticides (8141B)
 Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐
 Sample Names: MW-01B, MW-11A, MW-12A, Trip blank 20230411

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?	☒	☐	☐	<u>Trip blank 20230411</u>
g) Field parameters collected (note types)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
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: 4-Nitrophenol (Method 8270D) was identified to be a poor and/ or erratic performer, detections for this analyte are considered estimated; however, all results for this analyte were not detected; therefore, no qualification is required on this basis.

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?	☐	☒	☐	<u>Method 8141B in MW-01B, MW-11A, and MW-12A was extracted outside of the 7-day holding time (8 days after sample collection). A strict interpretation of the NFG would indicate the non-detect results of parathion and tetraethyldithiopyrophosphate be rejected; however, the results were qualified as estimated (UJ) based on professional judgement and the following lines of evidence: 1. These sample results are in line with expected results, as neither of these constituents have been detected at any of these wells in the previous ten years. 2. The hold time exceedance is minor. Method 8270 in MW-12A was extracted outside of the 7-day holding time (22 days after sample collection). A strict interpretation of the NFG would reject the non-detect result of 4-nitrophenol; however, the result was qualified as estimated (UJ) based on professional judgement using the following lines of evidence: 1. o,o,o-Triethylphosphorothioate, also analyzed by method 8270 in this sample, was detected at a similar concentration to recent results (e.g., April 2022 result = 21</u>

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

ug/L. April 2023 result = 23 ug/L). 2. This sample result is in line with expected results as 4-Nitrophenol has never been detected at MW-12A.

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?	☒	☐	☐	<u>Sample MW-01B was cloudy in appearance.</u>

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?	☐	☒	☐	PCB-1260 recovered high (134%) above the upper laboratory limit of 130%. All associated sample results are non-detect; therefore, no qualification is required.

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 LCS/LCSD RPDs <29%

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
MW-01B	Parathion	<1.0 ug/L	UJ	Extracted outside holding time
MW-01B	Tetraethyldithiopyrophosphate	<1.5 ug/L	UJ	Extracted outside holding time
MW-11A	Parathion	<1.0 ug/L	UJ	Extracted outside holding time
MW-12A	Parathion	<1.0 ug/L	UJ	Extracted outside holding time
MW-12A	4-Nitrophenol	<25 ug/L	UJ	Extracted outside holding time
MW-12A	O,O,O-TEPP	23 ug/L	J	Extracted outside holding time

Signature: Jessica Adams

Date: 8/15/23

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc.

Project Manager: Noel Savoie

Project Name: RCRA Groundwater Monitoring

Project Number: 680-233553-1

Reviewer: Jessica Alanis

Validation Date: 08/15/2023

Laboratory: Eurofins TestAmerica Savannah

SDG #: 680-233553-1

Analytical Method (type and no.): Metals (6010D), Mercury (7470A)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐

Sample Names: 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)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
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?	☐	☒	☐	<u>The analysis requested on the COC was inadvertently marked as dissolved Cobalt and Mercury; however, the correct analysis for total Cobalt and Mercury was performed by the laboratory.</u>
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)?	☐	☒	☐	_____
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?	☐	☐	☒	_____
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?	☐	☐	☒	_____

Comments/Notes:

No data requires qualification. _____

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Jessica Adams

Signature: _____

Date: 08/15/2023

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Generated 5/10/2023 5:22:21 PM

JOB DESCRIPTION

Anniston RCRA April 2023

JOB NUMBER

680-233553-1

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Noel Savoie, Project Manager I
Noel.Savoie@et.eurofinsus.com
(850)254-0107

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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

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

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Job ID: 680-233553-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-233553-1

Receipt

The samples were received on 4/13/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.1°C, 1.3°C and 4.3°C

Receipt Exceptions

The cooler containing the containers for MW-12A not received on 4/13/2023. The cooler arrived on 4/14/2023.

GC/MS VOA

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: 4-Nitrophenol. This analyte may have a %D >20% but must be <50%. If >50%, a CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample were analyzed outside of holding time due to a scheduling error: MW-12A (680-233553-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8141B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-609225 method.

Method 8141B: The following samples were analyzed outside of holding time due to a scheduling error: MW-01B (680-233553-1), MW-11A (680-233553-2) and MW-12A (680-233553-3).

Method 8141B: The following sample MW-01B (680-233553-1) was cloudy in appearance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides/PCBs

Method 8081B_8082A: The laboratory control sample duplicate (LCSD) for preparation batch 680-777035 and analytical batch 680-777391 recovered outside control limits for the following analyte: PCB-1260. This analyte was biased high in the LCSD and was not detected in the associated samples; 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.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-233553-1	MW-01B	Water	04/11/23 15:27	04/13/23 10:30
680-233553-2	MW-11A	Water	04/11/23 19:11	04/13/23 10:30
680-233553-3	MW-12A	Water	04/11/23 17:48	04/13/23 10:30
680-233553-4	Trip Blank 20230411	Water	04/11/23 15:35	04/13/23 10:30

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Client Sample ID: MW-01B

Lab Sample ID: 680-233553-1

No Detections.

Client Sample ID: MW-11A

Lab Sample ID: 680-233553-2

No Detections.

Client Sample ID: MW-12A

Lab Sample ID: 680-233553-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o,o',o"-Triethylphosphorothioate	23	H	10	0.99	ug/L	1		8270D	Total/NA

Client Sample ID: Trip Blank 20230411

Lab Sample ID: 680-233553-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Client Sample ID: MW-01B

Lab Sample ID: 680-233553-1

Date Collected: 04/11/23 15:27

Matrix: Water

Date Received: 04/13/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/23/23 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130					04/23/23 17:38	1
1,2-Dichloroethane-d4 (Surr)	80		60 - 124					04/23/23 17:38	1
Dibromofluoromethane (Surr)	90		70 - 130					04/23/23 17:38	1
4-Bromofluorobenzene (Surr)	107		70 - 130					04/23/23 17:38	1

Method: SW846 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		04/15/23 21:15	04/20/23 22:56	1
o,o',o''-Triethylphosphorothioate	<10		10	0.96	ug/L		04/15/23 21:15	04/20/23 22:56	1
1,2-Dichlorobenzene	<10		10	0.51	ug/L		04/15/23 21:15	04/20/23 22:56	1
1,4-Dichlorobenzene	<10		10	0.52	ug/L		04/15/23 21:15	04/20/23 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	36		26 - 109				04/15/23 21:15	04/20/23 22:56	1
Nitrobenzene-d5	51		32 - 118				04/15/23 21:15	04/20/23 22:56	1
Phenol-d5	37		27 - 110				04/15/23 21:15	04/20/23 22:56	1
Terphenyl-d14	65		10 - 126				04/15/23 21:15	04/20/23 22:56	1
2,4,6-Tribromophenol	70		39 - 124				04/15/23 21:15	04/20/23 22:56	1
2-Fluorobiphenyl (Surr)	57		32 - 113				04/15/23 21:15	04/20/23 22:56	1

Method: SW846 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		05/04/23 21:20	05/07/23 19:06	1
PCB-1221	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 19:06	1
PCB-1232	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 19:06	1
PCB-1242	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 19:06	1
PCB-1248	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 19:06	1
PCB-1254	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 19:06	1
PCB-1260	<0.50	*+	0.50	0.059	ug/L		05/04/23 21:20	05/07/23 19:06	1
PCB-1268	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		14 - 130				05/04/23 21:20	05/07/23 19:06	1
Tetrachloro-m-xylene	57		40 - 130				05/04/23 21:20	05/07/23 19:06	1

Method: SW846 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		04/19/23 14:52	04/26/23 06:52	1
Tetraethylthiopyrophosphate	<1.5	H	1.5	0.16	ug/L		04/19/23 14:52	04/26/23 06:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	75		60 - 154				04/19/23 14:52	04/26/23 06:52	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/15/23 08:23	04/17/23 20:01	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Client Sample ID: MW-01B

Lab Sample ID: 680-233553-1

Date Collected: 04/11/23 15:27

Matrix: Water

Date Received: 04/13/23 10:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/18/23 06:47	04/18/23 14:11	1

Client Sample ID: MW-11A

Lab Sample ID: 680-233553-2

Date Collected: 04/11/23 19:11

Matrix: Water

Date Received: 04/13/23 10:30

Method: SW846 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		04/15/23 21:15	04/20/23 23:19	1
o,o',o''-Triethylphosphorothioate	<10		10	0.95	ug/L		04/15/23 21:15	04/20/23 23:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		32 - 113	04/15/23 21:15	04/20/23 23:19	1
2-Fluorophenol	38		26 - 109	04/15/23 21:15	04/20/23 23:19	1
Nitrobenzene-d5	57		32 - 118	04/15/23 21:15	04/20/23 23:19	1
Phenol-d5	39		27 - 110	04/15/23 21:15	04/20/23 23:19	1
Terphenyl-d14	72		10 - 126	04/15/23 21:15	04/20/23 23:19	1
2,4,6-Tribromophenol	67		39 - 124	04/15/23 21:15	04/20/23 23:19	1

Method: SW846 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		05/04/23 21:20	05/07/23 19:24	1
PCB-1221	<0.50		0.50	0.087	ug/L		05/04/23 21:20	05/07/23 19:24	1
PCB-1232	<0.50		0.50	0.087	ug/L		05/04/23 21:20	05/07/23 19:24	1
PCB-1242	<0.50		0.50	0.087	ug/L		05/04/23 21:20	05/07/23 19:24	1
PCB-1248	<0.50		0.50	0.087	ug/L		05/04/23 21:20	05/07/23 19:24	1
PCB-1254	<0.50		0.50	0.087	ug/L		05/04/23 21:20	05/07/23 19:24	1
PCB-1260	<0.50	+	0.50	0.058	ug/L		05/04/23 21:20	05/07/23 19:24	1
PCB-1268	<0.50		0.50	0.087	ug/L		05/04/23 21:20	05/07/23 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	58		14 - 130	05/04/23 21:20	05/07/23 19:24	1
Tetrachloro-m-xylene	55		40 - 130	05/04/23 21:20	05/07/23 19:24	1

Method: SW846 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		04/19/23 14:52	04/26/23 08:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	71		60 - 154	04/19/23 14:52	04/26/23 08:10	1

Client Sample ID: MW-12A

Lab Sample ID: 680-233553-3

Date Collected: 04/11/23 17:48

Matrix: Water

Date Received: 04/13/23 10:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25	H	25	1.9	ug/L		05/03/23 21:30	05/08/23 20:47	1
o,o',o''-Triethylphosphorothioate	23	H	10	0.99	ug/L		05/03/23 21:30	05/08/23 20:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		32 - 113	05/03/23 21:30	05/08/23 20:47	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Client Sample ID: MW-12A

Lab Sample ID: 680-233553-3

Date Collected: 04/11/23 17:48

Matrix: Water

Date Received: 04/13/23 10:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		26 - 109	05/03/23 21:30	05/08/23 20:47	1
Nitrobenzene-d5	65		32 - 118	05/03/23 21:30	05/08/23 20:47	1
Phenol-d5	48		27 - 110	05/03/23 21:30	05/08/23 20:47	1
Terphenyl-d14	65		10 - 126	05/03/23 21:30	05/08/23 20:47	1
2,4,6-Tribromophenol	71		39 - 124	05/03/23 21:30	05/08/23 20:47	1

Method: SW846 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		05/04/23 21:20	05/07/23 19:43	1
PCB-1221	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 19:43	1
PCB-1232	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 19:43	1
PCB-1242	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 19:43	1
PCB-1248	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 19:43	1
PCB-1254	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 19:43	1
PCB-1260	<0.50	+	0.50	0.060	ug/L		05/04/23 21:20	05/07/23 19:43	1
PCB-1268	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	80		14 - 130	05/04/23 21:20	05/07/23 19:43	1
Tetrachloro-m-xylene	55		40 - 130	05/04/23 21:20	05/07/23 19:43	1

Method: SW846 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	0.15	ug/L		04/19/23 14:52	04/26/23 07:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	65		60 - 154	04/19/23 14:52	04/26/23 07:31	1

Client Sample ID: Trip Blank 20230411

Lab Sample ID: 680-233553-4

Date Collected: 04/11/23 15:35

Matrix: Water

Date Received: 04/13/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/23/23 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/23/23 16:05	1
1,2-Dichloroethane-d4 (Surr)	80		60 - 124		04/23/23 16:05	1
Dibromofluoromethane (Surr)	92		70 - 130		04/23/23 16:05	1
4-Bromofluorobenzene (Surr)	105		70 - 130		04/23/23 16:05	1

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (70-130)	DCA (60-124)	DBFM (70-130)	BFB (70-130)
680-233553-1	MW-01B	96	80	90	107
680-233553-4	Trip Blank 20230411	96	80	92	105
LCS 680-774812/5	Lab Control Sample	100	88	96	106
LCSD 680-774812/6	Lab Control Sample Dup	100	89	94	105
MB 680-774812/9	Method Blank	96	80	90	108

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)						
		2FP (26-109)	NBZ (32-118)	PHL (27-110)	TPHL (10-126)	TBP (39-124)	FBP (32-113)	FBP (32-113)
680-233553-1	MW-01B	36	51	37	65	70	57	57
680-233553-2	MW-11A	38	57	39	72	67	62	62
680-233553-3	MW-12A	48	65	48	65	71	68	68
LCS 680-773551/21-A	Lab Control Sample	49	60	49	84	86	67	67
LCS 680-773551/23-A	Lab Control Sample	47	71	49	78	90	72	72
LCS 680-776825/21-A	Lab Control Sample	41	55	40	58	61	59	59
LCS 680-776825/23-A	Lab Control Sample	44	68	47	73	72	67	67
LCSD 680-773551/22-A	Lab Control Sample Dup	47	64	45	86	83	64	64
LCSD 680-773551/24-A	Lab Control Sample Dup	49	71	49	78	87	73	73
LCSD 680-776825/22-A	Lab Control Sample Dup	48	66	47	75	70	68	68
LCSD 680-776825/24-A	Lab Control Sample Dup	48	72	39	74	80	67	67
MB 680-773551/20-A	Method Blank	36	54	34	77	62	61	61
MB 680-776825/20-A	Method Blank	47	66	44	74	68	61	61

Surrogate Legend

2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl (Surr)

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2 (14-130)	TCX2 (40-130)
680-233553-1	MW-01B	67	57
680-233553-2	MW-11A	58	55
680-233553-3	MW-12A	80	55
MB 680-777035/20-A	Method Blank	103	60

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Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

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)
LCS 680-777035/21-A	Lab Control Sample	75	53
LCSD 680-777035/22-A	Lab Control Sample Dup	114	77

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)

Lab Sample ID	Client Sample ID	TPP1 (60-154)
680-233553-1	MW-01B	75
680-233553-2	MW-11A	71
680-233553-3	MW-12A	65
LCS 280-609225/2-A	Lab Control Sample	78
LCSD 280-609225/3-A	Lab Control Sample Dup	82
MB 280-609225/1-A	Method Blank	64

Surrogate Legend

TPP = Triphenylphosphate

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-774812/9

Matrix: Water

Analysis Batch: 774812

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	0.15	ug/L			04/23/23 15:40	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130					04/23/23 15:40	1
1,2-Dichloroethane-d4 (Surr)	80		60 - 124					04/23/23 15:40	1
Dibromofluoromethane (Surr)	90		70 - 130					04/23/23 15:40	1
4-Bromofluorobenzene (Surr)	108		70 - 130					04/23/23 15:40	1

Lab Sample ID: LCS 680-774812/5

Matrix: Water

Analysis Batch: 774812

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	52.5		ug/L		105	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	100		70 - 130				
1,2-Dichloroethane-d4 (Surr)	88		60 - 124				
Dibromofluoromethane (Surr)	96		70 - 130				
4-Bromofluorobenzene (Surr)	106		70 - 130				

Lab Sample ID: LCSD 680-774812/6

Matrix: Water

Analysis Batch: 774812

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	52.1		ug/L		104	70 - 130	1	30
Surrogate	%Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	100		70 - 130						
1,2-Dichloroethane-d4 (Surr)	89		60 - 124						
Dibromofluoromethane (Surr)	94		70 - 130						
4-Bromofluorobenzene (Surr)	105		70 - 130						

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-773551/20-A

Matrix: Water

Analysis Batch: 774506

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 773551

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		04/15/23 21:15	04/20/23 18:40	1
o,o',o"-Triethylphosphorothioate	<10		10	1.0	ug/L		04/15/23 21:15	04/20/23 18:40	1
1,2-Dichlorobenzene	<10		10	0.53	ug/L		04/15/23 21:15	04/20/23 18:40	1
1,4-Dichlorobenzene	<10		10	0.54	ug/L		04/15/23 21:15	04/20/23 18:40	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-773551/20-A

Matrix: Water

Analysis Batch: 774506

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 773551

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	36		26 - 109	04/15/23 21:15	04/20/23 18:40	1
Nitrobenzene-d5	54		32 - 118	04/15/23 21:15	04/20/23 18:40	1
Phenol-d5	34		27 - 110	04/15/23 21:15	04/20/23 18:40	1
Terphenyl-d14	77		10 - 126	04/15/23 21:15	04/20/23 18:40	1
2,4,6-Tribromophenol	62		39 - 124	04/15/23 21:15	04/20/23 18:40	1
2-Fluorobiphenyl	61		32 - 113	04/15/23 21:15	04/20/23 18:40	1
2-Fluorobiphenyl (Surr)	61		32 - 113	04/15/23 21:15	04/20/23 18:40	1

Lab Sample ID: LCS 680-773551/21-A

Matrix: Water

Analysis Batch: 774506

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 773551

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitrophenol	200	245		ug/L		122	44 - 130
1,2-Dichlorobenzene	100	59.2		ug/L		59	31 - 130
1,4-Dichlorobenzene	100	59.4		ug/L		59	31 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	49		26 - 109
Nitrobenzene-d5	60		32 - 118
Phenol-d5	49		27 - 110
Terphenyl-d14	84		10 - 126
2,4,6-Tribromophenol	86		39 - 124
2-Fluorobiphenyl	67		32 - 113
2-Fluorobiphenyl (Surr)	67		32 - 113

Lab Sample ID: LCS 680-773551/23-A

Matrix: Water

Analysis Batch: 774506

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 773551

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o"-Triethylphosphorothioate	100	83.8		ug/L		84	23 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	47		26 - 109
Nitrobenzene-d5	71		32 - 118
Phenol-d5	49		27 - 110
Terphenyl-d14	78		10 - 126
2,4,6-Tribromophenol	90		39 - 124
2-Fluorobiphenyl	72		32 - 113
2-Fluorobiphenyl (Surr)	72		32 - 113

Lab Sample ID: LCSD 680-773551/22-A

Matrix: Water

Analysis Batch: 774506

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 773551

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol	200	237		ug/L		118	44 - 130	3	50

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-773551/22-A

Matrix: Water

Analysis Batch: 774506

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 773551

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene	100	60.5		ug/L		61	31 - 130	2	50
1,4-Dichlorobenzene	100	61.2		ug/L		61	31 - 130	3	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorophenol	47		26 - 109
Nitrobenzene-d5	64		32 - 118
Phenol-d5	45		27 - 110
Terphenyl-d14	86		10 - 126
2,4,6-Tribromophenol	83		39 - 124
2-Fluorobiphenyl	64		32 - 113
2-Fluorobiphenyl (Surr)	64		32 - 113

Lab Sample ID: LCSD 680-773551/24-A

Matrix: Water

Analysis Batch: 774506

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 773551

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o,o',o''-Triethylphosphorothioate	100	95.9		ug/L		96	23 - 130	13	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorophenol	49		26 - 109
Nitrobenzene-d5	71		32 - 118
Phenol-d5	49		27 - 110
Terphenyl-d14	78		10 - 126
2,4,6-Tribromophenol	87		39 - 124
2-Fluorobiphenyl	73		32 - 113
2-Fluorobiphenyl (Surr)	73		32 - 113

Lab Sample ID: MB 680-776825/20-A

Matrix: Water

Analysis Batch: 777592

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 776825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		05/03/23 21:30	05/08/23 18:47	1
o,o',o''-Triethylphosphorothioate	<10		10	1.0	ug/L		05/03/23 21:30	05/08/23 18:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		26 - 109	05/03/23 21:30	05/08/23 18:47	1
Nitrobenzene-d5	66		32 - 118	05/03/23 21:30	05/08/23 18:47	1
Phenol-d5	44		27 - 110	05/03/23 21:30	05/08/23 18:47	1
Terphenyl-d14	74		10 - 126	05/03/23 21:30	05/08/23 18:47	1
2,4,6-Tribromophenol	68		39 - 124	05/03/23 21:30	05/08/23 18:47	1
2-Fluorobiphenyl	61		32 - 113	05/03/23 21:30	05/08/23 18:47	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-776825/21-A

Matrix: Water

Analysis Batch: 777592

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 776825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitrophenol	200	173		ug/L		86	44 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2-Fluorophenol	41		26 - 109				
Nitrobenzene-d5	55		32 - 118				
Phenol-d5	40		27 - 110				
Terphenyl-d14	58		10 - 126				
2,4,6-Tribromophenol	61		39 - 124				
2-Fluorobiphenyl	59		32 - 113				

Lab Sample ID: LCS 680-776825/23-A

Matrix: Water

Analysis Batch: 777592

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 776825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o"-Triethylphosphorothioate	100	75.7		ug/L		76	23 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2-Fluorophenol	44		26 - 109				
Nitrobenzene-d5	68		32 - 118				
Phenol-d5	47		27 - 110				
Terphenyl-d14	73		10 - 126				
2,4,6-Tribromophenol	72		39 - 124				
2-Fluorobiphenyl	67		32 - 113				

Lab Sample ID: LCSD 680-776825/22-A

Matrix: Water

Analysis Batch: 777592

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 776825

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol	200	196		ug/L		98	44 - 130	13	50
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2-Fluorophenol	48		26 - 109						
Nitrobenzene-d5	66		32 - 118						
Phenol-d5	47		27 - 110						
Terphenyl-d14	75		10 - 126						
2,4,6-Tribromophenol	70		39 - 124						
2-Fluorobiphenyl	68		32 - 113						

Lab Sample ID: LCSD 680-776825/24-A

Matrix: Water

Analysis Batch: 777790

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 776825

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o,o',o"-Triethylphosphorothioate	100	80.4		ug/L		80	23 - 130	6	50

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-776825/24-A

Matrix: Water

Analysis Batch: 777790

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 776825

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorophenol	48		26 - 109
Nitrobenzene-d5	72		32 - 118
Phenol-d5	39		27 - 110
Terphenyl-d14	74		10 - 126
2,4,6-Tribromophenol	80		39 - 124
2-Fluorobiphenyl	67		32 - 113

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas

Chromatography

Lab Sample ID: MB 680-777035/20-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777035

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1	
PCB-1221	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1	
PCB-1232	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1	
PCB-1242	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1	
PCB-1248	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1	
PCB-1254	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1	
PCB-1260	<0.50		0.50	0.060	ug/L		05/04/23 21:20	05/07/23 17:16	1	
PCB-1268	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
DCB Decachlorobiphenyl	103		14 - 130	05/04/23 21:20	05/07/23 17:16	1				
Tetrachloro-m-xylene	60		40 - 130	05/04/23 21:20	05/07/23 17:16	1				

Lab Sample ID: LCS 680-777035/21-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777035

	Spike	LCS	LCS							
Analyte	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits		
PCB-1016	3.00	2.70		ug/L		90		44 - 130		
PCB-1260	3.00	3.15		ug/L		105		35 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	75		14 - 130
Tetrachloro-m-xylene	53		40 - 130

Lab Sample ID: LCSD 680-777035/22-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 777035

	Spike	LCSD	LCSD							
Analyte	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	RPD	Limit
PCB-1016	3.00	3.61		ug/L		120		44 - 130	29	30
PCB-1260	3.00	4.01	*+	ug/L		134		35 - 130	24	40

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 680-777035/22-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 777035

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	114		14 - 130
Tetrachloro-m-xylene	77		40 - 130

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-609225/1-A

Matrix: Water

Analysis Batch: 610058

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 609225

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Parathion	<1.0		1.0	0.14	ug/L		04/19/23 14:52	04/25/23 19:10	1	
Tetraethyldithiopyrophosphate	<1.5		1.5	0.17	ug/L		04/19/23 14:52	04/25/23 19:10	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
Triphenylphosphate	64		60 - 154	04/19/23 14:52	04/25/23 19:10	1				

Lab Sample ID: LCS 280-609225/2-A

Matrix: Water

Analysis Batch: 610058

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 609225

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Parathion			4.00	3.54		ug/L		89	55 - 107	
Tetraethyldithiopyrophosphate			4.00	3.39		ug/L		85	53 - 110	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Triphenylphosphate	78		60 - 154

Lab Sample ID: LCSD 280-609225/3-A

Matrix: Water

Analysis Batch: 610058

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 609225

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Parathion			4.00	3.65		ug/L		91	55 - 107	3	20	
Tetraethyldithiopyrophosphate			4.00	3.57		ug/L		89	53 - 110	5	27	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Triphenylphosphate	82		60 - 154

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-773472/1-A

Matrix: Water

Analysis Batch: 773899

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 773472

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Cobalt	<0.010		0.010	0.0014	mg/L		04/15/23 08:23	04/17/23 19:31	1	

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Method: 6010D - Metals (ICP)

Lab Sample ID: LCS 680-773472/2-A
Matrix: Water
Analysis Batch: 773899

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 773472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.0500	0.0558		mg/L		112	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-773851/12-A
Matrix: Water
Analysis Batch: 774083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 773851

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/18/23 06:47	04/18/23 13:43	1

Lab Sample ID: LCS 680-773851/13-A
Matrix: Water
Analysis Batch: 774083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 773851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00259		mg/L		104	80 - 120

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

GC/MS VOA

Analysis Batch: 774812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233553-1	MW-01B	Total/NA	Water	8260D	
680-233553-4	Trip Blank 20230411	Total/NA	Water	8260D	
MB 680-774812/9	Method Blank	Total/NA	Water	8260D	
LCS 680-774812/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-774812/6	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 773551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233553-1	MW-01B	Total/NA	Water	3520C	
680-233553-2	MW-11A	Total/NA	Water	3520C	
MB 680-773551/20-A	Method Blank	Total/NA	Water	3520C	
LCS 680-773551/21-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-773551/23-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-773551/22-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 680-773551/24-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 774506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233553-1	MW-01B	Total/NA	Water	8270D	773551
680-233553-2	MW-11A	Total/NA	Water	8270D	773551
MB 680-773551/20-A	Method Blank	Total/NA	Water	8270D	773551
LCS 680-773551/21-A	Lab Control Sample	Total/NA	Water	8270D	773551
LCS 680-773551/23-A	Lab Control Sample	Total/NA	Water	8270D	773551
LCSD 680-773551/22-A	Lab Control Sample Dup	Total/NA	Water	8270D	773551
LCSD 680-773551/24-A	Lab Control Sample Dup	Total/NA	Water	8270D	773551

Prep Batch: 776825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233553-3	MW-12A	Total/NA	Water	3520C	
MB 680-776825/20-A	Method Blank	Total/NA	Water	3520C	
LCS 680-776825/21-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-776825/23-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-776825/22-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 680-776825/24-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 777592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233553-3	MW-12A	Total/NA	Water	8270D	776825
MB 680-776825/20-A	Method Blank	Total/NA	Water	8270D	776825
LCS 680-776825/21-A	Lab Control Sample	Total/NA	Water	8270D	776825
LCS 680-776825/23-A	Lab Control Sample	Total/NA	Water	8270D	776825
LCSD 680-776825/22-A	Lab Control Sample Dup	Total/NA	Water	8270D	776825

Analysis Batch: 777790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-776825/24-A	Lab Control Sample Dup	Total/NA	Water	8270D	776825

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

GC Semi VOA

Prep Batch: 609225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233553-1	MW-01B	Total/NA	Water	3510C	
680-233553-2	MW-11A	Total/NA	Water	3510C	
680-233553-3	MW-12A	Total/NA	Water	3510C	
MB 280-609225/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-609225/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-609225/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 610058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233553-1	MW-01B	Total/NA	Water	8141B	609225
680-233553-2	MW-11A	Total/NA	Water	8141B	609225
680-233553-3	MW-12A	Total/NA	Water	8141B	609225
MB 280-609225/1-A	Method Blank	Total/NA	Water	8141B	609225
LCS 280-609225/2-A	Lab Control Sample	Total/NA	Water	8141B	609225
LCSD 280-609225/3-A	Lab Control Sample Dup	Total/NA	Water	8141B	609225

Prep Batch: 777035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233553-1	MW-01B	Total/NA	Water	3520C	
680-233553-2	MW-11A	Total/NA	Water	3520C	
680-233553-3	MW-12A	Total/NA	Water	3520C	
MB 680-777035/20-A	Method Blank	Total/NA	Water	3520C	
LCS 680-777035/21-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-777035/22-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 777391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233553-1	MW-01B	Total/NA	Water	8081B/8082A	777035
680-233553-2	MW-11A	Total/NA	Water	8081B/8082A	777035
680-233553-3	MW-12A	Total/NA	Water	8081B/8082A	777035
MB 680-777035/20-A	Method Blank	Total/NA	Water	8081B/8082A	777035
LCS 680-777035/21-A	Lab Control Sample	Total/NA	Water	8081B/8082A	777035
LCSD 680-777035/22-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	777035

Metals

Prep Batch: 773472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233553-1	MW-01B	Total Recoverable	Water	3005A	
MB 680-773472/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-773472/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 773851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233553-1	MW-01B	Total/NA	Water	7470A	
MB 680-773851/12-A	Method Blank	Total/NA	Water	7470A	
LCS 680-773851/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 773899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233553-1	MW-01B	Total Recoverable	Water	6010D	773472

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Metals (Continued)

Analysis Batch: 773899 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-773472/1-A	Method Blank	Total Recoverable	Water	6010D	773472
LCS 680-773472/2-A	Lab Control Sample	Total Recoverable	Water	6010D	773472

Analysis Batch: 774083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233553-1	MW-01B	Total/NA	Water	7470A	773851
MB 680-773851/12-A	Method Blank	Total/NA	Water	7470A	773851
LCS 680-773851/13-A	Lab Control Sample	Total/NA	Water	7470A	773851

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Client Sample ID: MW-01B

Lab Sample ID: 680-233553-1

Date Collected: 04/11/23 15:27

Matrix: Water

Date Received: 04/13/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	774812	04/23/23 17:38	P1C	EET SAV
Instrument ID: CMSAA										
Total/NA	Prep	3520C			1038.7 mL	1 mL	773551	04/15/23 21:15	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	774506	04/20/23 22:56	T1C	EET SAV
Instrument ID: CMSG										
Total/NA	Prep	3520C			1009.6 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777391	05/07/23 19:06	GEM	EET SAV
Instrument ID: CSGJ										
Total/NA	Prep	3510C			1029.9 mL	2 mL	609225	04/19/23 14:52	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610058	04/26/23 06:52	SP	EET DEN
Instrument ID: SGC_D2										
Total Recoverable	Prep	3005A			25 mL	25 mL	773472	04/15/23 08:23	RR	EET SAV
Total Recoverable	Analysis	6010D		1			773899	04/17/23 20:01	BJB	EET SAV
Instrument ID: ICPH										
Total/NA	Prep	7470A			50 mL	50 mL	773851	04/18/23 06:47	JKL	EET SAV
Total/NA	Analysis	7470A		1			774083	04/18/23 14:11	JKL	EET SAV
Instrument ID: QuickTrace2										

Client Sample ID: MW-11A

Lab Sample ID: 680-233553-2

Date Collected: 04/11/23 19:11

Matrix: Water

Date Received: 04/13/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1053.6 mL	1 mL	773551	04/15/23 21:15	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	774506	04/20/23 23:19	T1C	EET SAV
Instrument ID: CMSG										
Total/NA	Prep	3520C			1037.8 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777391	05/07/23 19:24	GEM	EET SAV
Instrument ID: CSGJ										
Total/NA	Prep	3510C			1029.3 mL	2 mL	609225	04/19/23 14:52	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610058	04/26/23 08:10	SP	EET DEN
Instrument ID: SGC_D2										

Client Sample ID: MW-12A

Lab Sample ID: 680-233553-3

Date Collected: 04/11/23 17:48

Matrix: Water

Date Received: 04/13/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1006.8 mL	1 mL	776825	05/03/23 21:30	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	777592	05/08/23 20:47	T1C	EET SAV
Instrument ID: CMSG										
Total/NA	Prep	3520C			1006.3 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777391	05/07/23 19:43	GEM	EET SAV
Instrument ID: CSGJ										

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Lab Chronicle

Client: GSI Environmental, Inc

Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Client Sample ID: MW-12A

Date Collected: 04/11/23 17:48

Date Received: 04/13/23 10:30

Lab Sample ID: 680-233553-3

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	3510C			993.1 mL	2 mL	609225	04/19/23 14:52	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610058	04/26/23 07:31	SP	EET DEN
Instrument ID: SGC_D2										

Client Sample ID: Trip Blank 20230411

Date Collected: 04/11/23 15:35

Date Received: 04/13/23 10:30

Lab Sample ID: 680-233553-4

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	8260D		1	5 mL	5 mL	774812	04/23/23 16:05	P1C	EET SAV
Instrument ID: CMSAA										

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-23

Laboratory: Eurofins 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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	05-02-23
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-23 *
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Oregon	NELAP	4025-011	01-10-24
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	12037	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Savannah

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2023

Job ID: 680-233553-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	EET SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	EET DEN
6010D	Metals (ICP)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody Record



Environment Testing

Client Information		Sampler	Lab P/N:	Carrier Tracking No(s):	COC No:															
Client Contact: Ben Smith		EGK, JA, JSC	Savoie, Noel		680-145262-52668.1															
Company: GSI Environmental, Inc		Phone: 713-522-6300	E-Mail: Noel.Savoie@et.eurofins.com	State of Origin:	Page: 1 of 1															
Address: 2211 Norfolk, Suite 1000		Job #: 6495																		
City: Houston		Analysis Requested																		
State, Zip: TX, 77098-4044		Due Date Requested:																		
Phone: 713-522-6300(Tel)		TAT Requested (days): Standard																		
Email: WBSmith@gssi-net.com		Compliance Project: Δ Yes Δ No																		
Project Name: Anniston RCRA March 2023		PO #: 55048760																		
Site: Anniston, AL Solvita, Inc		WO #:																		
		Project #:																		
		SSOW#:																		
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (If water, Sealed, On-water, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - Chlorobenzene	8270D - 1,2-DCB, 1,4-DCB, 1,4-DCE, 1,2,4-TCDF	841B - Parathion/Sulfotep	8010D - 7470 - Cobalt, Mercury	8081B - 8082A - PCB	841B - Parathion	8081B - 8082A - PCB	6010D - 7470 - Cobalt, Manganese, Mercury	6010C - 7470/Disolved Cobalt, Mercury	8270D - 1,2-DCB, 1,4-DCB, 1,4-DCE, 1,2,4-TCDF	8270D - 1,2-DCB, 1,4-DCB, 1,4-DCE, 1,2,4-TCDF	Total Number of Containers	Special Instructions/Note:	
MW-01B	4/11/23	1527	G	W	X	X														
MW-11A	↓	1911	↓	↓	X	X														
MW-12A	↓	1748	↓	↓	X	X														
Thp Blank 20230411	4/11/23	1535			X															
																				
680-233553 Chain of Custody																				
Possible Hazard Identification																				
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological																				
Deliverable Requested: ☐ I, ☐ II, ☐ IV, Other (specify)																				
Empty Kit Relinquished by:																				
Relinquished by: Ellen Kainer																				
Date/Time: 4/11/23 0810																				
Company: GSI																				
Relinquished by:																				
Date/Time:																				
Company:																				
Relinquished by:																				
Date/Time:																				
Company:																				
Custody Seals Intact: Δ Yes Δ No																				
Custody Seal No.																				
Cooler Temperature(s) °C and Other Remarks: 3.7/4.3 0.7/1.3																				
Ver 06/08/2021																				

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-233553-1

Login Number: 233553

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (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: 680-233553-1

Login Number: 233553

List Number: 2

Creator: Cannon, Charles D

List Source: Eurofins Denver

List Creation: 04/18/23 05:03 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.	False	COC not relinquished.
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").	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 Name: RCRA Groundwater Monitoring
 Reviewer: Jessica Alanis

Project Manager: Noel Savoie
 Project Number: 680-233598-1
 Validation Date: 08/16/2023

Laboratory: Eurofins Savannah and Denver Laboratories

SDG #: 680-233598-1

Analytical Method (type and no.): VOCs (8260B), SVOCS (8270D), PCBs (8081A/8082B), Pesticides (8141B)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐

Sample Names: MW-13A-R, MW-15, MW-15F, MW-16, MW-16F, OW-06A, Trip blank 20230412

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?	☒	☐	☐	<u>Trip blank 20230412</u>
g) Field parameters collected (note types)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
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: Several MS/MSD deficiencies noted in the laboratory narrative; however, project specific MS/MSD samples were not submitted with this lab report; therefore, no results are qualified on this basis. The RPD between the primary and confirmation column exceeded control limits in a surrogate of Method 8081B/8082A for sample MW-16F; however, all recoveries were within acceptance limits, so no qualification is required.

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?	☒	☐	☐	<u>Sample MW-16 was yellow in color.</u>

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?	☐	☒	☐	<u>PCB-1260 recovered high (134%) above the upper laboratory limit of 130%. All associated sample results are non-detect; therefore, no qualification is required.</u>

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)?	☒	☐	☐	<u>Multiple LCSDs.</u>
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	<u>All LCS/ LCSDs RPD < 29%</u>

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?	☐	☐	☒	

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☒	☐	<u>Phenol-d5 recovered low (18%) below the lower laboratory limit of 27% for sample MW-15, method 8270D; however, phenol-d5 is not associated with the target analytes; therefore, no qualification is required. DCB recovered low (13%) below the lower laboratory limit of 14% for sample MW-15F, method 8081B/ 8082A. Since DCB recovery was greater than the expanded lower acceptance limit of 10% (NFG, 2020), all associated analytes are qualified as estimated (UJ). TCX recovered low (35%) below the lower laboratory limit of 40% for sample MW-16, method 8081B/8082A. However, this surrogate is not associated with the target analytes; therefore, no qualification is required. Phenol-d5 recovered low (0.9%) below the lower laboratory limit of 27% for sample MW-13A-R, method 8270D. However, this surrogate is not associated with the target analytes (4-Nitrophenol and O,O,O-TEPP); therefore, no qualification is required.</u>
b) Were surrogate recoveries not calculated due to dilutions?	☐	☐	☒	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
MW-15F	PCB-1016	<0.5 ug/L	UJ	Low DCB surrogate recovery
MW-15F	PCB-1221	<0.5 ug/L	UJ	Low DCB surrogate recovery
MW-15F	PCB-1232	<0.5 ug/L	UJ	Low DCB surrogate recovery
MW-15F	PCB-1242	<0.5 ug/L	UJ	Low DCB surrogate recovery
MW-15F	PCB-1248	<0.5 ug/L	UJ	Low DCB surrogate recovery
MW-15F	PCB-1254	<0.5 ug/L	UJ	Low DCB surrogate recovery
MW-15F	PCB-1260	<0.5 ug/L	UJ	Low DCB surrogate recovery
MW-15F	PCB-1268	<0.5 ug/L	UJ	Low DCB surrogate recovery

Signature: _____



Date: 8/16/23

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc.

Project Manager: Noel Savoie

Project Name: RCRA Groundwater Monitoring

Project Number: 680-233598-1

Reviewer: Jessica Alanis

Validation Date: 08/16/2023

Laboratory: Eurofins TestAmerica Savannah

SDG #: 680-233598-1

Analytical Method (type and no.): Metals (6010D), Mercury (7470A)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐

Sample Names: MW-15, MW-15F, MW-16, MW-16F, OW-06A

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)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
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)?	☐	☒	☐	
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?	☐	☐	☒	
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?	☐	☐	☒	

Comments/Notes:

No data requires qualification.

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Jessica Adams

Signature:

Date: 08/16/2023

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

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JOB DESCRIPTION

Anniston RCRA 2023

JOB NUMBER

680-233598-1

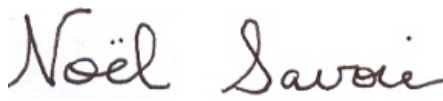
Eurofins Savannah

Job Notes

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Authorization



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Authorized for release by
Noel Savoie, Project Manager I
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(850)254-0107

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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

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

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Job ID: 680-233598-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-233598-1

Receipt

The samples were received on 4/14/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.0°C and 5.2°C

GC/MS VOA

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batches 680-774831 and 680-775160.

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: (680-233554-A-2-B MS). The parent sample's surrogate recovery was within limits. The MS sample has been qualified and reported.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-774312 and analytical batch 680-777012 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270D: The following sample recovered outside the control limits for this surrogate: Phenol-d5. The analyte required for this sample is not associated with this surrogate, therefore the data has been qualified and reported. MW-13A-R (680-233598-1)

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base 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: MW-15 (680-233598-3). 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.

GC Semi VOA

Method 8141B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-609225 method: 8141.

Method 8141B: The following sample MW-16 (680-233598-5) was yellow in color.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides/PCBs

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: MW-15F (680-233598-4) and MW-16 (680-233598-5). These results have been reported and qualified.

Method 8081B_8082A: The laboratory control sample duplicate (LCSD) for preparation batch 680-777035 and analytical batch 680-777391 recovered outside control limits for the following analyte: PCB-1260. This analyte was biased high in the LCSD and was not detected in the associated samples; 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.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-233598-1	MW-13A-R	Water	04/12/23 09:22	04/14/23 10:30
680-233598-3	MW-15	Water	04/12/23 14:27	04/14/23 10:30
680-233598-4	MW-15F	Water	04/12/23 14:27	04/14/23 10:30
680-233598-5	MW-16	Water	04/12/23 15:58	04/14/23 10:30
680-233598-6	MW-16F	Water	04/12/23 15:58	04/14/23 10:30
680-233598-7	OW-06A	Water	04/12/23 15:15	04/14/23 10:30
680-233598-8	TRIP BLANK 20230412	Water	04/12/23 09:00	04/14/23 10:30

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Client Sample ID: MW-13A-R

Lab Sample ID: 680-233598-1

No Detections.

Client Sample ID: MW-15

Lab Sample ID: 680-233598-3

No Detections.

Client Sample ID: MW-15F

Lab Sample ID: 680-233598-4

No Detections.

Client Sample ID: MW-16

Lab Sample ID: 680-233598-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
o,o',o"-Triethylphosphorothioate	58		10	0.97	ug/L	1			8270D	Total/NA

Client Sample ID: MW-16F

Lab Sample ID: 680-233598-6

No Detections.

Client Sample ID: OW-06A

Lab Sample ID: 680-233598-7

No Detections.

Client Sample ID: TRIP BLANK 20230412

Lab Sample ID: 680-233598-8

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Client Sample ID: MW-13A-R

Lab Sample ID: 680-233598-1

Date Collected: 04/12/23 09:22

Matrix: Water

Date Received: 04/14/23 10:30

Method: SW846 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		04/19/23 22:00	05/05/23 01:05	1
o,o',o"-Triethylphosphorothioate	<10		10	0.97	ug/L		04/19/23 22:00	05/05/23 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	48		32 - 113				04/19/23 22:00	05/05/23 01:05	1
2-Fluorophenol	32		26 - 109				04/19/23 22:00	05/05/23 01:05	1
Nitrobenzene-d5	44		32 - 118				04/19/23 22:00	05/05/23 01:05	1
Phenol-d5	0.9	S1-	27 - 110				04/19/23 22:00	05/05/23 01:05	1
Terphenyl-d14	47		10 - 126				04/19/23 22:00	05/05/23 01:05	1
2,4,6-Tribromophenol	53		39 - 124				04/19/23 22:00	05/05/23 01:05	1

Method: SW846 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		05/04/23 21:20	05/07/23 20:01	1
PCB-1221	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 20:01	1
PCB-1232	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 20:01	1
PCB-1242	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 20:01	1
PCB-1248	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 20:01	1
PCB-1254	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 20:01	1
PCB-1260	<0.50	*+	0.50	0.058	ug/L		05/04/23 21:20	05/07/23 20:01	1
PCB-1268	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 20:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		14 - 130				05/04/23 21:20	05/07/23 20:01	1
Tetrachloro-m-xylene	55		40 - 130				05/04/23 21:20	05/07/23 20:01	1

Method: SW846 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		04/19/23 14:52	04/26/23 08:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	73		60 - 154				04/19/23 14:52	04/26/23 08:49	1

Client Sample ID: MW-15

Lab Sample ID: 680-233598-3

Date Collected: 04/12/23 14:27

Matrix: Water

Date Received: 04/14/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/25/23 14:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130					04/25/23 14:20	1
1,2-Dichloroethane-d4 (Surr)	95		60 - 124					04/25/23 14:20	1
Dibromofluoromethane (Surr)	96		70 - 130					04/25/23 14:20	1
4-Bromofluorobenzene (Surr)	92		70 - 130					04/25/23 14:20	1

Method: SW846 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		04/19/23 22:00	05/05/23 01:28	1
o,o',o"-Triethylphosphorothioate	<10		10	0.97	ug/L		04/19/23 22:00	05/05/23 01:28	1
1,2-Dichlorobenzene	<10		10	0.52	ug/L		04/19/23 22:00	05/05/23 01:28	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Client Sample ID: MW-15

Lab Sample ID: 680-233598-3

Date Collected: 04/12/23 14:27

Matrix: Water

Date Received: 04/14/23 10:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<10		10	0.53	ug/L		04/19/23 22:00	05/05/23 01:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	49		32 - 113				04/19/23 22:00	05/05/23 01:28	1
2-Fluorophenol	33		26 - 109				04/19/23 22:00	05/05/23 01:28	1
Nitrobenzene-d5	46		32 - 118				04/19/23 22:00	05/05/23 01:28	1
Phenol-d5	18	S1-	27 - 110				04/19/23 22:00	05/05/23 01:28	1
Terphenyl-d14	56		10 - 126				04/19/23 22:00	05/05/23 01:28	1
2,4,6-Tribromophenol	52		39 - 124				04/19/23 22:00	05/05/23 01:28	1

Method: SW846 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		05/04/23 21:20	05/07/23 20:20	1
PCB-1221	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 20:20	1
PCB-1232	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 20:20	1
PCB-1242	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 20:20	1
PCB-1248	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 20:20	1
PCB-1254	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 20:20	1
PCB-1260	<0.50	*+	0.50	0.059	ug/L		05/04/23 21:20	05/07/23 20:20	1
PCB-1268	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		14 - 130				05/04/23 21:20	05/07/23 20:20	1
Tetrachloro-m-xylene	55		40 - 130				05/04/23 21:20	05/07/23 20:20	1

Method: SW846 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		04/19/23 14:52	04/26/23 09:28	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.16	ug/L		04/19/23 14:52	04/26/23 09:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	70		60 - 154				04/19/23 14:52	04/26/23 09:28	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/17/23 05:59	04/17/23 19:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/18/23 07:39	04/18/23 14:35	1

Client Sample ID: MW-15F

Lab Sample ID: 680-233598-4

Date Collected: 04/12/23 14:27

Matrix: Water

Date Received: 04/14/23 10:30

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 20:38	1
PCB-1221, Dissolved	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 20:38	1
PCB-1232, Dissolved	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 20:38	1
PCB-1242, Dissolved	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 20:38	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Client Sample ID: MW-15F

Lab Sample ID: 680-233598-4

Date Collected: 04/12/23 14:27

Matrix: Water

Date Received: 04/14/23 10:30

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248, Dissolved	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 20:38	1
PCB-1254, Dissolved	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 20:38	1
PCB-1260, Dissolved	<0.50	+	0.50	0.059	ug/L		05/04/23 21:20	05/07/23 20:38	1
PCB-1268, Dissolved	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	13	S1-	14 - 130				05/04/23 21:20	05/07/23 20:38	1
Tetrachloro-m-xylene	52		40 - 130				05/04/23 21:20	05/07/23 20:38	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/17/23 05:59	04/17/23 19:15	1

Method: SW846 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		04/18/23 07:39	04/18/23 14:39	1

Client Sample ID: MW-16

Lab Sample ID: 680-233598-5

Date Collected: 04/12/23 15:58

Matrix: Water

Date Received: 04/14/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/25/23 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130					04/25/23 14:42	1
1,2-Dichloroethane-d4 (Surr)	93		60 - 124					04/25/23 14:42	1
Dibromofluoromethane (Surr)	97		70 - 130					04/25/23 14:42	1
4-Bromofluorobenzene (Surr)	91		70 - 130					04/25/23 14:42	1

Method: SW846 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		04/19/23 22:00	05/05/23 01:52	1
o,o',o"-Triethylphosphorothioate	58		10	0.97	ug/L		04/19/23 22:00	05/05/23 01:52	1
1,2-Dichlorobenzene	<10		10	0.51	ug/L		04/19/23 22:00	05/05/23 01:52	1
1,4-Dichlorobenzene	<10		10	0.52	ug/L		04/19/23 22:00	05/05/23 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	55		32 - 113				04/19/23 22:00	05/05/23 01:52	1
2-Fluorophenol	38		26 - 109				04/19/23 22:00	05/05/23 01:52	1
Nitrobenzene-d5	55		32 - 118				04/19/23 22:00	05/05/23 01:52	1
Phenol-d5	40		27 - 110				04/19/23 22:00	05/05/23 01:52	1
Terphenyl-d14	57		10 - 126				04/19/23 22:00	05/05/23 01:52	1
2,4,6-Tribromophenol	68		39 - 124				04/19/23 22:00	05/05/23 01:52	1

Method: SW846 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		05/04/23 21:20	05/07/23 20:56	1
PCB-1221	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 20:56	1
PCB-1232	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 20:56	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Client Sample ID: MW-16

Lab Sample ID: 680-233598-5

Date Collected: 04/12/23 15:58

Matrix: Water

Date Received: 04/14/23 10:30

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 20:56	1
PCB-1248	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 20:56	1
PCB-1254	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 20:56	1
PCB-1260	<0.50	+	0.50	0.060	ug/L		05/04/23 21:20	05/07/23 20:56	1
PCB-1268	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 20:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	28		14 - 130				05/04/23 21:20	05/07/23 20:56	1
Tetrachloro-m-xylene	35	S1-	40 - 130				05/04/23 21:20	05/07/23 20:56	1

Method: SW846 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		04/19/23 14:52	04/26/23 10:07	1
Tetraethylthiopyrophosphate	<1.5		1.5	0.16	ug/L		04/19/23 14:52	04/26/23 10:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	63		60 - 154				04/19/23 14:52	04/26/23 10:07	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/15/23 07:01	04/17/23 14:22	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/18/23 07:39	04/18/23 14:41	1

Client Sample ID: MW-16F

Lab Sample ID: 680-233598-6

Date Collected: 04/12/23 15:58

Matrix: Water

Date Received: 04/14/23 10:30

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 21:14	1
PCB-1221, Dissolved	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 21:14	1
PCB-1232, Dissolved	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 21:14	1
PCB-1242, Dissolved	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 21:14	1
PCB-1248, Dissolved	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 21:14	1
PCB-1254, Dissolved	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 21:14	1
PCB-1260, Dissolved	<0.50	+	0.50	0.060	ug/L		05/04/23 21:20	05/07/23 21:14	1
PCB-1268, Dissolved	<0.50		0.50	0.089	ug/L		05/04/23 21:20	05/07/23 21:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	15		14 - 130				05/04/23 21:20	05/07/23 21:14	1
Tetrachloro-m-xylene	65	p	40 - 130				05/04/23 21:20	05/07/23 21:14	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/17/23 05:59	04/17/23 19:18	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Client Sample ID: MW-16F

Lab Sample ID: 680-233598-6

Date Collected: 04/12/23 15:58

Matrix: Water

Date Received: 04/14/23 10:30

Method: SW846 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		04/18/23 07:39	04/18/23 14:43	1

Client Sample ID: OW-06A

Lab Sample ID: 680-233598-7

Date Collected: 04/12/23 15:15

Matrix: Water

Date Received: 04/14/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/25/23 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		04/25/23 15:04	1
1,2-Dichloroethane-d4 (Surr)	94		60 - 124		04/25/23 15:04	1
Dibromofluoromethane (Surr)	95		70 - 130		04/25/23 15:04	1
4-Bromofluorobenzene (Surr)	92		70 - 130		04/25/23 15:04	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.50	ug/L		04/19/23 22:00	05/05/23 02:15	1
1,4-Dichlorobenzene	<10		10	0.51	ug/L		04/19/23 22:00	05/05/23 02:15	1
4-Nitrophenol	<25		25	1.8	ug/L		04/19/23 22:00	05/05/23 02:15	1
o,o',o"-Triethylphosphorothioate	<10		10	0.95	ug/L		04/19/23 22:00	05/05/23 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		32 - 113	04/19/23 22:00	05/05/23 02:15	1
2-Fluorophenol	39		26 - 109	04/19/23 22:00	05/05/23 02:15	1
Nitrobenzene-d5	51		32 - 118	04/19/23 22:00	05/05/23 02:15	1
Phenol-d5	38		27 - 110	04/19/23 22:00	05/05/23 02:15	1
Terphenyl-d14	58		10 - 126	04/19/23 22:00	05/05/23 02:15	1
2,4,6-Tribromophenol	58		39 - 124	04/19/23 22:00	05/05/23 02:15	1

Method: SW846 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		05/04/23 21:20	05/07/23 21:33	1
PCB-1221	<0.50		0.50	0.087	ug/L		05/04/23 21:20	05/07/23 21:33	1
PCB-1232	<0.50		0.50	0.087	ug/L		05/04/23 21:20	05/07/23 21:33	1
PCB-1242	<0.50		0.50	0.087	ug/L		05/04/23 21:20	05/07/23 21:33	1
PCB-1248	<0.50		0.50	0.087	ug/L		05/04/23 21:20	05/07/23 21:33	1
PCB-1254	<0.50		0.50	0.087	ug/L		05/04/23 21:20	05/07/23 21:33	1
PCB-1260	<0.50	*+	0.50	0.058	ug/L		05/04/23 21:20	05/07/23 21:33	1
PCB-1268	<0.50		0.50	0.087	ug/L		05/04/23 21:20	05/07/23 21:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	80		14 - 130	05/04/23 21:20	05/07/23 21:33	1
Tetrachloro-m-xylene	63		40 - 130	05/04/23 21:20	05/07/23 21:33	1

Method: SW846 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		04/19/23 14:52	04/26/23 10:45	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.16	ug/L		04/19/23 14:52	04/26/23 10:45	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Client Sample ID: OW-06A

Lab Sample ID: 680-233598-7

Date Collected: 04/12/23 15:15

Matrix: Water

Date Received: 04/14/23 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	72		60 - 154	04/19/23 14:52	04/26/23 10:45	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/17/23 05:59	04/17/23 19:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/18/23 07:39	04/18/23 14:44	1

Client Sample ID: TRIP BLANK 20230412

Lab Sample ID: 680-233598-8

Date Collected: 04/12/23 09:00

Matrix: Water

Date Received: 04/14/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/23/23 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130					04/23/23 18:32	1
1,2-Dichloroethane-d4 (Surr)	94		60 - 124					04/23/23 18:32	1
Dibromofluoromethane (Surr)	96		70 - 130					04/23/23 18:32	1
4-Bromofluorobenzene (Surr)	92		70 - 130					04/23/23 18:32	1

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (70-130)	DCA (60-124)	DBFM (70-130)	BFB (70-130)
680-233598-3	MW-15	95	95	96	92
680-233598-5	MW-16	96	93	97	91
680-233598-7	OW-06A	94	94	95	92
680-233598-8	TRIP BLANK 20230412	95	94	96	92
LCS 680-774831/4	Lab Control Sample	100	101	105	97
LCS 680-775160/4	Lab Control Sample	100	107	105	96
LCSD 680-774831/5	Lab Control Sample Dup	99	100	104	98
LCSD 680-775160/5	Lab Control Sample Dup	102	105	106	97
MB 680-774831/8	Method Blank	96	95	96	94
MB 680-775160/8	Method Blank	95	93	96	95

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (32-113)	2FP (26-109)	NBZ (32-118)	PHL (27-110)	TPHL (10-126)	TBP (39-124)
680-233598-1	MW-13A-R	48	32	44	0.9 S1-	47	53
680-233598-3	MW-15	49	33	46	18 S1-	56	52
680-233598-5	MW-16	55	38	55	40	57	68
680-233598-7	OW-06A	52	39	51	38	58	58
LCS 680-774312/21-A	Lab Control Sample	57	43	54	46	63	63
LCS 680-774312/24-A	Lab Control Sample	57	45	60	48	51	57
MB 680-774312/20-A	Method Blank	55	43	54	46	65	56

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2 (14-130)	TCX2 (40-130)
680-233598-1	MW-13A-R	78	55
680-233598-5	MW-16	28	35 S1-
680-233598-7	OW-06A	80	63
MB 680-777035/20-A	Method Blank	103	60

Surrogate Legend

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Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Job ID: 680-233598-1

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)
680-233598-3	MW-15	79	55
LCS 680-777035/21-A	Lab Control Sample	75	53
LCSD 680-777035/22-A	Lab Control Sample Dup	114	77
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)	
Lab Sample ID	Client Sample ID	DCBP1 (14-130)	TCX2 (40-130)
680-233598-4	MW-15F	13 S1-	52
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)	
Lab Sample ID	Client Sample ID	DCBP2 (14-130)	TCX1 (40-130)
680-233598-6	MW-16F	15	65 p
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)	
Lab Sample ID	Client Sample ID	TPP1 (60-154)	
680-233598-1	MW-13A-R	73	
680-233598-3	MW-15	70	
680-233598-5	MW-16	63	
680-233598-7	OW-06A	72	
LCS 280-609225/2-A	Lab Control Sample	78	
LCSD 280-609225/3-A	Lab Control Sample Dup	82	
MB 280-609225/1-A	Method Blank	64	

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Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Surrogate Legend

TPP = Triphenylphosphate

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-774831/8

Matrix: Water

Analysis Batch: 774831

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	0.15	ug/L			04/23/23 16:27	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130					04/23/23 16:27	1
1,2-Dichloroethane-d4 (Surr)	95		60 - 124					04/23/23 16:27	1
Dibromofluoromethane (Surr)	96		70 - 130					04/23/23 16:27	1
4-Bromofluorobenzene (Surr)	94		70 - 130					04/23/23 16:27	1

Lab Sample ID: LCS 680-774831/4

Matrix: Water

Analysis Batch: 774831

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	48.6		ug/L		97	70 - 130	
Surrogate	%Recovery	LCS Qualifier	Limits					
Toluene-d8 (Surr)	100		70 - 130					
1,2-Dichloroethane-d4 (Surr)	101		60 - 124					
Dibromofluoromethane (Surr)	105		70 - 130					
4-Bromofluorobenzene (Surr)	97		70 - 130					

Lab Sample ID: LCSD 680-774831/5

Matrix: Water

Analysis Batch: 774831

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	47.7		ug/L		95	70 - 130	2	30
Surrogate	%Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	99		70 - 130						
1,2-Dichloroethane-d4 (Surr)	100		60 - 124						
Dibromofluoromethane (Surr)	104		70 - 130						
4-Bromofluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: MB 680-775160/8

Matrix: Water

Analysis Batch: 775160

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	0.15	ug/L			04/25/23 13:36	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130					04/25/23 13:36	1
1,2-Dichloroethane-d4 (Surr)	93		60 - 124					04/25/23 13:36	1
Dibromofluoromethane (Surr)	96		70 - 130					04/25/23 13:36	1
4-Bromofluorobenzene (Surr)	95		70 - 130					04/25/23 13:36	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-775160/4

Matrix: Water

Analysis Batch: 775160

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	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	100		70 - 130				
1,2-Dichloroethane-d4 (Surr)	107		60 - 124				
Dibromofluoromethane (Surr)	105		70 - 130				
4-Bromofluorobenzene (Surr)	96		70 - 130				

Lab Sample ID: LCSD 680-775160/5

Matrix: Water

Analysis Batch: 775160

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	48.5		ug/L		97	70 - 130	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	102		70 - 130						
1,2-Dichloroethane-d4 (Surr)	105		60 - 124						
Dibromofluoromethane (Surr)	106		70 - 130						
4-Bromofluorobenzene (Surr)	97		70 - 130						

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-774312/20-A

Matrix: Water

Analysis Batch: 777012

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 774312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		04/19/23 22:00	05/04/23 21:13	1
o,o',o''-Triethylphosphorothioate	<10		10	1.0	ug/L		04/19/23 22:00	05/04/23 21:13	1
1,2-Dichlorobenzene	<10		10	0.53	ug/L		04/19/23 22:00	05/04/23 21:13	1
1,4-Dichlorobenzene	<10		10	0.54	ug/L		04/19/23 22:00	05/04/23 21:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
2-Fluorobiphenyl	55		32 - 113						
2-Fluorophenol	43		26 - 109						
Nitrobenzene-d5	54		32 - 118						
Phenol-d5	46		27 - 110						
Terphenyl-d14	65		10 - 126						
2,4,6-Tribromophenol	56		39 - 124						

Lab Sample ID: LCS 680-774312/21-A

Matrix: Water

Analysis Batch: 777012

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitrophenol	200	177		ug/L		88	44 - 130
1,2-Dichlorobenzene	100	50.0		ug/L		50	31 - 130

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-774312/21-A

Matrix: Water

Analysis Batch: 777012

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	100	48.1		ug/L		48	31 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl	57		32 - 113				
2-Fluorophenol	43		26 - 109				
Nitrobenzene-d5	54		32 - 118				
Phenol-d5	46		27 - 110				
Terphenyl-d14	63		10 - 126				
2,4,6-Tribromophenol	63		39 - 124				

Lab Sample ID: LCS 680-774312/24-A

Matrix: Water

Analysis Batch: 777012

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o''-Triethylphosphorothioate	100	57.3		ug/L		57	23 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl	57		32 - 113				
2-Fluorophenol	45		26 - 109				
Nitrobenzene-d5	60		32 - 118				
Phenol-d5	48		27 - 110				
Terphenyl-d14	51		10 - 126				
2,4,6-Tribromophenol	57		39 - 124				

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas

Chromatography

Lab Sample ID: MB 680-777035/20-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1221	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1232	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1242	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1248	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1254	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1260	<0.50		0.50	0.060	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1268	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 680-777035/20-A
Matrix: Water
Analysis Batch: 777391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 777035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	103		14 - 130				05/04/23 21:20	05/07/23 17:16	1
Tetrachloro-m-xylene	60		40 - 130				05/04/23 21:20	05/07/23 17:16	1

Lab Sample ID: LCS 680-777035/21-A
Matrix: Water
Analysis Batch: 777391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 777035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	3.00	2.70		ug/L		90	44 - 130
PCB-1016, Dissolved	3.00	2.70		ug/L		90	44 - 130
PCB-1260	3.00	3.15		ug/L		105	35 - 130
PCB-1260, Dissolved	3.00	3.15		ug/L		105	35 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl	75		14 - 130				
Tetrachloro-m-xylene	53		40 - 130				

Lab Sample ID: LCSD 680-777035/22-A
Matrix: Water
Analysis Batch: 777391

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 777035

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	3.00	3.61		ug/L		120	44 - 130	29	30
PCB-1016, Dissolved	3.00	3.61		ug/L		120	44 - 130	29	30
PCB-1260	3.00	4.01	*+	ug/L		134	35 - 130	24	40
PCB-1260, Dissolved	3.00	4.01	*+	ug/L		134	35 - 130	24	40
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
DCB Decachlorobiphenyl	114		14 - 130						
Tetrachloro-m-xylene	77		40 - 130						

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-609225/1-A
Matrix: Water
Analysis Batch: 610058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/19/23 14:52	04/25/23 19:10	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.17	ug/L		04/19/23 14:52	04/25/23 19:10	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: MB 280-609225/1-A
Matrix: Water
Analysis Batch: 610058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609225

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	64		60 - 154	04/19/23 14:52	04/25/23 19:10	1

Lab Sample ID: LCS 280-609225/2-A
Matrix: Water
Analysis Batch: 610058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	4.00	3.54		ug/L		89	55 - 107
Tetraethyldithiopyrophosphate	4.00	3.39		ug/L		85	53 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate	78		60 - 154

Lab Sample ID: LCSD 280-609225/3-A
Matrix: Water
Analysis Batch: 610058

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 609225

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Parathion	4.00	3.65		ug/L		91	55 - 107	3	20
Tetraethyldithiopyrophosphate	4.00	3.57		ug/L		89	53 - 110	5	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Triphenylphosphate	82		60 - 154

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-773623/1-A
Matrix: Water
Analysis Batch: 773899

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 773623

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/17/23 05:59	04/17/23 18:32	1
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/17/23 05:59	04/17/23 18:32	1

Lab Sample ID: LCS 680-773623/2-A
Matrix: Water
Analysis Batch: 773899

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 773623

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.0500	0.0561		mg/L		112	80 - 120
Cobalt, Dissolved	0.0500	0.0561		mg/L		112	80 - 120

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-773464/1-A
Matrix: Water
Analysis Batch: 773899

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 773464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/15/23 07:01	04/17/23 13:02	1

Lab Sample ID: LCS 680-773464/2-A
Matrix: Water
Analysis Batch: 773899

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 773464

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.0500	0.0560		mg/L		112	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-773890/1-A
Matrix: Water
Analysis Batch: 774083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 773890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/18/23 07:39	04/18/23 14:13	1
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/18/23 07:39	04/18/23 14:13	1

Lab Sample ID: LCS 680-773890/2-A
Matrix: Water
Analysis Batch: 774083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 773890

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00259		mg/L		103	80 - 120
Mercury, Dissolved	0.00250	0.00259		mg/L		103	80 - 120

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

GC/MS VOA

Analysis Batch: 774831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233598-8	TRIP BLANK 20230412	Total/NA	Water	8260D	
MB 680-774831/8	Method Blank	Total/NA	Water	8260D	
LCS 680-774831/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-774831/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 775160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233598-3	MW-15	Total/NA	Water	8260D	
680-233598-5	MW-16	Total/NA	Water	8260D	
680-233598-7	OW-06A	Total/NA	Water	8260D	
MB 680-775160/8	Method Blank	Total/NA	Water	8260D	
LCS 680-775160/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-775160/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 774312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233598-1	MW-13A-R	Total/NA	Water	3520C	
680-233598-3	MW-15	Total/NA	Water	3520C	
680-233598-5	MW-16	Total/NA	Water	3520C	
680-233598-7	OW-06A	Total/NA	Water	3520C	
MB 680-774312/20-A	Method Blank	Total/NA	Water	3520C	
LCS 680-774312/21-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-774312/24-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 777010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233598-1	MW-13A-R	Total/NA	Water	8270D	774312
680-233598-3	MW-15	Total/NA	Water	8270D	774312
680-233598-5	MW-16	Total/NA	Water	8270D	774312
680-233598-7	OW-06A	Total/NA	Water	8270D	774312

Analysis Batch: 777012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-774312/20-A	Method Blank	Total/NA	Water	8270D	774312
LCS 680-774312/21-A	Lab Control Sample	Total/NA	Water	8270D	774312
LCS 680-774312/24-A	Lab Control Sample	Total/NA	Water	8270D	774312

GC Semi VOA

Prep Batch: 609225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233598-1	MW-13A-R	Total/NA	Water	3510C	
680-233598-3	MW-15	Total/NA	Water	3510C	
680-233598-5	MW-16	Total/NA	Water	3510C	
680-233598-7	OW-06A	Total/NA	Water	3510C	
MB 280-609225/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-609225/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-609225/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

GC Semi VOA

Analysis Batch: 610058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233598-1	MW-13A-R	Total/NA	Water	8141B	609225
680-233598-3	MW-15	Total/NA	Water	8141B	609225
680-233598-5	MW-16	Total/NA	Water	8141B	609225
680-233598-7	OW-06A	Total/NA	Water	8141B	609225
MB 280-609225/1-A	Method Blank	Total/NA	Water	8141B	609225
LCS 280-609225/2-A	Lab Control Sample	Total/NA	Water	8141B	609225
LCSD 280-609225/3-A	Lab Control Sample Dup	Total/NA	Water	8141B	609225

Prep Batch: 777035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233598-1	MW-13A-R	Total/NA	Water	3520C	
680-233598-3	MW-15	Total/NA	Water	3520C	
680-233598-4	MW-15F	Dissolved	Water	3520C	
680-233598-5	MW-16	Total/NA	Water	3520C	
680-233598-6	MW-16F	Dissolved	Water	3520C	
680-233598-7	OW-06A	Total/NA	Water	3520C	
MB 680-777035/20-A	Method Blank	Total/NA	Water	3520C	
LCS 680-777035/21-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-777035/22-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 777391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233598-1	MW-13A-R	Total/NA	Water	8081B/8082A	777035
680-233598-3	MW-15	Total/NA	Water	8081B/8082A	777035
680-233598-4	MW-15F	Dissolved	Water	8081B/8082A	777035
680-233598-5	MW-16	Total/NA	Water	8081B/8082A	777035
680-233598-6	MW-16F	Dissolved	Water	8081B/8082A	777035
680-233598-7	OW-06A	Total/NA	Water	8081B/8082A	777035
MB 680-777035/20-A	Method Blank	Total/NA	Water	8081B/8082A	777035
LCS 680-777035/21-A	Lab Control Sample	Total/NA	Water	8081B/8082A	777035
LCSD 680-777035/22-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	777035

Metals

Prep Batch: 773464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233598-5	MW-16	Total Recoverable	Water	3005A	
MB 680-773464/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-773464/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 773623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233598-3	MW-15	Total Recoverable	Water	3005A	
680-233598-4	MW-15F	Dissolved	Water	3005A	
680-233598-6	MW-16F	Dissolved	Water	3005A	
680-233598-7	OW-06A	Total Recoverable	Water	3005A	
MB 680-773623/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-773623/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Metals

Prep Batch: 773890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233598-3	MW-15	Total/NA	Water	7470A	
680-233598-4	MW-15F	Dissolved	Water	7470A	
680-233598-5	MW-16	Total/NA	Water	7470A	
680-233598-6	MW-16F	Dissolved	Water	7470A	
680-233598-7	OW-06A	Total/NA	Water	7470A	
MB 680-773890/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-773890/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 773899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233598-3	MW-15	Total Recoverable	Water	6010D	773623
680-233598-4	MW-15F	Dissolved	Water	6010C	773623
680-233598-5	MW-16	Total Recoverable	Water	6010D	773464
680-233598-6	MW-16F	Dissolved	Water	6010C	773623
680-233598-7	OW-06A	Total Recoverable	Water	6010D	773623
MB 680-773464/1-A	Method Blank	Total Recoverable	Water	6010D	773464
MB 680-773623/1-A	Method Blank	Total Recoverable	Water	6010C	773623
LCS 680-773464/2-A	Lab Control Sample	Total Recoverable	Water	6010D	773464
LCS 680-773623/2-A	Lab Control Sample	Total Recoverable	Water	6010C	773623

Analysis Batch: 774083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233598-3	MW-15	Total/NA	Water	7470A	773890
680-233598-4	MW-15F	Dissolved	Water	7470A	773890
680-233598-5	MW-16	Total/NA	Water	7470A	773890
680-233598-6	MW-16F	Dissolved	Water	7470A	773890
680-233598-7	OW-06A	Total/NA	Water	7470A	773890
MB 680-773890/1-A	Method Blank	Total/NA	Water	7470A	773890
LCS 680-773890/2-A	Lab Control Sample	Total/NA	Water	7470A	773890

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Client Sample ID: MW-13A-R

Lab Sample ID: 680-233598-1

Date Collected: 04/12/23 09:22

Matrix: Water

Date Received: 04/14/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1034.4 mL	1 mL	774312	04/19/23 22:00	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	777010	05/05/23 01:05	T1C	EET SAV
Instrument ID: CMSG										
Total/NA	Prep	3520C			1027.5 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777391	05/07/23 20:01	GEM	EET SAV
Instrument ID: CSGJ										
Total/NA	Prep	3510C			1032.7 mL	2 mL	609225	04/19/23 14:52	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610058	04/26/23 08:49	SP	EET DEN
Instrument ID: SGC_D2										

Client Sample ID: MW-15

Lab Sample ID: 680-233598-3

Date Collected: 04/12/23 14:27

Matrix: Water

Date Received: 04/14/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	775160	04/25/23 14:20	Y1S	EET SAV
Instrument ID: CMSAJ										
Total/NA	Prep	3520C			1027.4 mL	1 mL	774312	04/19/23 22:00	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	777010	05/05/23 01:28	T1C	EET SAV
Instrument ID: CMSG										
Total/NA	Prep	3520C			1014.3 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777391	05/07/23 20:20	GEM	EET SAV
Instrument ID: CSGJ										
Total/NA	Prep	3510C			1028.5 mL	2 mL	609225	04/19/23 14:52	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610058	04/26/23 09:28	SP	EET DEN
Instrument ID: SGC_D2										
Total Recoverable	Prep	3005A			25 mL	25 mL	773623	04/17/23 05:59	RR	EET SAV
Total Recoverable	Analysis	6010D		1			773899	04/17/23 19:25	BJB	EET SAV
Instrument ID: ICPH										
Total/NA	Prep	7470A			50 mL	50 mL	773890	04/18/23 07:39	JKL	EET SAV
Total/NA	Analysis	7470A		1			774083	04/18/23 14:35	JKL	EET SAV
Instrument ID: QuickTrace2										

Client Sample ID: MW-15F

Lab Sample ID: 680-233598-4

Date Collected: 04/12/23 14:27

Matrix: Water

Date Received: 04/14/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1019.5 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Dissolved	Analysis	8081B/8082A		1	1 mL	1 mL	777391	05/07/23 20:38	GEM	EET SAV
Instrument ID: CSGJ										
Dissolved	Prep	3005A			25 mL	25 mL	773623	04/17/23 05:59	RR	EET SAV
Dissolved	Analysis	6010C		1			773899	04/17/23 19:15	BJB	EET SAV
Instrument ID: ICPH										

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Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Client Sample ID: MW-15F

Lab Sample ID: 680-233598-4

Date Collected: 04/12/23 14:27

Matrix: Water

Date Received: 04/14/23 10:30

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	773890	04/18/23 07:39	JKL	EET SAV
Dissolved	Analysis	7470A		1			774083	04/18/23 14:39	JKL	EET SAV
Instrument ID: QuickTrace2										

Client Sample ID: MW-16

Lab Sample ID: 680-233598-5

Date Collected: 04/12/23 15:58

Matrix: Water

Date Received: 04/14/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	775160	04/25/23 14:42	Y1S	EET SAV
Instrument ID: CMSAJ										
Total/NA	Prep	3520C			1034.6 mL	1 mL	774312	04/19/23 22:00	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	777010	05/05/23 01:52	T1C	EET SAV
Instrument ID: CMSG										
Total/NA	Prep	3520C			1005.6 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777391	05/07/23 20:56	GEM	EET SAV
Instrument ID: CSGJ										
Total/NA	Prep	3510C			1044.5 mL	2 mL	609225	04/19/23 14:52	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610058	04/26/23 10:07	SP	EET DEN
Instrument ID: SGC_D2										
Total Recoverable	Prep	3005A			25 mL	25 mL	773464	04/15/23 07:01	RR	EET SAV
Total Recoverable	Analysis	6010D		1			773899	04/17/23 14:22	BJB	EET SAV
Instrument ID: ICPH										
Total/NA	Prep	7470A			50 mL	50 mL	773890	04/18/23 07:39	JKL	EET SAV
Total/NA	Analysis	7470A		1			774083	04/18/23 14:41	JKL	EET SAV
Instrument ID: QuickTrace2										

Client Sample ID: MW-16F

Lab Sample ID: 680-233598-6

Date Collected: 04/12/23 15:58

Matrix: Water

Date Received: 04/14/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1005.9 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Dissolved	Analysis	8081B/8082A		1	1 mL	1 mL	777391	05/07/23 21:14	GEM	EET SAV
Instrument ID: CSGJ										
Dissolved	Prep	3005A			25 mL	25 mL	773623	04/17/23 05:59	RR	EET SAV
Dissolved	Analysis	6010C		1			773899	04/17/23 19:18	BJB	EET SAV
Instrument ID: ICPH										
Dissolved	Prep	7470A			50 mL	50 mL	773890	04/18/23 07:39	JKL	EET SAV
Dissolved	Analysis	7470A		1			774083	04/18/23 14:43	JKL	EET SAV
Instrument ID: QuickTrace2										

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Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Client Sample ID: OW-06A

Lab Sample ID: 680-233598-7

Date Collected: 04/12/23 15:15

Matrix: Water

Date Received: 04/14/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	775160	04/25/23 15:04	Y1S	EET SAV
Instrument ID: CMSAJ										
Total/NA	Prep	3520C			1050.6 mL	1 mL	774312	04/19/23 22:00	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	777010	05/05/23 02:15	T1C	EET SAV
Instrument ID: CMSG										
Total/NA	Prep	3520C			1034.2 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777391	05/07/23 21:33	GEM	EET SAV
Instrument ID: CSGJ										
Total/NA	Prep	3510C			1041.3 mL	2 mL	609225	04/19/23 14:52	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610058	04/26/23 10:45	SP	EET DEN
Instrument ID: SGC_D2										
Total Recoverable	Prep	3005A			25 mL	25 mL	773623	04/17/23 05:59	RR	EET SAV
Total Recoverable	Analysis	6010D		1			773899	04/17/23 19:21	BJB	EET SAV
Instrument ID: ICPH										
Total/NA	Prep	7470A			50 mL	50 mL	773890	04/18/23 07:39	JKL	EET SAV
Total/NA	Analysis	7470A		1			774083	04/18/23 14:44	JKL	EET SAV
Instrument ID: QuickTrace2										

Client Sample ID: TRIP BLANK 20230412

Lab Sample ID: 680-233598-8

Date Collected: 04/12/23 09:00

Matrix: Water

Date Received: 04/14/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	774831	04/23/23 18:32	Y1S	EET SAV
Instrument ID: CMSAJ										

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-23

Laboratory: Eurofins 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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-23 *
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Oregon	NELAP	4025-011	01-10-24
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	12037	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Savannah

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233598-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	EET SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	EET DEN
6010C	Metals (ICP)	SW846	EET SAV
6010D	Metals (ICP)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody Record



Client Information		Sampler		Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact: Ben Smith		Phone: 713-522-6300		Savore, Noel		State of Origin:		680-145262-52688.2	
Company: GSI Environmental, Inc		Address: 2211 Norfolk, Suite 1000 Houston, TX, 77098-4044		E-Mail: Noel.Savore@et.eurofins.com		Job #:		Page: 1 of 1	
Due Date Requested:		TAT Requested (days):		Compliance Project: ☐ Yes ☐ No		Analysis Requested		Preservation Codes:	
PO #: 48888888		WO #: 55048740		Project #:		Field Filtered Sample (Yes or No)		A-HCL	
Project Name: Anniston RCRA March 2023		Site:		Matrix (Newer, Sealed, On-waste, Available)		Perform MS/MSD (Yes or No)		B-NaOH	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		C-Zn Acetate	
MW-13A-R		4/12/23		0922		G		D-Nitric Acid	
MW-13A-RF				0922				E-NaHSO4	
MW-15				1427				F-MeOH	
MW-15F				1427				G-Anchior	
MW-16				1558				H-Ascorbic Acid	
MW-16F				1558				I-Ice	
OW-06A				1515				J-DI Water	
Tnp blank 2023 0412				0900				K-EDTA	
Sample Disposal (A fee may be assessed)		Return To Client		Disposal		Special Instructions/QC Requirements		L-EDA	
Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological ☐		Date:		Time:		Other:	
Deliverable Requested: I, II, IV, Other (specify)		Empty Kit Relinquished by:		Date:		Time:		Total Number of containers	
Relinquished by: Ellen Kanner		Date/Time: 4/13/23 7:33		Company: GSI		Received by:		Special Instructions/Note:	
Relinquished by:		Date/Time:		Company:		Received by:		680-233598 Chain of Custody	
Relinquished by:		Date/Time:		Company:		Received by:		Barcode	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:		4-6/14-4		Ver 06/08/2021	



Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404

Savannah, GA 31404

Phone: 912-354-7858 Fax: 912-352-0165

[illegible]

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-233598-1

Login Number: 233598

List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (1/4").	True	
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: 680-233598-1

Login Number: 233598

List Number: 2

Creator: Cannon, Charles D

List Source: Eurofins Denver

List Creation: 04/18/23 05:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	False	COC not relinquished.
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 $<6\text{mm}$ (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 Name: CERCLA Groundwater Monitoring
 Reviewer: Jessica Alanis

Project Manager: Noel Savoie
 Project Number: 680-233638-1
 Validation Date: 08/16/2023

Laboratory: Eurofins Savannah SDG #: 680-233638-1
 Analytical Method (type and no.): PCBs (8081A/8082B)
 Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐
 Sample Names: T-06, T-06F, OWR-15D, OWR-15DF

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)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
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: Sample OWR-15D, analysis of method 8081B/ 8082A was re-performed by the laboratory due to a failure of quality control parameters in the initial analysis, causing hold time issues. See below. The RPD between the primary and confirmation column exceeded control limits in a surrogate of Method 8081B/8082A for sample OWR-15D and OWR-15DF; however, all recoveries were within acceptance limits, so no qualification is required.

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?	☒	☐	☐	

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?	☐	☒	☐	<u>PCB-1221 in sample OWR-15D was re-analyzed due to a lab failure of quality control parameters in the initial analysis, causing analyses to occur outside analytical holding time. The detection is qualified as estimated (J).</u>
c) Were the correct preservatives used?	☒	☐	☐	_____
d) Was the correct method used?	☒	☐	☐	_____
e) Were appropriate reporting limits achieved?	☒	☐	☐	_____
f) Were any sample dilutions noted?	☒	☐	☐	<u>PCB-1221 in sample OWR-15D had a dilution factor of 5.</u>
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?	☐	☒	☐	<u>PCB-1260 recovered high (134%) above the upper laboratory limit of 130%. All associated sample results are non-detect; therefore, no qualification is required.</u>
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)?	☒	☐	☐	<u>Multiple LCSDs</u>
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	<u>All LCS/ LCSD RPDs <29%</u>
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?	☐	☒	☐	<u>TCX recovered low (36%) below the lower laboratory limit of 40% in sample OWR-15D. However, this surrogate is not associated with the target analytes; therefore, no qualification is required. DCB recovered low (12%) below the lower laboratory limit of 14% in sample OWR-15DF, but above the expanded lower acceptance limit (10%) specified in the National Functional Guidelines for Organic Superfund Methods (NFG, 2020). Associated results are qualified as estimated (UJ).</u>
b) Were surrogate recoveries not calculated due to dilutions?	☐	☐	☒	_____

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
OWR-15D	PCB-1221	43 ug/L	J	Analyzed outside holding time
OWR-15DF	PCB-1016	<0.5 ug/L	UJ	Low DCB surrogate recovery
OWR-15DF	PCB-1221	<0.5 ug/L	UJ	Low DCB surrogate recovery
OWR-15DF	PCB-1232	<0.5 ug/L	UJ	Low DCB surrogate recovery
OWR-15DF	PCB-1242	<0.5 ug/L	UJ	Low DCB surrogate recovery
OWR-15DF	PCB-1248	<0.5 ug/L	UJ	Low DCB surrogate recovery
OWR-15DF	PCB-1254	<0.5 ug/L	UJ	Low DCB surrogate recovery
OWR-15DF	PCB-1260	<0.5 ug/L	UJ	Low DCB surrogate recovery
OWR-15DF	PCB-1268	<0.5 ug/L	UJ	Low DCB surrogate recovery

Signature: _____

Date: 8/16/2023

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044
Generated 8/7/2023 11:39:01 AM Revision 2

JOB DESCRIPTION

Anniston CERCLA April 2023

JOB NUMBER

680-233638-1

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
8/7/2023 11:39:01 AM
Revision 2

Authorized for release by
Noel Savoie, Project Manager I
Noel.Savoie@et.eurofinsus.com
(850)254-0107

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233638-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

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 2023

Job ID: 680-233638-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-233638-1	T-06	Water	04/13/23 14:06	04/15/23 08:45
680-233638-2	OWR-15D	Water	04/13/23 10:46	04/15/23 08:45
680-233638-3	OWR-15DF	Water	04/13/23 10:46	04/15/23 08:45
680-233638-4	T-06F	Water	04/13/23 14:06	04/15/23 08:45

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233638-1

Job ID: 680-233638-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-233638-1

Revision

The report being provided is a revision of the original report sent on 5/9/2023. The report (revision 1) is being revised due to the client requested review of the PCB Aroclor data.

Receipt

The samples were received on 4/15/2023 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C

Pesticides/PCBs

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: OWR-15D (680-233638-2) and OWR-15DF (680-233638-3). These results have been reported and qualified.

Method 8081B_8082A: The laboratory control sample duplicate (LCSD) for preparation batch 680-777035 and analytical batch 680-777391 recovered outside control limits for the following analyte: PCB-1260. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8081B/8082A: Reanalysis of the following sample was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. OWR-15D (680-233638-2).

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.

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233638-1

Client Sample ID: T-06

Lab Sample ID: 680-233638-1

Date Collected: 04/13/23 14:06

Matrix: Water

Date Received: 04/15/23 08:45

Method: SW846 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		05/04/23 21:20	05/07/23 21:51	1
PCB-1221	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 21:51	1
PCB-1232	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 21:51	1
PCB-1242	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 21:51	1
PCB-1248	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 21:51	1
PCB-1254	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 21:51	1
PCB-1260	<0.50	*+	0.50	0.059	ug/L		05/04/23 21:20	05/07/23 21:51	1
PCB-1268	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	49		14 - 130	05/04/23 21:20	05/07/23 21:51	1
Tetrachloro-m-xylene	41		40 - 130	05/04/23 21:20	05/07/23 21:51	1

Client Sample ID: OWR-15D

Lab Sample ID: 680-233638-2

Date Collected: 04/13/23 10:46

Matrix: Water

Date Received: 04/15/23 08:45

Method: SW846 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		05/04/23 21:20	05/07/23 22:10	1
PCB-1221	43	H	0.50	0.44	ug/L		05/04/23 21:20	06/24/23 14:14	5
PCB-1232	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 22:10	1
PCB-1242	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 22:10	1
PCB-1248	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 22:10	1
PCB-1254	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 22:10	1
PCB-1260	<0.50	*+	0.50	0.058	ug/L		05/04/23 21:20	05/07/23 22:10	1
PCB-1268	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 22:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	31		14 - 130	05/04/23 21:20	05/07/23 22:10	1
Tetrachloro-m-xylene	36	p S1-	40 - 130	05/04/23 21:20	05/07/23 22:10	1

Client Sample ID: OWR-15DF

Lab Sample ID: 680-233638-3

Date Collected: 04/13/23 10:46

Matrix: Water

Date Received: 04/15/23 08:45

Method: SW846 8082A - PCBs - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.097	ug/L		05/04/23 21:20	05/07/23 22:28	1
PCB-1221, Dissolved	<0.50		0.50	0.097	ug/L		05/04/23 21:20	05/07/23 22:28	1
PCB-1232, Dissolved	<0.50		0.50	0.097	ug/L		05/04/23 21:20	05/07/23 22:28	1
PCB-1242, Dissolved	<0.50		0.50	0.097	ug/L		05/04/23 21:20	05/07/23 22:28	1
PCB-1248, Dissolved	<0.50		0.50	0.097	ug/L		05/04/23 21:20	05/07/23 22:28	1
PCB-1254, Dissolved	<0.50		0.50	0.097	ug/L		05/04/23 21:20	05/07/23 22:28	1
PCB-1260, Dissolved	<0.50	*+	0.50	0.064	ug/L		05/04/23 21:20	05/07/23 22:28	1
PCB-1268, Dissolved	<0.50		0.50	0.097	ug/L		05/04/23 21:20	05/07/23 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	12	S1-	14 - 130	05/04/23 21:20	05/07/23 22:28	1
Tetrachloro-m-xylene	42	p	40 - 130	05/04/23 21:20	05/07/23 22:28	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233638-1

Client Sample ID: T-06F

Lab Sample ID: 680-233638-4

Date Collected: 04/13/23 14:06

Matrix: Water

Date Received: 04/15/23 08:45

Method: SW846 8082A - PCBs - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 22:47	1
PCB-1221, Dissolved	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 22:47	1
PCB-1232, Dissolved	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 22:47	1
PCB-1242, Dissolved	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 22:47	1
PCB-1248, Dissolved	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 22:47	1
PCB-1254, Dissolved	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 22:47	1
PCB-1260, Dissolved	<0.50	*+	0.50	0.059	ug/L		05/04/23 21:20	05/07/23 22:47	1
PCB-1268, Dissolved	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	25		14 - 130				05/04/23 21:20	05/07/23 22:47	1
Tetrachloro-m-xylene	75		40 - 130				05/04/23 21:20	05/07/23 22:47	1

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233638-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-777035/20-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1221	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1232	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1242	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1248	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1254	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1260	<0.50		0.50	0.060	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1268	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	103		14 - 130	05/04/23 21:20	05/07/23 17:16	1
Tetrachloro-m-xylene	60		40 - 130	05/04/23 21:20	05/07/23 17:16	1

Lab Sample ID: LCS 680-777035/21-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	3.00	2.70		ug/L		90	44 - 130
PCB-1016, Dissolved	3.00	2.70		ug/L		90	44 - 130
PCB-1260	3.00	3.15		ug/L		105	35 - 130
PCB-1260, Dissolved	3.00	3.15		ug/L		105	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	75		14 - 130
Tetrachloro-m-xylene	53		40 - 130

Lab Sample ID: LCSD 680-777035/22-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 777035

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	3.00	3.61		ug/L		120	44 - 130	29	30
PCB-1016, Dissolved	3.00	3.61		ug/L		120	44 - 130	29	30
PCB-1260	3.00	4.01	*+	ug/L		134	35 - 130	24	40
PCB-1260, Dissolved	3.00	4.01	*+	ug/L		134	35 - 130	24	40

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233638-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 680-777035/22-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 777035

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	114		14 - 130
Tetrachloro-m-xylene	77		40 - 130

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233638-1

GC Semi VOA

Prep Batch: 777035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233638-1	T-06	Total/NA	Water	3520C	
680-233638-2	OWR-15D	Total/NA	Water	3520C	
680-233638-3	OWR-15DF	Dissolved	Water	3520C	
680-233638-4	T-06F	Dissolved	Water	3520C	
MB 680-777035/20-A	Method Blank	Total/NA	Water	3520C	
LCS 680-777035/21-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-777035/22-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 777391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233638-1	T-06	Total/NA	Water	8081B/8082A	777035
680-233638-2	OWR-15D	Total/NA	Water	8081B/8082A	777035
680-233638-3	OWR-15DF	Dissolved	Water	8082A	777035
680-233638-4	T-06F	Dissolved	Water	8082A	777035
MB 680-777035/20-A	Method Blank	Total/NA	Water	8081B/8082A	777035
LCS 680-777035/21-A	Lab Control Sample	Total/NA	Water	8081B/8082A	777035
LCSD 680-777035/22-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	777035

Analysis Batch: 785331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233638-2	OWR-15D	Total/NA	Water	8081B/8082A	777035

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233638-1

Client Sample ID: T-06

Date Collected: 04/13/23 14:06

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233638-1

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			1021.6 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777391	05/07/23 21:51	GEM	EET SAV
Instrument ID: CSGJ										

Client Sample ID: OWR-15D

Date Collected: 04/13/23 10:46

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233638-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1028.1 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		5	1 mL	1 mL	785331	06/24/23 14:14	UI	EET SAV
Instrument ID: CSGAA										
Total/NA	Prep	3520C			1028.1 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777391	05/07/23 22:10	GEM	EET SAV
Instrument ID: CSGJ										

Client Sample ID: OWR-15DF

Date Collected: 04/13/23 10:46

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233638-3

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			931.3 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Dissolved	Analysis	8082A		1	1 mL	1 mL	777391	05/07/23 22:28	GEM	EET SAV
Instrument ID: CSGJ										

Client Sample ID: T-06F

Date Collected: 04/13/23 14:06

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233638-4

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			1018 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Dissolved	Analysis	8082A		1	1 mL	1 mL	777391	05/07/23 22:47	GEM	EET SAV
Instrument ID: CSGJ										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233638-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-23

1
2
3
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12

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233638-1

Method	Method Description	Protocol	Laboratory
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	EET SAV
8082A	PCBs	SW846	EET SAV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Phone: 912-354-7858 Fax: 912-352-0165

Ver- 06/08/2021

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-233638-1

Login Number: 233638

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	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 $<6\text{mm}$ (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 Name: RCRA Groundwater Monitoring
 Reviewer: Jessica Alanis

Project Manager: Noel Savoie
 Project Number: 680-233641-1
 Validation Date: 08/16/2023

Laboratory: Eurofins Savannah and Denver Laboratories SDG #: 680-233641-1
 Analytical Method (type and no.): PCBs (8081B/8081A), VOCs (8260B), SVOCs (8270D), SVOCs (8270D SIM), Pesticides (8141B)
 Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
 Sample Names: MW-08, MW-09A, MW-20A, MW-20AF, OW-22, OW-22F, Field Duplicate 1, Trip Blank 20230413

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? <u>MW-20A) and Trip Blank 20230413</u>	☒	☐	☐	<u>Field Duplicate 1, MS/MSD (collected at</u>
g) Field parameters collected (note types)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u> _____
h) Field Calibration within control limits?	☒	☐	☐	_____
i) Notations of unacceptable field conditions/performance 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?	☐	☒	☐	<u>Chlorobenzene in sample OW-22 was analyzed outside of the 14-day holding time (41 days after sample collection). A strict interpretation of the NFG would reject the non-detect result of chlorobenzene; however, the result was qualified as estimated (UJ) based on professional judgement since this sample result is in line with expected results, as chlorobenzene has never been detected at OW-22.</u>
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? <u>samples MW-20AF and OW-22F.</u>	☒	☐	☐	<u>Evidence of matrix interference was noted in</u>

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 = MW-20A Duplicate = Field Duplicate 1
b) Were field dup. precision criteria met (note RPD)? <u>Pentachlorophenol = 10%. Chlorobenzene = 0%.</u>	☒	☐	☐	<u>O,O,O-triethylphosphorothioate = 8%.</u>
c) Were lab duplicates analyzed (note original and duplicate samples)?	☒	☐	☐	<u>Multiple LCSDs</u>
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	<u>All LCS/ LCSD RPDs <2%</u>

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?	☐	☒	☐	<u>MS recovery for PCB-1016 and PCB-1260 by method 8081B/8082A (in samples collected from MW-20A) exceeded the upper laboratory control limit of 130%. Per NFG, 2020, these associated non-detect results do not require qualification.</u>
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☒	☐	_____
b) Was MSD accuracy criteria met?	☐	☒	☐	<u>MSD recovery for PCB-1016 and PCB-1260 by method 8081B/8082A (in samples collected from MW-20A) exceeded the upper laboratory control limit of 130%. Per NFG, 2020, these associated non-detect results do not require qualification.</u>
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☒	☐	_____
c) Were MS/MSD precision criteria met?	☒	☐	☐	<u>All MS/MSD RPDs ≤ 17%</u>

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☒	☐	<u>Nitrobenzene-d5, Phenol-d5, and 2,4,6-Tribromophenol recovered low (30%, 15%, 37%, respectively) below the lower laboratory limits of 32%, 27%, and 39%, respectively of method 8270D in sample MW-09A, but above the expanded lower acceptance limit (10%) specified in the NFG, 2020. Associated results are qualified as estimated (UJ). TCX recovered low (39% and 36%) below the lower laboratory control limit of 40% of method 8081B/8082A in sample MW-09A and Field Duplicate 1, respectively. However, this surrogate is not associated with the target analytes; therefore, no qualification is required. DCB recovered low (13%) below the lower laboratory control limit of 14% of method 8081B/8082A in Field Duplicate 1. Associated results are qualified UJ because recovery was above the expanded lower acceptance limit of 10% specified in NFG, 2020. Decachlorobiphenyl (DCB) recovered low (below the lab standard of 14% and below the expanded lower acceptance limit of 10%) for sample MW-20AF (9%) for Aroclor analysis by 8081B/8082A. A strict interpretation of the NFG would reject these non-detect results of PCB</u>

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Aroclors; however, the results were qualified as estimated (UJ) based on professional judgement and the following lines of evidence: 1. These sample results are in line with expected results as PCB Aroclors have never been detected in the filtered sample collected at MW-20A. 2. The unfiltered sample collected at MW-20A during this sampling event was also non-detect for all PCB Aroclors. Decachlorobiphenyl (DCB) recovered low (below the lab standard of 14% and below the expanded lower acceptance limit of 10%) for sample OW-22F (9%) for Aroclor analysis by 8081B/8082A. A strict interpretation of the NFG would reject these non-detect results of PCB Aroclors; however, the results were qualified as estimated (UJ) based on professional judgement and the following lines of evidence: 1. These sample results are in line with expected results, all PCB aroclors have never been detected in the filtered sample collected at OW-22. 2. The unfiltered sample collected at OW-22 during this sampling event was also non-detect for all PCB Aroclors.

- b) Were surrogate recoveries not calculated due to dilutions? ☐ ☐ ☒ _____

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
OW-22	Chlorobenzene	<1.0 ug/L	UJ	Analyzed outside holding time
MW-09A	1,2-Dichlorobenzene	<10 ug/L	UJ	Surrogates Nitrobenzene-d5, Phenol-d5, and 2,4,6-Tribromophenol recovered low.
MW-09A	1,4-Dichlorobenzene	<10 ug/L	UJ	Surrogates Nitrobenzene-d5, Phenol-d5, and 2,4,6-Tribromophenol recovered low.
MW-09A	4-Nitrophenol	<25 ug/L	UJ	Surrogates Nitrobenzene-d5, Phenol-d5, and 2,4,6-Tribromophenol recovered low.
MW-09A	o,o,o-Triethylphosphorothioate	<10 ug/L	UJ	Surrogates Nitrobenzene-d5, Phenol-d5, and 2,4,6-Tribromophenol recovered low.
MW-20AF	PCB-1016	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits
MW-20AF	PCB-1221	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits
MW-20AF	PCB-1232	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits
MW-20AF	PCB-1242	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits
MW-20AF	PCB-1248	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits
MW-20AF	PCB-1254	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits
MW-20AF	PCB-1260	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits
MW-20AF	PCB-1268	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits
Field Duplicate 1	PCB-1016	<0.5 ug/L	UJ	Low DCB surrogate recovery
Field Duplicate 1	PCB-1221	<0.5 ug/L	UJ	Low DCB surrogate recovery
Field Duplicate 1	PCB-1232	<0.5 ug/L	UJ	Low DCB surrogate recovery
Field Duplicate 1	PCB-1242	<0.5 ug/L	UJ	Low DCB surrogate recovery

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Field Duplicate 1	PCB-1248	<0.5 ug/L	UJ	Low DCB surrogate recovery
Field Duplicate 1	PCB-1254	<0.5 ug/L	UJ	Low DCB surrogate recovery
Field Duplicate 1	PCB-1260	<0.5 ug/L	UJ	Low DCB surrogate recovery
Field Duplicate 1	PCB-1268	<0.5 ug/L	UJ	Low DCB surrogate recovery
OW-22F	PCB-1016	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits
OW-22F	PCB-1221	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits
OW-22F	PCB-1232	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits
OW-22F	PCB-1242	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits
OW-22F	PCB-1248	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits
OW-22F	PCB-1254	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits
OW-22F	PCB-1260	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits
OW-22F	PCB-1268	<0.5 ug/L	UJ	Low DCB surrogate recovery below expanded lower acceptance limits

Signature: _____

Jessica Adams

Date: 8/16/2023 _____

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc.

Project Manager: Noel Savoie

Project Name: RCRA Groundwater Monitoring

Project Number: 680-233641-1

Reviewer: Jessica Alanis

Validation Date: 08/16/2023

Laboratory: Eurofins TestAmerica Savannah

SDG #: 680-233641-1

Analytical Method (type and no.): Metals (6010D), Mercury (7470A)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐

Sample Names: MW-08, MW-09, MW-20A, Field Duplicate 1, OW-22, OW-22F

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?	☒	☐	☐	<u>Field Duplicate 1 (original sample - MW-20A)</u>
g) Field parameters collected (note types)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
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 = Field Duplicate 1 _____
b) Were field dup. precision criteria met (note RPD)?	☒	☐	☐	MW-20A and Field Duplicate results all ND _____
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?	☐	☒	☐	Mercury recovered low (74%) below the lower laboratory control limit of 80%. Non-detect results of Mercury in associated samples (MW-20A and Field Duplicate 1) are qualified as estimated (UJ). _____
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	_____
b) Was MSD accuracy criteria met?	☐	☒	☐	Mercury recovered low (73%) below the lower laboratory control limit of 80%. Non-detect results of Mercury in associated samples (MW-20A and Field Duplicate 1) are qualified as estimated (UJ). _____
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	_____
c) Were MS/MSD precision criteria met?	☒	☐	☐	All MS/MSD RPDs < 2% _____

Comments/Notes:

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
MW-20A	Mercury	<0.2 ug/L	UJ	MS/MSD recoveries below lower control limits
Field Duplicate 1	Mercury	<0.2 ug/L	UJ	MS/MSD recoveries below lower control limits

Signature: 

Date: 08/16/2023

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

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JOB DESCRIPTION

Anniston RCRA 2023

JOB NUMBER

680-233641-1

Eurofins Savannah

Job Notes

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Authorization



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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

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.
α	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

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Job ID: 680-233641-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-233641-1

Receipt

The samples were received on 4/15/2023 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.1°C, 1.6°C, 1.9°C, 2.8°C, 4.9°C and 5.9°C

GC/MS VOA

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batches 680-775141 and 680-780338.

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 for the following sample was outside acceptance limits: MW-09A (680-233641-2). The results have been reported since three surrogates pass.

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 above or in the Definitions/ Glossary page.

Pesticides/PCBs

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: MW-09A (680-233641-2). These results have been reported and qualified.

Method 8081B_8082A: Surrogate recovery for the following sample was outside of acceptance limits: Field Duplicate 1 (680-233641-5). There was insufficient sample to perform a re-extraction; therefore, the data has been qualified and reported. The second bottle was inadvertently broken in lab.

Method 8081B_8082A: Surrogate recovery for the following samples were outside control limits: MW-20AF (680-233641-4) and OW-22F (680-233641-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B_8082A: The matrix spike/matrix spike duplicate (MS/MSD) associated with prep batch 680-777299 and analytical batch 680-777396 recovered outside advisory control limits for PCB-1016 and PCB-1260. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) met acceptance criteria; therefore, the 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

Method 7470A: The matrix spike/matrix spike duplicate (MS/MSD) associated with prep batch 680-773851 and analytical batch 680-774093 recovered outside advisory control limits for Mercury. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) met acceptance criteria; therefore, the 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.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-233641-1	MW-08	Water	04/14/23 17:00	04/15/23 08:45
680-233641-2	MW-09A	Water	04/14/23 15:49	04/15/23 08:45
680-233641-3	MW-20A	Water	04/14/23 10:05	04/15/23 08:45
680-233641-4	MW-20AF	Water	04/14/23 10:05	04/15/23 08:45
680-233641-5	Field Duplicate 1	Water	04/14/23 00:00	04/15/23 08:45
680-233641-6	OW-22	Water	04/14/23 18:03	04/15/23 08:45
680-233641-7	OW-22F	Water	04/14/23 18:03	04/15/23 08:45
680-233641-8	Trip Blank 20230413	Water	04/14/23 08:00	04/15/23 08:45

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Client Sample ID: MW-08

Lab Sample ID: 680-233641-1

No Detections.

Client Sample ID: MW-09A

Lab Sample ID: 680-233641-2

No Detections.

Client Sample ID: MW-20A

Lab Sample ID: 680-233641-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	2.0		1.0	0.15	ug/L	1		8260D	Total/NA
Pentachlorophenol	5.0		1.0	0.97	ug/L	1		8270D SIM	Total/NA
o,o',o"-Triethylphosphorothioate	38		10	0.97	ug/L	1		8270D	Total/NA

Client Sample ID: MW-20AF

Lab Sample ID: 680-233641-4

No Detections.

Client Sample ID: Field Duplicate 1

Lab Sample ID: 680-233641-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	2.0		1.0	0.15	ug/L	1		8260D	Total/NA
Pentachlorophenol	5.5		1.0	0.96	ug/L	1		8270D SIM	Total/NA
o,o',o"-Triethylphosphorothioate	41		10	0.96	ug/L	1		8270D	Total/NA

Client Sample ID: OW-22

Lab Sample ID: 680-233641-6

No Detections.

Client Sample ID: OW-22F

Lab Sample ID: 680-233641-7

No Detections.

Client Sample ID: Trip Blank 20230413

Lab Sample ID: 680-233641-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Client Sample ID: MW-08

Date Collected: 04/14/23 17:00

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/26/23 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/26/23 15:02	1
1,2-Dichloroethane-d4 (Surr)	97		60 - 124					04/26/23 15:02	1
Dibromofluoromethane (Surr)	100		70 - 130					04/26/23 15:02	1
4-Bromofluorobenzene (Surr)	93		70 - 130					04/26/23 15:02	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.51	ug/L		04/21/23 20:00	04/28/23 19:55	1
1,4-Dichlorobenzene	<10		10	0.52	ug/L		04/21/23 20:00	04/28/23 19:55	1
4-Nitrophenol	<25		25	1.8	ug/L		04/21/23 20:00	04/28/23 19:55	1
o,o',o"-Triethylphosphorothioate	<10		10	0.96	ug/L		04/21/23 20:00	04/28/23 19:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		32 - 113				04/21/23 20:00	04/28/23 19:55	1
2-Fluorophenol	37		26 - 109				04/21/23 20:00	04/28/23 19:55	1
Nitrobenzene-d5	49		32 - 118				04/21/23 20:00	04/28/23 19:55	1
Phenol-d5	38		27 - 110				04/21/23 20:00	04/28/23 19:55	1
Terphenyl-d14	62		10 - 126				04/21/23 20:00	04/28/23 19:55	1
2,4,6-Tribromophenol	69		39 - 124				04/21/23 20:00	04/28/23 19:55	1

Method: SW846 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		05/05/23 21:00	05/07/23 19:08	1
PCB-1221	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 19:08	1
PCB-1232	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 19:08	1
PCB-1242	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 19:08	1
PCB-1248	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 19:08	1
PCB-1254	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 19:08	1
PCB-1260	<0.50		0.50	0.057	ug/L		05/05/23 21:00	05/07/23 19:08	1
PCB-1268	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	38		14 - 130				05/05/23 21:00	05/07/23 19:08	1
Tetrachloro-m-xylene	42		40 - 130				05/05/23 21:00	05/07/23 19:08	1

Method: SW846 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		04/21/23 15:27	04/26/23 22:07	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.17	ug/L		04/21/23 15:27	04/26/23 22:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	68		60 - 154				04/21/23 15:27	04/26/23 22:07	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/17/23 11:22	04/18/23 20:48	1

Eurofins Savannah

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Client Sample ID: MW-08

Date Collected: 04/14/23 17:00

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-1

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/18/23 06:47	04/18/23 13:56	1

Client Sample ID: MW-09A

Date Collected: 04/14/23 15:49

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-2

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/26/23 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/26/23 15:24	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 124		04/26/23 15:24	1
Dibromofluoromethane (Surr)	100		70 - 130		04/26/23 15:24	1
4-Bromofluorobenzene (Surr)	95		70 - 130		04/26/23 15:24	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.51	ug/L		04/21/23 20:00	04/28/23 20:18	1
1,4-Dichlorobenzene	<10		10	0.52	ug/L		04/21/23 20:00	04/28/23 20:18	1
4-Nitrophenol	<25		25	1.8	ug/L		04/21/23 20:00	04/28/23 20:18	1
o,o',o"-Triethylphosphorothioate	<10		10	0.96	ug/L		04/21/23 20:00	04/28/23 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	32		32 - 113	04/21/23 20:00	04/28/23 20:18	1
2-Fluorophenol	26		26 - 109	04/21/23 20:00	04/28/23 20:18	1
Nitrobenzene-d5	30	S1-	32 - 118	04/21/23 20:00	04/28/23 20:18	1
Phenol-d5	15	S1-	27 - 110	04/21/23 20:00	04/28/23 20:18	1
Terphenyl-d14	32		10 - 126	04/21/23 20:00	04/28/23 20:18	1
2,4,6-Tribromophenol	37	S1-	39 - 124	04/21/23 20:00	04/28/23 20:18	1

Method: SW846 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		05/05/23 21:00	05/07/23 17:50	1
PCB-1221	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 17:50	1
PCB-1232	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 17:50	1
PCB-1242	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 17:50	1
PCB-1248	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 17:50	1
PCB-1254	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 17:50	1
PCB-1260	<0.50		0.50	0.058	ug/L		05/05/23 21:00	05/07/23 17:50	1
PCB-1268	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	29		14 - 130	05/05/23 21:00	05/07/23 17:50	1
Tetrachloro-m-xylene	39	S1-	40 - 130	05/05/23 21:00	05/07/23 17:50	1

Method: SW846 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		04/21/23 15:27	04/26/23 22:46	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.16	ug/L		04/21/23 15:27	04/26/23 22:46	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Client Sample ID: MW-09A

Date Collected: 04/14/23 15:49

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	81		60 - 154	04/21/23 15:27	04/26/23 22:46	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/17/23 11:22	04/18/23 20:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/18/23 06:47	04/18/23 13:57	1

Client Sample ID: MW-20A

Date Collected: 04/14/23 10:05

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	2.0		1.0	0.15	ug/L			04/26/23 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/26/23 16:51	1
1,2-Dichloroethane-d4 (Surr)	98		60 - 124		04/26/23 16:51	1
Dibromofluoromethane (Surr)	101		70 - 130		04/26/23 16:51	1
4-Bromofluorobenzene (Surr)	92		70 - 130		04/26/23 16:51	1

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	5.0		1.0	0.97	ug/L		04/21/23 20:00	05/23/23 18:11	1

Method: SW846 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		04/21/23 20:00	04/28/23 17:34	1
o,o',o"-Triethylphosphorothioate	38		10	0.97	ug/L		04/21/23 20:00	04/28/23 17:34	1
2,4,6-Trichlorophenol	<10		10	0.82	ug/L		04/21/23 20:00	04/28/23 17:34	1
Pentachlorophenol	<50		50	1.9	ug/L		04/21/23 20:00	04/28/23 17:34	1
1,2-Dichlorobenzene	<10		10	0.51	ug/L		04/21/23 20:00	04/28/23 17:34	1
1,4-Dichlorobenzene	<10		10	0.52	ug/L		04/21/23 20:00	04/28/23 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	48		32 - 113	04/21/23 20:00	04/28/23 17:34	1
2-Fluorophenol	36		26 - 109	04/21/23 20:00	04/28/23 17:34	1
Nitrobenzene-d5	49		32 - 118	04/21/23 20:00	04/28/23 17:34	1
Phenol-d5	38		27 - 110	04/21/23 20:00	04/28/23 17:34	1
Terphenyl-d14	57		10 - 126	04/21/23 20:00	04/28/23 17:34	1
2,4,6-Tribromophenol	70		39 - 124	04/21/23 20:00	04/28/23 17:34	1

Method: SW846 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	F1	0.50	0.087	ug/L		05/05/23 21:00	05/07/23 18:06	1
PCB-1221	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 18:06	1
PCB-1232	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 18:06	1
PCB-1242	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 18:06	1
PCB-1248	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 18:06	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Client Sample ID: MW-20A

Date Collected: 04/14/23 10:05

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-3

Matrix: Water

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 18:06	1
PCB-1260	<0.50	F1	0.50	0.058	ug/L		05/05/23 21:00	05/07/23 18:06	1
PCB-1268	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	14	p	14 - 130				05/05/23 21:00	05/07/23 18:06	1
Tetrachloro-m-xylene	51		40 - 130				05/05/23 21:00	05/07/23 18:06	1

Method: SW846 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		04/21/23 15:27	04/26/23 23:25	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.16	ug/L		04/21/23 15:27	04/26/23 23:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	66		60 - 154				04/21/23 15:27	04/26/23 23:25	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/17/23 11:22	04/18/23 19:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	F1	0.00020	0.000080	mg/L		04/18/23 06:47	04/18/23 14:02	1

Client Sample ID: MW-20AF

Date Collected: 04/14/23 10:05

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-4

Matrix: Water

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 18:22	1
PCB-1221, Dissolved	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 18:22	1
PCB-1232, Dissolved	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 18:22	1
PCB-1242, Dissolved	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 18:22	1
PCB-1248, Dissolved	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 18:22	1
PCB-1254, Dissolved	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 18:22	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		05/05/23 21:00	05/07/23 18:22	1
PCB-1268, Dissolved	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	9	S1-	14 - 130				05/05/23 21:00	05/07/23 18:22	1
Tetrachloro-m-xylene	40	p	40 - 130				05/05/23 21:00	05/07/23 18:22	1

Client Sample ID: Field Duplicate 1

Date Collected: 04/14/23 00:00

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-5

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	2.0		1.0	0.15	ug/L			04/26/23 12:51	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Client Sample ID: Field Duplicate 1

Lab Sample ID: 680-233641-5

Date Collected: 04/14/23 00:00

Matrix: Water

Date Received: 04/15/23 08:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/26/23 12:51	1
1,2-Dichloroethane-d4 (Surr)	99		60 - 124		04/26/23 12:51	1
Dibromofluoromethane (Surr)	98		70 - 130		04/26/23 12:51	1
4-Bromofluorobenzene (Surr)	94		70 - 130		04/26/23 12:51	1

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	5.5		1.0	0.96	ug/L		04/21/23 20:00	05/23/23 18:35	1

Method: SW846 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		04/21/23 20:00	04/28/23 20:42	1
o,o',o"-Triethylphosphorothioate	41		10	0.96	ug/L		04/21/23 20:00	04/28/23 20:42	1
2,4,6-Trichlorophenol	<10		10	0.81	ug/L		04/21/23 20:00	04/28/23 20:42	1
Pentachlorophenol	<50		50	1.9	ug/L		04/21/23 20:00	04/28/23 20:42	1
1,2-Dichlorobenzene	<10		10	0.51	ug/L		04/21/23 20:00	04/28/23 20:42	1
1,4-Dichlorobenzene	<10		10	0.52	ug/L		04/21/23 20:00	04/28/23 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		32 - 113	04/21/23 20:00	04/28/23 20:42	1
2-Fluorophenol	41		26 - 109	04/21/23 20:00	04/28/23 20:42	1
Nitrobenzene-d5	56		32 - 118	04/21/23 20:00	04/28/23 20:42	1
Phenol-d5	41		27 - 110	04/21/23 20:00	04/28/23 20:42	1
Terphenyl-d14	55		10 - 126	04/21/23 20:00	04/28/23 20:42	1
2,4,6-Tribromophenol	78		39 - 124	04/21/23 20:00	04/28/23 20:42	1

Method: SW846 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		05/05/23 21:00	05/07/23 18:38	1
PCB-1221	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 18:38	1
PCB-1232	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 18:38	1
PCB-1242	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 18:38	1
PCB-1248	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 18:38	1
PCB-1254	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 18:38	1
PCB-1260	<0.50		0.50	0.059	ug/L		05/05/23 21:00	05/07/23 18:38	1
PCB-1268	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	13	S1-	14 - 130	05/05/23 21:00	05/07/23 18:38	1
Tetrachloro-m-xylene	36	S1-	40 - 130	05/05/23 21:00	05/07/23 18:38	1

Method: SW846 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		04/21/23 15:27	04/27/23 01:22	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.16	ug/L		04/21/23 15:27	04/27/23 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	69		60 - 154	04/21/23 15:27	04/27/23 01:22	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/17/23 11:22	04/18/23 20:55	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Client Sample ID: Field Duplicate 1

Date Collected: 04/14/23 00:00

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-5

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/18/23 06:47	04/18/23 14:07	1

Client Sample ID: OW-22

Date Collected: 04/14/23 18:03

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-6

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			05/25/23 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		70 - 130		05/25/23 14:29	1
1,2-Dichloroethane-d4 (Surr)	96		60 - 124		05/25/23 14:29	1
Dibromofluoromethane (Surr)	103		70 - 130		05/25/23 14:29	1
4-Bromofluorobenzene (Surr)	98		70 - 130		05/25/23 14:29	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.51	ug/L		04/21/23 20:00	04/28/23 21:05	1
1,4-Dichlorobenzene	<10		10	0.52	ug/L		04/21/23 20:00	04/28/23 21:05	1
4-Nitrophenol	<25		25	1.8	ug/L		04/21/23 20:00	04/28/23 21:05	1
o,o',o"-Triethylphosphorothioate	<10		10	0.95	ug/L		04/21/23 20:00	04/28/23 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		32 - 113	04/21/23 20:00	04/28/23 21:05	1
2-Fluorophenol	52		26 - 109	04/21/23 20:00	04/28/23 21:05	1
Nitrobenzene-d5	56		32 - 118	04/21/23 20:00	04/28/23 21:05	1
Phenol-d5	48		27 - 110	04/21/23 20:00	04/28/23 21:05	1
Terphenyl-d14	65		10 - 126	04/21/23 20:00	04/28/23 21:05	1
2,4,6-Tribromophenol	71		39 - 124	04/21/23 20:00	04/28/23 21:05	1

Method: SW846 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		05/05/23 21:00	05/07/23 18:54	1
PCB-1221	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 18:54	1
PCB-1232	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 18:54	1
PCB-1242	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 18:54	1
PCB-1248	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 18:54	1
PCB-1254	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 18:54	1
PCB-1260	<0.50		0.50	0.057	ug/L		05/05/23 21:00	05/07/23 18:54	1
PCB-1268	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	43		14 - 130	05/05/23 21:00	05/07/23 18:54	1
Tetrachloro-m-xylene	63		40 - 130	05/05/23 21:00	05/07/23 18:54	1

Method: SW846 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		04/21/23 15:27	04/27/23 02:01	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.17	ug/L		04/21/23 15:27	04/27/23 02:01	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Client Sample ID: OW-22

Date Collected: 04/14/23 18:03

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-6

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	67		60 - 154	04/21/23 15:27	04/27/23 02:01	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/17/23 11:22	04/18/23 20:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/18/23 06:47	04/18/23 14:08	1

Client Sample ID: OW-22F

Date Collected: 04/14/23 18:03

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-7

Matrix: Water

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.091	ug/L		05/05/23 21:00	05/07/23 19:10	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/05/23 21:00	05/07/23 19:10	1
PCB-1232, Dissolved	<0.50		0.50	0.091	ug/L		05/05/23 21:00	05/07/23 19:10	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/05/23 21:00	05/07/23 19:10	1
PCB-1248, Dissolved	<0.50		0.50	0.091	ug/L		05/05/23 21:00	05/07/23 19:10	1
PCB-1254, Dissolved	<0.50		0.50	0.091	ug/L		05/05/23 21:00	05/07/23 19:10	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		05/05/23 21:00	05/07/23 19:10	1
PCB-1268, Dissolved	<0.50		0.50	0.091	ug/L		05/05/23 21:00	05/07/23 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	9	S1-	14 - 130	05/05/23 21:00	05/07/23 19:10	1
Tetrachloro-m-xylene	51		40 - 130	05/05/23 21:00	05/07/23 19:10	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/17/23 11:22	04/18/23 20:51	1

Method: SW846 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		04/18/23 06:47	04/18/23 14:10	1

Client Sample ID: Trip Blank 20230413

Date Collected: 04/14/23 08:00

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-8

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/25/23 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/25/23 15:21	1
1,2-Dichloroethane-d4 (Surr)	81		60 - 124		04/25/23 15:21	1
Dibromofluoromethane (Surr)	92		70 - 130		04/25/23 15:21	1
4-Bromofluorobenzene (Surr)	105		70 - 130		04/25/23 15:21	1

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Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (70-130)	DCA (60-124)	DBFM (70-130)	BFB (70-130)
680-233641-1	MW-08	98	97	100	93
680-233641-2	MW-09A	100	100	100	95
680-233641-3	MW-20A	97	98	101	92
680-233641-3 MS	MW-20A	96	97	98	90
680-233641-3 MSD	MW-20A	94	99	99	92
680-233641-5	Field Duplicate 1	97	99	98	94
680-233641-6	OW-22	106	96	103	98
680-233641-8	Trip Blank 20230413	97	81	92	105
LCS 680-775141/5	Lab Control Sample	102	91	97	103
LCS 680-775352/4	Lab Control Sample	96	100	102	92
LCS 680-780338/5	Lab Control Sample	105	93	100	95
LCSD 680-775141/6	Lab Control Sample Dup	100	88	95	107
LCSD 680-775352/5	Lab Control Sample Dup	98	102	100	97
LCSD 680-780338/6	Lab Control Sample Dup	104	93	100	96
MB 680-775141/9	Method Blank	96	81	90	107
MB 680-775352/8	Method Blank	95	95	95	94
MB 680-780338/9	Method Blank	106	95	100	98

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (32-113)	2FP (26-109)	NBZ (32-118)	PHL (27-110)	TPHL (10-126)	TBP (39-124)
680-233641-1	MW-08	52	37	49	38	62	69
680-233641-2	MW-09A	32	26	30 S1-	15 S1-	32	37 S1-
680-233641-3	MW-20A	48	36	49	38	57	70
680-233641-3 MS	MW-20A	62	56	68	59	71	83
680-233641-3 MS	MW-20A	60	50	65	43	64	70
680-233641-3 MSD	MW-20A	51	40	50	40	67	71
680-233641-3 MSD	MW-20A	61	48	60	49	56	86
680-233641-5	Field Duplicate 1	57	41	56	41	55	78
680-233641-6	OW-22	62	52	56	48	65	71
LCS 680-774742/16-A	Lab Control Sample	62	47	56	46	79	75
LCS 680-774742/19-A	Lab Control Sample	73	53	67	56	76	80
MB 680-774742/15-A	Method Blank	75	47	67	41	79	80

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

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Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

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)	TCX2 (40-130)
680-233641-1	MW-08	38	42
680-233641-2	MW-09A	29	39 S1-
680-233641-6	OW-22	43	63
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	DCBP1 (14-130)	TCX2 (40-130)
680-233641-3	MW-20A	14 p	51
680-233641-3 MS	MW-20A	17 p	51
680-233641-3 MSD	MW-20A	21 p	49
680-233641-5	Field Duplicate 1	13 S1-	36 S1-
LCS 680-777299/22-A	Lab Control Sample	62	63
MB 680-777299/21-A	Method Blank	42	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: Dissolved

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (14-130)	TCX1 (40-130)
680-233641-4	MW-20AF	9 S1-	40 p
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)	
Lab Sample ID	Client Sample ID	DCBP2 (14-130)	TCX2 (40-130)
680-233641-7	OW-22F	9 S1-	51
Surrogate Legend			
DCBP = DCB Decachlorobiphenyl			
TCX = Tetrachloro-m-xylene			

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Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

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)
680-233641-1	MW-08	68
680-233641-2	MW-09A	81
680-233641-3	MW-20A	66
680-233641-3 MS	MW-20A	83
680-233641-3 MSD	MW-20A	85
680-233641-5	Field Duplicate 1	69
680-233641-6	OW-22	67
LCS 280-609684/2-A	Lab Control Sample	76
MB 280-609684/1-A	Method Blank	70

Surrogate Legend

TPP = Triphenylphosphate

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-775141/9

Matrix: Water

Analysis Batch: 775141

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	0.15	ug/L			04/25/23 14:29	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130					04/25/23 14:29	1
1,2-Dichloroethane-d4 (Surr)	81		60 - 124					04/25/23 14:29	1
Dibromofluoromethane (Surr)	90		70 - 130					04/25/23 14:29	1
4-Bromofluorobenzene (Surr)	107		70 - 130					04/25/23 14:29	1

Lab Sample ID: LCS 680-775141/5

Matrix: Water

Analysis Batch: 775141

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	52.0		ug/L		104	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	102		70 - 130				
1,2-Dichloroethane-d4 (Surr)	91		60 - 124				
Dibromofluoromethane (Surr)	97		70 - 130				
4-Bromofluorobenzene (Surr)	103		70 - 130				

Lab Sample ID: LCSD 680-775141/6

Matrix: Water

Analysis Batch: 775141

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	52.1		ug/L		104	70 - 130	0	30
Surrogate	%Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	100		70 - 130						
1,2-Dichloroethane-d4 (Surr)	88		60 - 124						
Dibromofluoromethane (Surr)	95		70 - 130						
4-Bromofluorobenzene (Surr)	107		70 - 130						

Lab Sample ID: MB 680-775352/8

Matrix: Water

Analysis Batch: 775352

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	0.15	ug/L			04/26/23 10:54	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130					04/26/23 10:54	1
1,2-Dichloroethane-d4 (Surr)	95		60 - 124					04/26/23 10:54	1
Dibromofluoromethane (Surr)	95		70 - 130					04/26/23 10:54	1
4-Bromofluorobenzene (Surr)	94		70 - 130					04/26/23 10:54	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-775352/4

Matrix: Water

Analysis Batch: 775352

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	46.9		ug/L		94	70 - 130		
Surrogate	%Recovery	LCS Qualifier	Limits								
Toluene-d8 (Surr)	96		70 - 130								
1,2-Dichloroethane-d4 (Surr)	100		60 - 124								
Dibromofluoromethane (Surr)	102		70 - 130								
4-Bromofluorobenzene (Surr)	92		70 - 130								

Lab Sample ID: LCSD 680-775352/5

Matrix: Water

Analysis Batch: 775352

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	45.9		ug/L		92	70 - 130	2	30
Surrogate	%Recovery	LCSD Qualifier	Limits								
Toluene-d8 (Surr)	98		70 - 130								
1,2-Dichloroethane-d4 (Surr)	102		60 - 124								
Dibromofluoromethane (Surr)	100		70 - 130								
4-Bromofluorobenzene (Surr)	97		70 - 130								

Lab Sample ID: 680-233641-3 MS

Matrix: Water

Analysis Batch: 775352

Client Sample ID: MW-20A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorobenzene	2.0		50.0	48.3		ug/L		93	70 - 130		
Surrogate	%Recovery	MS Qualifier	Limits								
Toluene-d8 (Surr)	96		70 - 130								
1,2-Dichloroethane-d4 (Surr)	97		60 - 124								
Dibromofluoromethane (Surr)	98		70 - 130								
4-Bromofluorobenzene (Surr)	90		70 - 130								

Lab Sample ID: 680-233641-3 MSD

Matrix: Water

Analysis Batch: 775352

Client Sample ID: MW-20A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene	2.0		50.0	48.0		ug/L		92	70 - 130	1	30
Surrogate	%Recovery	MSD Qualifier	Limits								
Toluene-d8 (Surr)	94		70 - 130								
1,2-Dichloroethane-d4 (Surr)	99		60 - 124								
Dibromofluoromethane (Surr)	99		70 - 130								
4-Bromofluorobenzene (Surr)	92		70 - 130								

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-780338/9

Matrix: Water

Analysis Batch: 780338

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	0.15	ug/L			05/25/23 12:46	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		70 - 130					05/25/23 12:46	1
1,2-Dichloroethane-d4 (Surr)	95		60 - 124					05/25/23 12:46	1
Dibromofluoromethane (Surr)	100		70 - 130					05/25/23 12:46	1
4-Bromofluorobenzene (Surr)	98		70 - 130					05/25/23 12:46	1

Lab Sample ID: LCS 680-780338/5

Matrix: Water

Analysis Batch: 780338

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	52.0		ug/L		104	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	105		70 - 130				
1,2-Dichloroethane-d4 (Surr)	93		60 - 124				
Dibromofluoromethane (Surr)	100		70 - 130				
4-Bromofluorobenzene (Surr)	95		70 - 130				

Lab Sample ID: LCSD 680-780338/6

Matrix: Water

Analysis Batch: 780338

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	70 - 130	1	30
Surrogate	%Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	104		70 - 130						
1,2-Dichloroethane-d4 (Surr)	93		60 - 124						
Dibromofluoromethane (Surr)	100		70 - 130						
4-Bromofluorobenzene (Surr)	96		70 - 130						

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-774742/15-A

Matrix: Water

Analysis Batch: 775843

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 774742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		04/21/23 20:00	04/28/23 14:49	1
o,o',o"-Triethylphosphorothioate	<10		10	1.0	ug/L		04/21/23 20:00	04/28/23 14:49	1
2,4,6-Trichlorophenol	<10		10	0.85	ug/L		04/21/23 20:00	04/28/23 14:49	1
Pentachlorophenol	<50		50	2.0	ug/L		04/21/23 20:00	04/28/23 14:49	1
1,2-Dichlorobenzene	<10		10	0.53	ug/L		04/21/23 20:00	04/28/23 14:49	1
1,4-Dichlorobenzene	<10		10	0.54	ug/L		04/21/23 20:00	04/28/23 14:49	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-774742/15-A

Matrix: Water

Analysis Batch: 775843

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 774742

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		32 - 113	04/21/23 20:00	04/28/23 14:49	1
2-Fluorophenol	47		26 - 109	04/21/23 20:00	04/28/23 14:49	1
Nitrobenzene-d5	67		32 - 118	04/21/23 20:00	04/28/23 14:49	1
Phenol-d5	41		27 - 110	04/21/23 20:00	04/28/23 14:49	1
Terphenyl-d14	79		10 - 126	04/21/23 20:00	04/28/23 14:49	1
2,4,6-Tribromophenol	80		39 - 124	04/21/23 20:00	04/28/23 14:49	1

Lab Sample ID: LCS 680-774742/16-A

Matrix: Water

Analysis Batch: 775843

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitrophenol	200	209		ug/L		105	44 - 130
2,4,6-Trichlorophenol	100	84.6		ug/L		85	47 - 130
Pentachlorophenol	200	172		ug/L		86	33 - 130
1,2-Dichlorobenzene	100	59.7		ug/L		60	31 - 130
1,4-Dichlorobenzene	100	57.4		ug/L		57	31 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	62		32 - 113
2-Fluorophenol	47		26 - 109
Nitrobenzene-d5	56		32 - 118
Phenol-d5	46		27 - 110
Terphenyl-d14	79		10 - 126
2,4,6-Tribromophenol	75		39 - 124

Lab Sample ID: LCS 680-774742/19-A

Matrix: Water

Analysis Batch: 775843

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o"-Triethylphosphorothioate	100	95.6		ug/L		96	23 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	73		32 - 113
2-Fluorophenol	53		26 - 109
Nitrobenzene-d5	67		32 - 118
Phenol-d5	56		27 - 110
Terphenyl-d14	76		10 - 126
2,4,6-Tribromophenol	80		39 - 124

Lab Sample ID: 680-233641-3 MS

Matrix: Water

Analysis Batch: 775843

Client Sample ID: MW-20A

Prep Type: Total/NA

Prep Batch: 774742

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o"-Triethylphosphorothioate	38		95.4	132		ug/L		99	23 - 130

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-233641-3 MS

Matrix: Water

Analysis Batch: 775843

Client Sample ID: MW-20A

Prep Type: Total/NA

Prep Batch: 774742

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	62		32 - 113
2-Fluorophenol	56		26 - 109
Nitrobenzene-d5	68		32 - 118
Phenol-d5	59		27 - 110
Terphenyl-d14	71		10 - 126
2,4,6-Tribromophenol	83		39 - 124

Lab Sample ID: 680-233641-3 MS

Matrix: Water

Analysis Batch: 776788

Client Sample ID: MW-20A

Prep Type: Total/NA

Prep Batch: 774742

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitrophenol	<25		195	197		ug/L		101	44 - 130
2,4,6-Trichlorophenol	<10		97.3	82.5		ug/L		84	47 - 130
Pentachlorophenol	<50		195	203		ug/L		100	33 - 130
1,2-Dichlorobenzene	<10		97.3	60.3		ug/L		60	31 - 130
1,4-Dichlorobenzene	<10		97.3	57.4		ug/L		58	31 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	60		32 - 113
2-Fluorophenol	50		26 - 109
Nitrobenzene-d5	65		32 - 118
Phenol-d5	43		27 - 110
Terphenyl-d14	64		10 - 126
2,4,6-Tribromophenol	70		39 - 124

Lab Sample ID: 680-233641-3 MSD

Matrix: Water

Analysis Batch: 775843

Client Sample ID: MW-20A

Prep Type: Total/NA

Prep Batch: 774742

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol	<25		195	215		ug/L		110	44 - 130	9	50
2,4,6-Trichlorophenol	<10		97.6	74.3		ug/L		75	47 - 130	11	50
Pentachlorophenol	<50		195	184		ug/L		90	33 - 130	10	50
1,2-Dichlorobenzene	<10		97.6	50.9		ug/L		50	31 - 130	17	50
1,4-Dichlorobenzene	<10		97.6	49.4		ug/L		50	31 - 130	15	50

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	51		32 - 113
2-Fluorophenol	40		26 - 109
Nitrobenzene-d5	50		32 - 118
Phenol-d5	40		27 - 110
Terphenyl-d14	67		10 - 126
2,4,6-Tribromophenol	71		39 - 124

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-233641-3 MSD

Matrix: Water

Analysis Batch: 775843

Client Sample ID: MW-20A

Prep Type: Total/NA

Prep Batch: 774742

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o,o',o"-Triethylphosphorothioate	38		97.6	124		ug/L		88	23 - 130	7	50
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
2-Fluorobiphenyl	61		32 - 113								
2-Fluorophenol	48		26 - 109								
Nitrobenzene-d5	60		32 - 118								
Phenol-d5	49		27 - 110								
Terphenyl-d14	56		10 - 126								
2,4,6-Tribromophenol	86		39 - 124								

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 680-774742/15-A

Matrix: Water

Analysis Batch: 780049

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 774742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<1.0		1.0	1.0	ug/L		04/21/23 20:00	05/23/23 17:48	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-777299/21-A

Matrix: Water

Analysis Batch: 777396

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1221	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1232	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1242	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1248	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1254	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1260	<0.50		0.50	0.060	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1268	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	42		14 - 130				05/05/23 21:00	05/07/23 17:19	1
Tetrachloro-m-xylene	51		40 - 130				05/05/23 21:00	05/07/23 17:19	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-777299/22-A

Matrix: Water

Analysis Batch: 777396

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	3.00	2.59		ug/L		86	44 - 130
PCB-1016, Dissolved	3.00	2.59		ug/L		86	44 - 130
PCB-1260	3.00	3.31		ug/L		110	35 - 130
PCB-1260, Dissolved	3.00	3.31		ug/L		110	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	62		14 - 130
Tetrachloro-m-xylene	63		40 - 130

Lab Sample ID: 680-233641-3 MS

Matrix: Water

Analysis Batch: 777396

Client Sample ID: MW-20A

Prep Type: Total/NA

Prep Batch: 777299

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.50	F1	2.95	4.02	F1 p	ug/L		136	44 - 130
PCB-1260	<0.50	F1	2.95	5.90	E F1 p	ug/L		200	35 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	17	p	14 - 130
Tetrachloro-m-xylene	51		40 - 130

Lab Sample ID: 680-233641-3 MSD

Matrix: Water

Analysis Batch: 777396

Client Sample ID: MW-20A

Prep Type: Total/NA

Prep Batch: 777299

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.50	F1	2.87	4.59	F1	ug/L		160	44 - 130	13	50
PCB-1260	<0.50	F1	2.87	6.00	E F1 p	ug/L		209	35 - 130	2	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	21	p	14 - 130
Tetrachloro-m-xylene	49		40 - 130

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-609684/1-A

Matrix: Water

Analysis Batch: 610250

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 609684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/21/23 15:27	04/26/23 20:49	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.17	ug/L		04/21/23 15:27	04/26/23 20:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	70		60 - 154	04/21/23 15:27	04/26/23 20:49	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: LCS 280-609684/2-A

Matrix: Water

Analysis Batch: 610250

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 609684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	4.00	3.03		ug/L		76	55 - 107
Tetraethyldithiopyrophosphate	4.00	3.07		ug/L		77	53 - 110
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Triphenylphosphate	76		60 - 154				

Lab Sample ID: 680-233641-3 MS

Matrix: Water

Analysis Batch: 610250

Client Sample ID: MW-20A

Prep Type: Total/NA

Prep Batch: 609684

Analysis Data: 070209										Prep Data: 080809	
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Parathion	<1.0		3.80	3.18		ug/L		84	55 - 107		
Tetraethyldithiopyrophosphate	<1.5		3.80	3.34		ug/L		88	53 - 110		
Surrogate	MS %Recovery	MS Qualifier	Limits								
Triphenylphosphate	83		60 - 154								

Lab Sample ID: 680-233641-3 MSD

Matrix: Water

Analysis Batch: 610250

Client Sample ID: MW-20A

Prep Type: Total/NA

Prep Batch: 609684

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Parathion	<1.0		3.98	3.20		ug/L		80	55 - 107	1	20
Tetraethyldithiopyrophosphate	<1.5		3.98	3.80		ug/L		95	53 - 110	13	27
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Triphenylphosphate	85		60 - 154								

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-773724/1-A

Matrix: Water

Analysis Batch: 774104

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 773724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/17/23 11:22	04/18/23 19:28	1
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/17/23 11:22	04/18/23 19:28	1

Lab Sample ID: LCS 680-773724/2-A

Matrix: Water

Analysis Batch: 774104

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 773724

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.0500	0.0521		mg/L		104	80 - 120
Cobalt, Dissolved	0.0500	0.0521		mg/L		104	80 - 120

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 680-233641-3 MS

Matrix: Water

Analysis Batch: 774104

Client Sample ID: MW-20A

Prep Type: Total Recoverable

Prep Batch: 773724

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	<0.010		0.0500	0.0521		mg/L		100	75 - 125

Lab Sample ID: 680-233641-3 MSD

Matrix: Water

Analysis Batch: 774104

Client Sample ID: MW-20A

Prep Type: Total Recoverable

Prep Batch: 773724

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt	<0.010		0.0500	0.0515		mg/L		99	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-773851/12-A

Matrix: Water

Analysis Batch: 774083

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 773851

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/18/23 06:47	04/18/23 13:43	1
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/18/23 06:47	04/18/23 13:43	1

Lab Sample ID: LCS 680-773851/13-A

Matrix: Water

Analysis Batch: 774083

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 773851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00259		mg/L		104	80 - 120
Mercury, Dissolved	0.00250	0.00259		mg/L		104	80 - 120

Lab Sample ID: 680-233641-3 MS

Matrix: Water

Analysis Batch: 774083

Client Sample ID: MW-20A

Prep Type: Total/NA

Prep Batch: 773851

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020	F1	0.00100	0.000745	F1	mg/L		74	80 - 120

Lab Sample ID: 680-233641-3 MSD

Matrix: Water

Analysis Batch: 774083

Client Sample ID: MW-20A

Prep Type: Total/NA

Prep Batch: 773851

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	0.000728	F1	mg/L		73	80 - 120	2	20

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

GC/MS VOA

Analysis Batch: 775141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-8	Trip Blank 20230413	Total/NA	Water	8260D	
MB 680-775141/9	Method Blank	Total/NA	Water	8260D	
LCS 680-775141/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-775141/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 775352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-1	MW-08	Total/NA	Water	8260D	
680-233641-2	MW-09A	Total/NA	Water	8260D	
680-233641-3	MW-20A	Total/NA	Water	8260D	
680-233641-5	Field Duplicate 1	Total/NA	Water	8260D	
MB 680-775352/8	Method Blank	Total/NA	Water	8260D	
LCS 680-775352/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-775352/5	Lab Control Sample Dup	Total/NA	Water	8260D	
680-233641-3 MS	MW-20A	Total/NA	Water	8260D	
680-233641-3 MSD	MW-20A	Total/NA	Water	8260D	

Analysis Batch: 780338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-6	OW-22	Total/NA	Water	8260D	
MB 680-780338/9	Method Blank	Total/NA	Water	8260D	
LCS 680-780338/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-780338/6	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 774742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-1	MW-08	Total/NA	Water	3520C	
680-233641-2	MW-09A	Total/NA	Water	3520C	
680-233641-3	MW-20A	Total/NA	Water	3520C	
680-233641-5	Field Duplicate 1	Total/NA	Water	3520C	
680-233641-6	OW-22	Total/NA	Water	3520C	
MB 680-774742/15-A	Method Blank	Total/NA	Water	3520C	
LCS 680-774742/16-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-774742/19-A	Lab Control Sample	Total/NA	Water	3520C	
680-233641-3 MS	MW-20A	Total/NA	Water	3520C	
680-233641-3 MS	MW-20A	Total/NA	Water	3520C	
680-233641-3 MSD	MW-20A	Total/NA	Water	3520C	
680-233641-3 MSD	MW-20A	Total/NA	Water	3520C	

Analysis Batch: 775843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-1	MW-08	Total/NA	Water	8270D	774742
680-233641-2	MW-09A	Total/NA	Water	8270D	774742
680-233641-3	MW-20A	Total/NA	Water	8270D	774742
680-233641-5	Field Duplicate 1	Total/NA	Water	8270D	774742
680-233641-6	OW-22	Total/NA	Water	8270D	774742
MB 680-774742/15-A	Method Blank	Total/NA	Water	8270D	774742
LCS 680-774742/16-A	Lab Control Sample	Total/NA	Water	8270D	774742
LCS 680-774742/19-A	Lab Control Sample	Total/NA	Water	8270D	774742

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

GC/MS Semi VOA (Continued)

Analysis Batch: 775843 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-3 MS	MW-20A	Total/NA	Water	8270D	774742
680-233641-3 MSD	MW-20A	Total/NA	Water	8270D	774742
680-233641-3 MSD	MW-20A	Total/NA	Water	8270D	774742

Analysis Batch: 776788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-3 MS	MW-20A	Total/NA	Water	8270D	774742

Analysis Batch: 780049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-3	MW-20A	Total/NA	Water	8270D SIM	774742
680-233641-5	Field Duplicate 1	Total/NA	Water	8270D SIM	774742
MB 680-774742/15-A	Method Blank	Total/NA	Water	8270D SIM	774742

GC Semi VOA

Prep Batch: 609684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-1	MW-08	Total/NA	Water	3510C	
680-233641-2	MW-09A	Total/NA	Water	3510C	
680-233641-3	MW-20A	Total/NA	Water	3510C	
680-233641-5	Field Duplicate 1	Total/NA	Water	3510C	
680-233641-6	OW-22	Total/NA	Water	3510C	
MB 280-609684/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-609684/2-A	Lab Control Sample	Total/NA	Water	3510C	
680-233641-3 MS	MW-20A	Total/NA	Water	3510C	
680-233641-3 MSD	MW-20A	Total/NA	Water	3510C	

Analysis Batch: 610250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-1	MW-08	Total/NA	Water	8141B	609684
680-233641-2	MW-09A	Total/NA	Water	8141B	609684
680-233641-3	MW-20A	Total/NA	Water	8141B	609684
680-233641-5	Field Duplicate 1	Total/NA	Water	8141B	609684
680-233641-6	OW-22	Total/NA	Water	8141B	609684
MB 280-609684/1-A	Method Blank	Total/NA	Water	8141B	609684
LCS 280-609684/2-A	Lab Control Sample	Total/NA	Water	8141B	609684
680-233641-3 MS	MW-20A	Total/NA	Water	8141B	609684
680-233641-3 MSD	MW-20A	Total/NA	Water	8141B	609684

Prep Batch: 777299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-1	MW-08	Total/NA	Water	3520C	
680-233641-2	MW-09A	Total/NA	Water	3520C	
680-233641-3	MW-20A	Total/NA	Water	3520C	
680-233641-4	MW-20AF	Dissolved	Water	3520C	
680-233641-5	Field Duplicate 1	Total/NA	Water	3520C	
680-233641-6	OW-22	Total/NA	Water	3520C	
680-233641-7	OW-22F	Dissolved	Water	3520C	
MB 680-777299/21-A	Method Blank	Total/NA	Water	3520C	
LCS 680-777299/22-A	Lab Control Sample	Total/NA	Water	3520C	

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

GC Semi VOA (Continued)

Prep Batch: 777299 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-3 MS	MW-20A	Total/NA	Water	3520C	
680-233641-3 MSD	MW-20A	Total/NA	Water	3520C	

Analysis Batch: 777396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-2	MW-09A	Total/NA	Water	8081B/8082A	777299
680-233641-3	MW-20A	Total/NA	Water	8081B/8082A	777299
680-233641-4	MW-20AF	Dissolved	Water	8081B/8082A	777299
680-233641-5	Field Duplicate 1	Total/NA	Water	8081B/8082A	777299
680-233641-6	OW-22	Total/NA	Water	8081B/8082A	777299
680-233641-7	OW-22F	Dissolved	Water	8081B/8082A	777299
MB 680-777299/21-A	Method Blank	Total/NA	Water	8081B/8082A	777299
LCS 680-777299/22-A	Lab Control Sample	Total/NA	Water	8081B/8082A	777299
680-233641-3 MS	MW-20A	Total/NA	Water	8081B/8082A	777299
680-233641-3 MSD	MW-20A	Total/NA	Water	8081B/8082A	777299

Analysis Batch: 777401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-1	MW-08	Total/NA	Water	8081B/8082A	777299

Metals

Prep Batch: 773724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-1	MW-08	Total Recoverable	Water	3005A	
680-233641-2	MW-09A	Total Recoverable	Water	3005A	
680-233641-3	MW-20A	Total Recoverable	Water	3005A	
680-233641-5	Field Duplicate 1	Total Recoverable	Water	3005A	
680-233641-6	OW-22	Total Recoverable	Water	3005A	
680-233641-7	OW-22F	Dissolved	Water	3005A	
MB 680-773724/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-773724/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-233641-3 MS	MW-20A	Total Recoverable	Water	3005A	
680-233641-3 MSD	MW-20A	Total Recoverable	Water	3005A	

Prep Batch: 773851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-1	MW-08	Total/NA	Water	7470A	
680-233641-2	MW-09A	Total/NA	Water	7470A	
680-233641-3	MW-20A	Total/NA	Water	7470A	
680-233641-5	Field Duplicate 1	Total/NA	Water	7470A	
680-233641-6	OW-22	Total/NA	Water	7470A	
680-233641-7	OW-22F	Dissolved	Water	7470A	
MB 680-773851/12-A	Method Blank	Total/NA	Water	7470A	
LCS 680-773851/13-A	Lab Control Sample	Total/NA	Water	7470A	
680-233641-3 MS	MW-20A	Total/NA	Water	7470A	
680-233641-3 MSD	MW-20A	Total/NA	Water	7470A	

Analysis Batch: 774083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-1	MW-08	Total/NA	Water	7470A	773851

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Metals (Continued)

Analysis Batch: 774083 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-2	MW-09A	Total/NA	Water	7470A	773851
680-233641-3	MW-20A	Total/NA	Water	7470A	773851
680-233641-5	Field Duplicate 1	Total/NA	Water	7470A	773851
680-233641-6	OW-22	Total/NA	Water	7470A	773851
680-233641-7	OW-22F	Dissolved	Water	7470A	773851
MB 680-773851/12-A	Method Blank	Total/NA	Water	7470A	773851
LCS 680-773851/13-A	Lab Control Sample	Total/NA	Water	7470A	773851
680-233641-3 MS	MW-20A	Total/NA	Water	7470A	773851
680-233641-3 MSD	MW-20A	Total/NA	Water	7470A	773851

Analysis Batch: 774104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233641-1	MW-08	Total Recoverable	Water	6010D	773724
680-233641-2	MW-09A	Total Recoverable	Water	6010D	773724
680-233641-3	MW-20A	Total Recoverable	Water	6010D	773724
680-233641-5	Field Duplicate 1	Total Recoverable	Water	6010D	773724
680-233641-6	OW-22	Total Recoverable	Water	6010D	773724
680-233641-7	OW-22F	Dissolved	Water	6010C	773724
MB 680-773724/1-A	Method Blank	Total Recoverable	Water	6010D	773724
LCS 680-773724/2-A	Lab Control Sample	Total Recoverable	Water	6010D	773724
680-233641-3 MS	MW-20A	Total Recoverable	Water	6010D	773724
680-233641-3 MSD	MW-20A	Total Recoverable	Water	6010D	773724

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Client Sample ID: MW-08

Lab Sample ID: 680-233641-1

Date Collected: 04/14/23 17:00

Matrix: Water

Date Received: 04/15/23 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	775352	04/26/23 15:02	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Prep	3520C			1039 mL	1 mL	774742	04/21/23 20:00	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	775843	04/28/23 19:55	T1C	EET SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1052.1 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777401	05/07/23 19:08	GEM	EET SAV
	Instrument ID: CSGZ									
Total/NA	Prep	3510C			1014 mL	2 mL	609684	04/21/23 15:27	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610250	04/26/23 22:07	MKW	EET DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			25 mL	25 mL	773724	04/17/23 11:22	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774104	04/18/23 20:48	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	773851	04/18/23 06:47	JKL	EET SAV
Total/NA	Analysis	7470A		1			774083	04/18/23 13:56	JKL	EET SAV
	Instrument ID: QuickTrace2									

Client Sample ID: MW-09A

Lab Sample ID: 680-233641-2

Date Collected: 04/14/23 15:49

Matrix: Water

Date Received: 04/15/23 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	775352	04/26/23 15:24	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Prep	3520C			1036.7 mL	1 mL	774742	04/21/23 20:00	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	775843	04/28/23 20:18	T1C	EET SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1030.9 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777396	05/07/23 17:50	GEM	EET SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1057.3 mL	2 mL	609684	04/21/23 15:27	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610250	04/26/23 22:46	MKW	EET DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			25 mL	25 mL	773724	04/17/23 11:22	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774104	04/18/23 20:35	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	773851	04/18/23 06:47	JKL	EET SAV
Total/NA	Analysis	7470A		1			774083	04/18/23 13:57	JKL	EET SAV
	Instrument ID: QuickTrace2									

Eurofins Savannah

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Client Sample ID: MW-20A

Date Collected: 04/14/23 10:05

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-3

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	8260D		1	5 mL	5 mL	775352	04/26/23 16:51	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Prep	3520C			1035.4 mL	1 mL	774742	04/21/23 20:00	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	775843	04/28/23 17:34	T1C	EET SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1035.4 mL	1 mL	774742	04/21/23 20:00	IR	EET SAV
Total/NA	Analysis	8270D SIM		1	1 mL	1 mL	780049	05/23/23 18:11	DBM	EET SAV
	Instrument ID: CMSK									
Total/NA	Prep	3520C			1037.4 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777396	05/07/23 18:06	GEM	EET SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1033.5 mL	2 mL	609684	04/21/23 15:27	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610250	04/26/23 23:25	MKW	EET DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			25 mL	25 mL	773724	04/17/23 11:22	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774104	04/18/23 19:35	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	773851	04/18/23 06:47	JKL	EET SAV
Total/NA	Analysis	7470A		1			774083	04/18/23 14:02	JKL	EET SAV
	Instrument ID: QuickTrace2									

Client Sample ID: MW-20AF

Date Collected: 04/14/23 10:05

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-4

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			1029.5 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Dissolved	Analysis	8081B/8082A		1	1 mL	1 mL	777396	05/07/23 18:22	GEM	EET SAV
	Instrument ID: CSGK									

Client Sample ID: Field Duplicate 1

Date Collected: 04/14/23 00:00

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-5

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	8260D		1	5 mL	5 mL	775352	04/26/23 12:51	Y1S	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Prep	3520C			1046.7 mL	1 mL	774742	04/21/23 20:00	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	775843	04/28/23 20:42	T1C	EET SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1046.7 mL	1 mL	774742	04/21/23 20:00	IR	EET SAV
Total/NA	Analysis	8270D SIM		1	1 mL	1 mL	780049	05/23/23 18:35	DBM	EET SAV
	Instrument ID: CMSK									

Eurofins Savannah

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Client Sample ID: Field Duplicate 1

Date Collected: 04/14/23 00:00

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-5

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			1014.5 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777396	05/07/23 18:38	GEM	EET SAV
		Instrument ID: CSGK								
Total/NA	Prep	3510C			1039.5 mL	2 mL	609684	04/21/23 15:27	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610250	04/27/23 01:22	MKW	EET DEN
		Instrument ID: SGC_D2								
Total Recoverable	Prep	3005A			25 mL	25 mL	773724	04/17/23 11:22	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774104	04/18/23 20:55	BJB	EET SAV
		Instrument ID: ICPH								
Total/NA	Prep	7470A			50 mL	50 mL	773851	04/18/23 06:47	JKL	EET SAV
Total/NA	Analysis	7470A		1			774083	04/18/23 14:07	JKL	EET SAV
		Instrument ID: QuickTrace2								

Client Sample ID: OW-22

Date Collected: 04/14/23 18:03

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-6

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	8260D		1	5 mL	5 mL	780338	05/25/23 14:29	RPG	EET SAV
		Instrument ID: CMSAA								
Total/NA	Prep	3520C			1047.8 mL	1 mL	774742	04/21/23 20:00	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	775843	04/28/23 21:05	T1C	EET SAV
		Instrument ID: CMSG								
Total/NA	Prep	3520C			1047.8 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777396	05/07/23 18:54	GEM	EET SAV
		Instrument ID: CSGK								
Total/NA	Prep	3510C			1002.2 mL	2 mL	609684	04/21/23 15:27	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610250	04/27/23 02:01	MKW	EET DEN
		Instrument ID: SGC_D2								
Total Recoverable	Prep	3005A			25 mL	25 mL	773724	04/17/23 11:22	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774104	04/18/23 20:38	BJB	EET SAV
		Instrument ID: ICPH								
Total/NA	Prep	7470A			50 mL	50 mL	773851	04/18/23 06:47	JKL	EET SAV
Total/NA	Analysis	7470A		1			774083	04/18/23 14:08	JKL	EET SAV
		Instrument ID: QuickTrace2								

Client Sample ID: OW-22F

Date Collected: 04/14/23 18:03

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-7

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			991.9 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Dissolved	Analysis	8081B/8082A		1	1 mL	1 mL	777396	05/07/23 19:10	GEM	EET SAV
		Instrument ID: CSGK								

Eurofins Savannah

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Client Sample ID: OW-22F

Date Collected: 04/14/23 18:03

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-7

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			25 mL	25 mL	773724	04/17/23 11:22	RR	EET SAV
Dissolved	Analysis	6010C		1			774104	04/18/23 20:51	BJB	EET SAV
		Instrument ID: ICPH								
Dissolved	Prep	7470A			50 mL	50 mL	773851	04/18/23 06:47	JKL	EET SAV
Dissolved	Analysis	7470A		1			774083	04/18/23 14:10	JKL	EET SAV
		Instrument ID: QuickTrace2								

Client Sample ID: Trip Blank 20230413

Date Collected: 04/14/23 08:00

Date Received: 04/15/23 08:45

Lab Sample ID: 680-233641-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	775141	04/25/23 15:21	P1C	EET SAV
		Instrument ID: CMSAA								

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-23

Laboratory: Eurofins 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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-24
Arizona	State	AZ0713	05-22-23
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-24
Connecticut	State	PH-0686	05-23-23
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	05-02-23
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Oregon	NELAP	4025-011	01-10-24
Pennsylvania	NELAP	013	07-31-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	12037	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Savannah

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233641-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	EET SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	EET DEN
6010C	Metals (ICP)	SW846	EET SAV
6010D	Metals (ICP)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody Record



Environmental Testing

Client Information		Sampler	Lab PVI:	Carrier Tracking No(s):	COC No:													
Client Contact:		JFA, FGK, JSC	Savoie, Noel		680-145262-52668.3													
Ben Smith		Phone: 713-522-0300	E-Mail: Noel.Savoie@et.eurofins.com	State of Origin:	Page: 1 of 1													
Company:		PWSID:		Job #:	6495													
GSI Environmental, Inc				Analysis Requested														
Address:		Due Date Requested:		Total Number of Containers														
2211 Norfolk, Suite 1000																		
City:		TAT Requested (days):		Note:														
Houston		standard																
State, Zip:		Compliance Project: Δ Yes Δ No																
TX, 77098-4044																		
Phone:		PO #:																
713-522-6300(Tel)		40200004																
Email:		WO #:																
WBSmith@gsi-net.com																		
Project Name:		Project #:																
Anniston RCRA March 2023		68018993																
Site:		SSOW#:																
Anniston, AL - Solvita Inc																		
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, AA=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - Chlorobenzene	8270D - 1,2-DCB/1,4-DCB/4-NP/100-TEPP	814B - Parathion/Sulfotop	6010D - 7470 - Cobalt, Mercury	8081B, 8082A - PCB	814B - Parathion	8081B, 8082A - Dissolved PCBs - Field Filtered	6010D - 7470 - Cobalt, Manganese, Mercury	6010C - 7470/Dissolved Cobalt, Mercury	8270D - 1,2-DCB/1,4-DCB/4-NP/100-TEPP/Pon/1,2,4,6-trichlorophenol	8082 Precursors	Total Number of Containers
MW-08	4-14-23	1700	G	W			X	X	X	X								2
MW-09A		1549					X	X	X	X								10
MW-20A		1005					X	X	X	X								30
MW-20AF		1005					X	X	X	X								2
Field Duplicate 1							X	X	X	X								10
OW-22		1803					X	X	X	X								3
OW-22F		1803					X	X	X	X								2
Trip Blank 20230413		900					X											

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Deliverable Requested ☒ I, II, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: JESSICA ALANIS Date: 4/14/23 0300 Company: GSI

Relinquished by: _____ Date: _____ Company: _____

Relinquished by: _____ Date: _____ Company: _____

Custody Seals Intact: Δ Yes Δ No Custody Seal No. _____

Cooler Temperature(s) °C and Other Remarks: _____

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: _____

Method of Shipment: _____

Received by: _____ Date: 4/15/23 0845 Company: _____

Received by: _____ Date: _____ Company: _____

Received by: _____ Date: _____ Company: _____

Ver 06/08/2021

5.3/5.9 0.5/1.1 1.0/6.6 1.3/1.9 2.2/2.5 4.3/4.9



Chain of Custody Record

Client Information (Sub Contract Lab)			Lab PM:	Carrier Tracking No(s):	COC No:					
Client Contact			Savoie, Noel		680-734545.1					
Shipping/Receiving			E-Mail:	State of Origin:	Page:					
Company:			Noel Savoie@et.eurofins.com	Alabama	Page 1 of 1					
TestAmerica Laboratories, Inc.			Accreditations Required (See note):							
Address:			State Program - Alabama							
City:			Job #:							
State, Zip:			Preservation Codes:							
CO, 80002			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 Other:							
Phone:			MI - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)							
Email:										
Project #:										
68018993										
Site:										
Due Date Requested:			Analysis Requested							
4/26/2023										
TAT Requested (days):										
PO #:										
WO #:										
Sample Date			Sample Time	Sample Type (G=grab)	Matrix (W=water, S=solid, O=water/solid)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion/Sulfotep	Total Number of containers	Special Instructions/Note:
MW-08 (680-233641-1)	4/14/23	17:00	Central		Water		X	X	2	
MW-09A (680-233641-2)	4/14/23	15:49	Central		Water		X	X	2	
MW-20A (680-233641-3)	4/14/23	10:05	Central		Water		X	X	2	
MW-20A (680-233641-3MS)	4/14/23	10:05	Central	MS	Water		X	X	2	
MW-20A (680-233641-3MSD)	4/14/23	10:05	Central	MSD	Water		X	X	2	
Field Duplicate 1 (680-233641-5)	4/14/23	Central			Water		X	X	2	
OW-22 (680-233641-6)	4/14/23	18:03	Central		Water		X	X	2	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our 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/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested: I, II, III, IV, Other (specify)										
Primary Deliverable Rank: 2										
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:										
Empty Kit Relinquished by:										
Date:										
Relinquished by:										
Relinquished by:										
Relinquished by:										
Custody Seal No.:										
A Yes A No										

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-233641-1

Login Number: 233641

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	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 $<6\text{mm}$ (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: 680-233641-1

Login Number: 233641

List Number: 2

Creator: Cannon, Charles D

List Source: Eurofins Denver

List Creation: 04/18/23 05:00 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	False	COC not relinquished.
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.	False	Limited volume received.
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 $<6\text{mm}$ (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 Name: CERCLA Groundwater Monitoring
 Reviewer: Jessica Alanis

Project Manager: Noel Savoie
 Project Number: 680-233645-1
 Validation Date: 08/16/2023

Laboratory: Eurofins Savannah Laboratories SDG #: 680-233645-1
 Analytical Method (type and no.): PCBs (8081A/8082B)
 Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐
 Sample Names: OWR-03S, WEL-04, WEL-04F

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)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
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 - 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?	☐	☒	☐	PCB-1260 recovered high (134%) above the upper laboratory limit of 130%. All associated sample results are non-detect; therefore, no qualification is required.

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 LCS/LCSD RPDs <29%

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?	☐	☐	☒	_____

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☒	☐	☐	_____
b) Were surrogate recoveries not calculated due to dilutions?	☐	☐	☒	_____

Comments/Notes:

No data requires qualification.

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: Jessica Alanis

Date: 8/16/23

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc.

Project Manager: Noel Savoie

Project Name: CERCLA Groundwater Monitoring

Project Number: 680-233645-1

Reviewer: Jessica Alanis

Validation Date: 08/16/2023

Laboratory: Eurofins TestAmerica Savannah

SDG #: 680-233645-1

Analytical Method (type and no.): Metals (6010D), Mercury (7470A)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐

Sample Names: WEL-04, WEL-04F

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)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
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)?	☐	☒	☐	
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?	☐	☐	☒	
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?	☐	☐	☒	

Comments/Notes:

No data requires qualification.

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Jessica Adams

Signature: _____

Date: 08/16/2023

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

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JOB DESCRIPTION

Anniston CERCLA April 2023

JOB NUMBER

680-233645-1

Eurofins Savannah

Job Notes

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Authorization



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Authorized for release by
Noel Savoie, Project Manager I
Noel.Savoie@et.eurofinsus.com
(850)254-0107

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233645-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 2023

Job ID: 680-233645-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-233645-1	OWR-03S	Water	04/12/23 12:36	04/14/23 10:30
680-233645-2	WEL-04	Water	04/12/23 18:06	04/14/23 10:30
680-233645-3	WEL-04F	Water	04/12/23 18:06	04/14/23 10:30

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233645-1

Job ID: 680-233645-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-233645-1

Receipt

The samples were received on 4/14/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.5°C

Pesticides/PCBs

Method 8081B_8082A: The laboratory control sample duplicate (LCSD) for preparation batch 680-777035 and analytical batch 680-777391 recovered outside control limits for the following analytes: PCB-1260. These analytes were biased high in the LCSD and were not detected in the associated samples; 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.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233645-1

Client Sample ID: OWR-03S

Lab Sample ID: 680-233645-1

Date Collected: 04/12/23 12:36

Matrix: Water

Date Received: 04/14/23 10:30

Method: SW846 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		05/04/23 21:20	05/07/23 23:05	1
PCB-1221	<0.50		0.50	0.086	ug/L		05/04/23 21:20	05/07/23 23:05	1
PCB-1232	<0.50		0.50	0.086	ug/L		05/04/23 21:20	05/07/23 23:05	1
PCB-1242	<0.50		0.50	0.086	ug/L		05/04/23 21:20	05/07/23 23:05	1
PCB-1248	<0.50		0.50	0.086	ug/L		05/04/23 21:20	05/07/23 23:05	1
PCB-1254	<0.50		0.50	0.086	ug/L		05/04/23 21:20	05/07/23 23:05	1
PCB-1260	<0.50	*+	0.50	0.057	ug/L		05/04/23 21:20	05/07/23 23:05	1
PCB-1268	<0.50		0.50	0.086	ug/L		05/04/23 21:20	05/07/23 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	31		14 - 130				05/04/23 21:20	05/07/23 23:05	1
Tetrachloro-m-xylene	55		40 - 130				05/04/23 21:20	05/07/23 23:05	1

Client Sample ID: WEL-04

Lab Sample ID: 680-233645-2

Date Collected: 04/12/23 18:06

Matrix: Water

Date Received: 04/14/23 10:30

Method: SW846 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		05/04/23 21:20	05/07/23 18:38	1
PCB-1221	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 18:38	1
PCB-1232	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 18:38	1
PCB-1242	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 18:38	1
PCB-1248	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 18:38	1
PCB-1254	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 18:38	1
PCB-1260	<0.50		0.50	0.059	ug/L		05/04/23 21:20	05/07/23 18:38	1
PCB-1268	<0.50		0.50	0.088	ug/L		05/04/23 21:20	05/07/23 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	14		14 - 130				05/04/23 21:20	05/07/23 18:38	1
Tetrachloro-m-xylene	64		40 - 130				05/04/23 21:20	05/07/23 18:38	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.058		0.010	0.0013	mg/L		04/18/23 05:37	04/18/23 17:10	1

Client Sample ID: WEL-04F

Lab Sample ID: 680-233645-3

Date Collected: 04/12/23 18:06

Matrix: Water

Date Received: 04/14/23 10:30

Method: SW846 8082A - PCBs - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 18:53	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 18:53	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 18:53	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 18:53	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 18:53	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 18:53	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		05/04/23 21:20	05/07/23 18:53	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 18:53	1

Eurofins Savannah

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233645-1

Client Sample ID: WEL-04F

Lab Sample ID: 680-233645-3

Date Collected: 04/12/23 18:06

Matrix: Water

Date Received: 04/14/23 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	38		14 - 130	05/04/23 21:20	05/07/23 18:53	1
Tetrachloro-m-xylene	51		40 - 130	05/04/23 21:20	05/07/23 18:53	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	0.040		0.010	0.0013	mg/L		04/18/23 05:37	04/18/23 17:13	1

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233645-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-777035/20-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1221	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1232	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1242	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1248	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1254	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1260	<0.50		0.50	0.060	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1268	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		05/04/23 21:20	05/07/23 17:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	103		14 - 130	05/04/23 21:20	05/07/23 17:16	1
Tetrachloro-m-xylene	60		40 - 130	05/04/23 21:20	05/07/23 17:16	1

Lab Sample ID: LCS 680-777035/21-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	3.00	2.70		ug/L		90	44 - 130
PCB-1016, Dissolved	3.00	2.70		ug/L		90	44 - 130
PCB-1260	3.00	3.15		ug/L		105	35 - 130
PCB-1260, Dissolved	3.00	3.15		ug/L		105	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	75		14 - 130
Tetrachloro-m-xylene	53		40 - 130

Lab Sample ID: LCSD 680-777035/22-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 777035

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	3.00	3.61		ug/L		120	44 - 130	29	30
PCB-1016, Dissolved	3.00	3.61		ug/L		120	44 - 130	29	30
PCB-1260	3.00	4.01	*+	ug/L		134	35 - 130	24	40
PCB-1260, Dissolved	3.00	4.01	*+	ug/L		134	35 - 130	24	40

Eurofins Savannah

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233645-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 680-777035/22-A

Matrix: Water

Analysis Batch: 777391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 777035

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	114		14 - 130
Tetrachloro-m-xylene	77		40 - 130

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-773844/1-A

Matrix: Water

Analysis Batch: 774104

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 773844

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.010	0.0013	mg/L		04/18/23 05:37	04/18/23 15:51	1
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/18/23 05:37	04/18/23 15:51	1

Lab Sample ID: LCS 680-773844/2-A

Matrix: Water

Analysis Batch: 774104

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 773844

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Manganese	0.400	0.424		mg/L		106	80 - 120		
Manganese, Dissolved	0.400	0.424		mg/L		106	80 - 120		

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233645-1

GC Semi VOA

Prep Batch: 777035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233645-1	OWR-03S	Total/NA	Water	3520C	
680-233645-2	WEL-04	Total/NA	Water	3520C	
680-233645-3	WEL-04F	Dissolved	Water	3520C	
MB 680-777035/20-A	Method Blank	Total/NA	Water	3520C	
LCS 680-777035/21-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-777035/22-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 777391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233645-1	OWR-03S	Total/NA	Water	8081B/8082A	777035
MB 680-777035/20-A	Method Blank	Total/NA	Water	8081B/8082A	777035
LCS 680-777035/21-A	Lab Control Sample	Total/NA	Water	8081B/8082A	777035
LCSD 680-777035/22-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	777035

Analysis Batch: 777401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233645-2	WEL-04	Total/NA	Water	8081B/8082A	777035
680-233645-3	WEL-04F	Dissolved	Water	8082A	777035

Metals

Prep Batch: 773844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233645-2	WEL-04	Total Recoverable	Water	3005A	
680-233645-3	WEL-04F	Dissolved	Water	3005A	
MB 680-773844/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-773844/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 774104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233645-2	WEL-04	Total Recoverable	Water	6010D	773844
680-233645-3	WEL-04F	Dissolved	Water	6010D	773844
MB 680-773844/1-A	Method Blank	Total Recoverable	Water	6010D	773844
LCS 680-773844/2-A	Lab Control Sample	Total Recoverable	Water	6010D	773844

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233645-1

Client Sample ID: OWR-03S

Lab Sample ID: 680-233645-1

Date Collected: 04/12/23 12:36

Matrix: Water

Date Received: 04/14/23 10:30

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	5 mL	777035	05/04/23 21:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777391	05/07/23 23:05	GEM	EET SAV
Instrument ID: CSGJ										

Client Sample ID: WEL-04

Lab Sample ID: 680-233645-2

Date Collected: 04/12/23 18:06

Matrix: Water

Date Received: 04/14/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1018.9 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777401	05/07/23 18:38	GEM	EET SAV
Instrument ID: CSGZ										
Total Recoverable	Prep	3005A			25 mL	25 mL	773844	04/18/23 05:37	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774104	04/18/23 17:10	BJB	EET SAV
Instrument ID: ICPH										

Client Sample ID: WEL-04F

Lab Sample ID: 680-233645-3

Date Collected: 04/12/23 18:06

Matrix: Water

Date Received: 04/14/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1001 mL	5 mL	777035	05/04/23 21:20	IR	EET SAV
Dissolved	Analysis	8082A		1	1 mL	1 mL	777401	05/07/23 18:53	GEM	EET SAV
Instrument ID: CSGZ										
Dissolved	Prep	3005A			25 mL	25 mL	773844	04/18/23 05:37	RR	EET SAV
Dissolved	Analysis	6010D		1			774104	04/18/23 17:13	BJB	EET SAV
Instrument ID: ICPH										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233645-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-23

1

2

3

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Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233645-1

Method	Method Description	Protocol	Laboratory
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	EET SAV
8082A	PCBs	SW846	EET SAV
6010D	Metals (ICP)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody Record

Client Information		Sampler	Lab PM:	Carrier Tracking No(s):	COC No:																		
Client Contact: Jessica Alanis		EGK, JA, JSC	Saville, Noel		680-145369-52712.1																		
Company: GSI Environmental, Inc		Phone: 713-522-6300	E-Mail: Noel.Saville@et.eurofins.com	State of Origin:	Page: 1 of 1																		
Address: 2211 Norfolk, Suite 1000		PWSID:		Job #:	6497																		
City: Houston		Analysis Requested																					
State, Zip: TX, 77098-4044		Due Date Requested:																					
Phone: 713-522-6300(Tel)		TAT Requested (days): Standard																					
Email: JAlanis@ggs-net.com		Compliance Project: ☐ Yes ☒ No																					
Project Name: Anniston CERCLA April 2023		PO #: 54931065																					
Site: Anniston, AL		WO #:																					
		Project #: 68020284																					
		SSOW#:																					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code (ST=Stasis, A=Aut)	Matrix (Weater, Solid, Onwater/Oil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - 7470 - Manganese/Beryllium/Mercury	8260D - Trichloroethylene	8081B - 8082A - PCB	6010D - 7470 - Manganese/Beryllium/Mercury - FF	8081B - 8082A - PCB	6010D - Cobalt/Manganese	6010D - Dissolved Cobalt/Manganese - FF	680 - PCB Homologs	680 - Dissolved PCB Homologs - FF	6010D - Manganese	8141B - Parathion	8270D - 4-Nitrophenol	6010C - Dissolved Manganese - Field Filtered	Total Number of Containers	Special Instructions/Note:	
OWR-03S	4/12/23	1836	G		Water																		
WEL-04		1806			Water																		
WEL-04F		1806			Water																		
Field Duplicate					Water																		
OWW-10FF					Water																		
OWW-03S					Water																		
OWW-03D					Water																		
OWW-04					Water																		
OWW-04F					Water																		
OWW-04F					Water																		
OWW-04F					Water																		
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:																							
Empty Kit Relinquished by _____ Date: _____ Time: _____ Method of Shipment: _____																							
Relinquished by Ellen Kuiner Date/Time: 4/13/23 732 Company: GSI																							
Relinquished by _____ Date/Time: _____ Company: _____																							
Relinquished by _____ Date/Time: _____ Company: _____																							
Custody Seals Intact: ☐ Yes ☒ No																							
Custody Seal No. _____ Cooler Temperature(s) °C and Other Remarks: 2.2/2.8																							

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-233645-1

Login Number: 233645

List Source: Eurofins Savannah

List Number: 1

Creator: Drake, Victoria

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (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: Noel Savoie

Project Name: CERCLA Groundwater Monitoring

Project Number: 680-233701-1

Reviewer: Jessica Alanis

Validation Date: 08/30/2023

Laboratory: Eurofins Savannah and Lancaster Laboratories

SDG #: 680-233701-1

Analytical Method (type and no.): PCBs (8081B/8081A), VOCs (8260B), PCB Homologs (680)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐

Sample Names: OW-10, OWR-13, OWR-13F, OWR-14D, OWR-14DF, T-18, T-18F, Field Duplicate 2, Field Duplicate 2F, Field Duplicate 3, Trip Blank 20230417

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?	☒	☐	☐	<u>Trip Blank 20230417 & three duplicate pairs (original sample/ duplicate sample): OWR-14D/Field Duplicate 2; OWR-14DF/Field Duplicate 2F; OW-10/Field Duplicate 3.</u>
g) Field parameters collected (note types)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
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: Due to an error in sample placement by the laboratory, several samples set to be analyzed for PCBs by Method 8081B/8082A were disposed of before extraction. The samples included: OW-10, OW-10F, Field Duplicate 3, Field Duplicate 3F, WEL-01, WEL-01F, T-04, T-04F, T-18, T-18F, T-20, and T-20F. A resampling event took place to collect samples from these locations for PCB analysis by Method 8081B/8082A – these results can be found in Laboratory Report 680-236362-1.

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?	☐	☒	☐	<u>One 1-L bottle was received broken for sample T-18F; however, sufficient sample in remaining containers was available for analysis.</u>

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?	☐	☒	☐	Total Dichlorobiphenyls and Total Monochlorobiphenyls RLs in sample T-18 are elevated (0.2 ug/L) above the designated 0.1 ug/L RL. Sample results are above these elevated RLs; therefore, no data is qualified on this basis.
f) Were any sample dilutions noted?	☐	☒	☐	Total Dichlorobiphenyls and Total Monochlorobiphenyls in sample T-18, DF = 10.
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?	☒	☐	☐	The LCSD recovery of prep batch 374605 and analysis batch 3755831 was not calculated in the laboratory report. Calculations were conducted as part of this data validation and found to be within limits.

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	☒	☐	☐	Three duplicate pairs (original sample/ duplicate sample): OWR-14D/Field Duplicate 2; OWR-14DF/Field Duplicate 2F; OW-10/Field Duplicate 3.
b) Were field dup. precision criteria met (note RPD)?	☐	☒	☐	Total Tetrachlorobiphenyls: OWR-14D (0.38 ug/L)/ Field Duplicate 2 (0.42 ug/L) RPD= 10%. Total Pentachlorobiphenyls: OWR-14D (<0.2 ug/L)/ Field Duplicate 2 (0.2 ug/L) RPD cannot be calculated due to a detection and non-detection; results are qualified as estimated (UJ / J). Trichloroethene: OW-10 (3.3 ug/L)/ Field Duplicate 3 (3.2 ug/L) RPD = 3%.
c) Were lab duplicates analyzed (note original and duplicate samples)?	☒	☐	☐	Multiple LCS/LCSD pairs
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	The LCSD recovery of prep batch 374605 and analysis batch 3755831 was not calculated in the lab report. Calculations, including RPD calculations with the corresponding LCS, were conducted as part of this data validation and found to be within limits. All LCS/ LCSD RPDs ≤7%.

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?	☒	☐	☐	<u>Note that the laboratory only analyzed site-specific MS/MSD samples for VOCs by method 8260D due to the sample misplacement by the laboratory for PCB Aroclors by method 8081B/8082A (see data validation on laboratory report 680-236362-1). MS/MSD samples are not submitted for PCB Homologs by Method 680 in this laboratory report.</u>
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☒	☐	_____
b) Was MSD accuracy criteria met?	☒	☐	☐	<u>See note above.</u>
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☒	☐	_____
c) Were MS/MSD precision criteria met?	☒	☐	☐	<u>MS/MSD RPD = 1%</u>

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☒	☐	<u>DCB recovered low (13%) below the lower laboratory control limit of 14% of method 8081B/8082A in sample OWR-13F, but above the expanded lower acceptance limit defined in the NFG, 2020. Associated results are qualified as estimated (UJ).</u>
b) Were surrogate recoveries not calculated due to dilutions?	☐	☐	☒	_____

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
OWR-14D	Total Pentachlorobiphenyls	<0.2 ug/L	UJ	Original and duplicate sample RPD not calculated due to a non-detect result.
Field Duplicate 2	Total Pentachlorobiphenyls	0.2 ug/L	J	Original and duplicate sample RPD not calculated due to a non-detect result.
OWR-13F	PCB-1016	<0.5 ug/L	UJ	Low DCB surrogate recovery.
OWR-13F	PCB-1221	<0.5 ug/L	UJ	Low DCB surrogate recovery.
OWR-13F	PCB-1232	<0.5 ug/L	UJ	Low DCB surrogate recovery.
OWR-13F	PCB-1242	<0.5 ug/L	UJ	Low DCB surrogate recovery.
OWR-13F	PCB-1248	<0.5 ug/L	UJ	Low DCB surrogate recovery.
OWR-13F	PCB-1254	<0.5 ug/L	UJ	Low DCB surrogate recovery.
OWR-13F	PCB-1260	<0.5 ug/L	UJ	Low DCB surrogate recovery.
OWR-13F	PCB-1268	<0.5 ug/L	UJ	Low DCB surrogate recovery.

Signature: _____

Date: 8/30/2023

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc.

Project Manager: Noel Savoie

Project Name: CERCLA Groundwater Monitoring

Project Number: 680-233701-1

Reviewer: Jessica Alanis

Validation Date: 08/30/2023

Laboratory: Eurofins TestAmerica Savannah

SDG #: 680-233701-1

Analytical Method (type and no.): Metals (6010D), Mercury (7470A)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____

Sample Names: OW-10, OW-10F, OWR-14D, OWR-14DF, T-04, T-04F, T-20, T-20F, WEL-01, WEL-01F, Field Duplicate 2, Field Duplicate 2F, Field Duplicate 3, Field Duplicate 3F

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?	☒	☐	☐	<u>Four field duplicate pairs (original sample/ duplicate sample): OWR-14D/Field Duplicate 2; OWR-14DF/Field Duplicate 2F; OW-10/Field Duplicate 3; OW-10F/Field Duplicate 3F.</u>
g) Field parameters collected (note types)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
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?	☐	☒	☐	<u>Mercury RLs in samples O-10F and Field Duplicate 3F are elevated (0.0004 mg/L) above the designated 0.0002 mg/L RL. Sample results are above this elevated RL; therefore, no data is qualified on this basis.</u>
f) Were any sample dilutions noted?	☒	☐	☐	<u>Mercury in samples OW-10F and Field Duplicate 3F, DF = 5.</u>
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)?				Four field duplicate pairs (original sample/ duplicate sample): OWR-14D/Field Duplicate 2; OWR-14DF/Field Duplicate 2F; OW-10/Field Duplicate 3; OW-10F/Field Duplicate 3F.
	☒	☐	☐	
b) Were field dup. precision criteria met (note RPD)?	☐	☒	☐	Manganese: OWR-14D (0.012 mg/L)/ Field Duplicate 2 (0.018 mg/L) RPD = 40% (above precision control limits; results qualified as estimated J). OW-10F (0.58 mg/L)/ Field Duplicate 3F (0.72 mg/L) RPD = 22%. Mercury: OW-10 (0.0042 mg/L)/ Field Duplicate 3 (0.0042 mg/L) RPD = 2%. OW-10F (0.0057 mg/L)/ Field Duplicate 3F (0.0069 mg/L) RPD = 19%. Beryllium: OW-10F (0.0052mg/L)/ Field Duplicate 3F (0.0054 mg/L) RPD = 4%.
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?	☐	☐	☒	

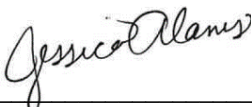
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☒	☐	Parent sample (OW-10) contained a high concentration (4 times greater than the MS spike concentration) of mercury; however, recovery was still calculated and within limits.
b) Was MSD accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☒	☐	Parent sample (OW-10) contained a high concentration (4 times greater than the MSD spike concentration) of mercury; however, recovery was still calculated and within limits.
c) Were MS/MSD precision criteria met?	☒	☐	☐	All RPDs ≤ 3%

Comments/Notes:

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
OWR-14D	Manganese	0.012 mg/L	J	Original and duplicate sample RPD exceeds control limits
Field Duplicate 2	Manganese	0.018 mg/L	J	Original and duplicate sample RPD exceeds control limits

Signature:  _____

Date: 08/30/2023 _____

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044
Generated 6/14/2023 9:59:48 AM Revision 1

JOB DESCRIPTION

Anniston CERCLA April 2023

JOB NUMBER

680-233701-1

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 2023

Job ID: 680-233701-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-233701-1	OW-10	Water	04/14/23 11:39	04/18/23 10:00
680-233701-2	OW-10F	Water	04/14/23 11:39	04/18/23 10:00
680-233701-3	Field Duplicate 3	Water	04/14/23 00:00	04/18/23 10:00
680-233701-4	Field Duplicate 3F	Water	04/14/23 00:00	04/18/23 10:00
680-233701-5	OWR-13	Water	04/14/23 15:48	04/18/23 10:00
680-233701-6	OWR-13F	Water	04/14/23 15:48	04/18/23 10:00
680-233701-7	WEL-01	Water	04/15/23 11:01	04/18/23 10:00
680-233701-8	WEL-01F	Water	04/15/23 11:01	04/18/23 10:00
680-233701-9	T-04	Water	04/15/23 12:50	04/18/23 10:00
680-233701-10	T-04F	Water	04/15/23 12:50	04/18/23 10:00
680-233701-11	OWR-14D	Water	04/14/23 11:48	04/18/23 10:00
680-233701-12	OWR-14DF	Water	04/14/23 11:48	04/18/23 10:00
680-233701-13	Field Duplicate 2	Water	04/14/23 00:00	04/18/23 10:00
680-233701-14	Field Duplicate 2F	Water	04/14/23 00:00	04/18/23 10:00
680-233701-15	T-18	Water	04/14/23 16:13	04/18/23 10:00
680-233701-16	T-18F	Water	04/14/23 16:13	04/18/23 10:00
680-233701-17	Trip Blank 20230417	Water	04/17/23 08:00	04/18/23 10:00
680-233701-18	T-20	Water	04/16/23 12:07	04/18/23 10:00
680-233701-19	T-20F	Water	04/16/23 12:07	04/18/23 10:00

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Job ID: 680-233701-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-233701-1

Revision

The report being provided is a revision of the original report sent on 6/7/2023. The report (revision 1) is being revised due to: Client requested Beryllium be removed from some analyte lists..

Receipt

The samples were received on 4/18/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 0.6°C, 0.8°C, 1.2°C, 1.8°C, 3.2°C, 3.7°C, 3.7°C and 4.5°C

Receipt Exceptions

One liter was received broken for the following sample:. T-18F (680-233701-16).

GC/MS VOA

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batches 680-775776 and 680-775871.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

Method 680: IS was double spiked inadvertently. (680-233550-A-1-B MS)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides/PCBs

Method 8081B_8082A: Due an internal error the following samples were unable to be run for PCBs: OW-10 (680-233701-1), OW-10F (680-233701-2), Field Duplicate 3 (680-233701-3), Field Duplicate 3F (680-233701-4), WEL-01 (680-233701-7), WEL-1 (680-233701-8), T-04 (680-233701-9), T-04F (680-233701-10), T-18 (680-233701-13), T-18F (680-233701-14), T-20 (680-233701-19) and T-20F (680-233701-19).

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: OWR-13F (680-233701-6). 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.

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Client Sample ID: OW-10

Date Collected: 04/14/23 11:39

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233701-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	3.3		1.0	0.20	ug/L			04/27/23 21:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	118		70 - 130					04/27/23 21:03	1
1,2-Dichloroethane-d4 (Surr)	91		60 - 124					04/27/23 21:03	1
Dibromofluoromethane (Surr)	99		70 - 130					04/27/23 21:03	1
4-Bromofluorobenzene (Surr)	99		70 - 130					04/27/23 21:03	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0041		0.0040	0.00030	mg/L		04/19/23 05:46	04/19/23 13:03	1
Manganese	1.1		0.010	0.0013	mg/L		04/19/23 05:46	04/19/23 13:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0042		0.00020	0.000080	mg/L		04/19/23 14:44	04/20/23 09:56	1

Client Sample ID: OW-10F

Date Collected: 04/14/23 11:39

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233701-2

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium, Dissolved	0.0052		0.0040	0.00030	mg/L		04/19/23 06:32	04/19/23 16:05	1
Manganese, Dissolved	0.58		0.010	0.0013	mg/L		04/19/23 06:32	04/19/23 16:05	1

Method: SW846 7470A - Mercury (Dissolved) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0057		0.00040	0.00040	mg/L		04/19/23 14:44	04/20/23 10:40	5

Client Sample ID: Field Duplicate 3

Date Collected: 04/14/23 00:00

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233701-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	3.2		1.0	0.20	ug/L			04/28/23 14:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130					04/28/23 14:19	1
1,2-Dichloroethane-d4 (Surr)	99		60 - 124					04/28/23 14:19	1
Dibromofluoromethane (Surr)	93		70 - 130					04/28/23 14:19	1
4-Bromofluorobenzene (Surr)	112		70 - 130					04/28/23 14:19	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0041		0.0040	0.00030	mg/L		04/19/23 05:46	04/19/23 13:40	1
Manganese	1.1		0.010	0.0013	mg/L		04/19/23 05:46	04/19/23 13:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0041		0.00020	0.000080	mg/L		04/19/23 14:44	04/20/23 10:02	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Client Sample ID: Field Duplicate 3F

Lab Sample ID: 680-233701-4

Date Collected: 04/14/23 00:00

Matrix: Water

Date Received: 04/18/23 10:00

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium, Dissolved	0.0054		0.0040	0.00030	mg/L		04/19/23 06:32	04/19/23 16:08	1
Manganese, Dissolved	0.72		0.010	0.0013	mg/L		04/19/23 06:32	04/19/23 16:08	1

Method: SW846 7470A - Mercury (Dissolved) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0069		0.00040	0.00040	mg/L		04/19/23 14:44	04/20/23 10:41	5

Client Sample ID: OWR-13

Lab Sample ID: 680-233701-5

Date Collected: 04/14/23 15:48

Matrix: Water

Date Received: 04/18/23 10:00

Method: EPA 680 - Polychlorinated Biphenyls by GCMS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	<0.50		0.50	0.19	ug/L		05/11/23 09:16	05/15/23 18:06	1
Total Dichlorobiphenyls	<0.10		0.10	0.019	ug/L		05/11/23 09:16	05/15/23 18:06	1
Total Heptachlorobiphenyls	<0.30		0.30	0.039	ug/L		05/11/23 09:16	05/15/23 18:06	1
Total Hexachlorobiphenyls	0.27		0.20	0.029	ug/L		05/11/23 09:16	05/15/23 18:06	1
Total Monochlorobiphenyls	<0.10		0.10	0.019	ug/L		05/11/23 09:16	05/15/23 18:06	1
Total Nonachlorobiphenyls	<0.50		0.50	0.19	ug/L		05/11/23 09:16	05/15/23 18:06	1
Total Octachlorobiphenyls	<0.30		0.30	0.048	ug/L		05/11/23 09:16	05/15/23 18:06	1
Total Pentachlorobiphenyls	1.6		0.20	0.029	ug/L		05/11/23 09:16	05/15/23 18:06	1
Total Tetrachlorobiphenyls	3.7		0.20	0.029	ug/L		05/11/23 09:16	05/15/23 18:06	1
Total Trichlorobiphenyls	<0.10		0.10	0.019	ug/L		05/11/23 09:16	05/15/23 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-138L	70		20 - 127	05/11/23 09:16	05/15/23 18:06	1
PCB-52L	73		20 - 120	05/11/23 09:16	05/15/23 18:06	1

Method: SW846 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		06/01/23 19:00	06/05/23 19:29	1
PCB-1221	<0.50		0.50	0.089	ug/L		06/01/23 19:00	06/05/23 19:29	1
PCB-1232	<0.50		0.50	0.089	ug/L		06/01/23 19:00	06/05/23 19:29	1
PCB-1242	<0.50		0.50	0.089	ug/L		06/01/23 19:00	06/05/23 19:29	1
PCB-1248	<0.50		0.50	0.089	ug/L		06/01/23 19:00	06/05/23 19:29	1
PCB-1254	4.6		0.50	0.089	ug/L		06/01/23 19:00	06/05/23 19:29	1
PCB-1260	0.66		0.50	0.059	ug/L		06/01/23 19:00	06/05/23 19:29	1
PCB-1268	<0.50		0.50	0.089	ug/L		06/01/23 19:00	06/05/23 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		14 - 130	06/01/23 19:00	06/05/23 19:29	1
Tetrachloro-m-xylene	56		40 - 130	06/01/23 19:00	06/05/23 19:29	1

Client Sample ID: OWR-13F

Lab Sample ID: 680-233701-6

Date Collected: 04/14/23 15:48

Matrix: Water

Date Received: 04/18/23 10:00

Method: EPA 680 - Polychlorinated Biphenyls by GCMS - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	<0.50		0.50	0.20	ug/L		05/11/23 09:16	05/15/23 18:31	1
Total Dichlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/15/23 18:31	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Client Sample ID: OWR-13F

Lab Sample ID: 680-233701-6

Date Collected: 04/14/23 15:48

Matrix: Water

Date Received: 04/18/23 10:00

Method: EPA 680 - Polychlorinated Biphenyls by GCMS - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Heptachlorobiphenyls	<0.30		0.30	0.039	ug/L		05/11/23 09:16	05/15/23 18:31	1
Total Hexachlorobiphenyls	<0.20		0.20	0.029	ug/L		05/11/23 09:16	05/15/23 18:31	1
Total Monochlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/15/23 18:31	1
Total Nonachlorobiphenyls	<0.50		0.50	0.20	ug/L		05/11/23 09:16	05/15/23 18:31	1
Total Octachlorobiphenyls	<0.30		0.30	0.049	ug/L		05/11/23 09:16	05/15/23 18:31	1
Total Pentachlorobiphenyls	<0.20		0.20	0.029	ug/L		05/11/23 09:16	05/15/23 18:31	1
Total Tetrachlorobiphenyls	<0.20		0.20	0.029	ug/L		05/11/23 09:16	05/15/23 18:31	1
Total Trichlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/15/23 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
PCB-52L	61		20 - 120				05/11/23 09:16	05/15/23 18:31	1
PCB-138L	62		20 - 127				05/11/23 09:16	05/15/23 18:31	1

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.088	ug/L		06/01/23 19:00	06/05/23 19:44	1
PCB-1221, Dissolved	<0.50		0.50	0.088	ug/L		06/01/23 19:00	06/05/23 19:44	1
PCB-1232, Dissolved	<0.50		0.50	0.088	ug/L		06/01/23 19:00	06/05/23 19:44	1
PCB-1242, Dissolved	<0.50		0.50	0.088	ug/L		06/01/23 19:00	06/05/23 19:44	1
PCB-1248, Dissolved	<0.50		0.50	0.088	ug/L		06/01/23 19:00	06/05/23 19:44	1
PCB-1254, Dissolved	<0.50		0.50	0.088	ug/L		06/01/23 19:00	06/05/23 19:44	1
PCB-1260, Dissolved	<0.50		0.50	0.059	ug/L		06/01/23 19:00	06/05/23 19:44	1
PCB-1268, Dissolved	<0.50		0.50	0.088	ug/L		06/01/23 19:00	06/05/23 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	13	S1-	14 - 130				06/01/23 19:00	06/05/23 19:44	1
Tetrachloro-m-xylene	41		40 - 130				06/01/23 19:00	06/05/23 19:44	1

Client Sample ID: WEL-01

Lab Sample ID: 680-233701-7

Date Collected: 04/15/23 11:01

Matrix: Water

Date Received: 04/18/23 10:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.015		0.010	0.0013	mg/L		04/19/23 05:46	04/19/23 13:43	1

Client Sample ID: WEL-01F

Lab Sample ID: 680-233701-8

Date Collected: 04/15/23 11:01

Matrix: Water

Date Received: 04/18/23 10:00

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	0.013		0.010	0.0013	mg/L		04/19/23 06:32	04/19/23 15:49	1

Client Sample ID: T-04

Lab Sample ID: 680-233701-9

Date Collected: 04/15/23 12:50

Matrix: Water

Date Received: 04/18/23 10:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.20		0.010	0.0013	mg/L		04/19/23 05:46	04/19/23 13:50	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Client Sample ID: T-04F

Date Collected: 04/15/23 12:50

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233701-10

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	0.063		0.010	0.0013	mg/L		04/19/23 06:32	04/19/23 16:12	1

Client Sample ID: OWR-14D

Date Collected: 04/14/23 11:48

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233701-11

Matrix: Water

Method: EPA 680 - Polychlorinated Biphenyls by GCMS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/15/23 18:55	1
Total Heptachlorobiphenyls	<0.30		0.30	0.040	ug/L		05/11/23 09:16	05/15/23 18:55	1
Total Hexachlorobiphenyls	<0.20		0.20	0.030	ug/L		05/11/23 09:16	05/15/23 18:55	1
Total Monochlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/15/23 18:55	1
Total Nonachlorobiphenyls	<0.50		0.50	0.20	ug/L		05/11/23 09:16	05/15/23 18:55	1
Total Octachlorobiphenyls	<0.30		0.30	0.050	ug/L		05/11/23 09:16	05/15/23 18:55	1
Total Pentachlorobiphenyls	<0.20		0.20	0.030	ug/L		05/11/23 09:16	05/15/23 18:55	1
Total Tetrachlorobiphenyls	0.38		0.20	0.030	ug/L		05/11/23 09:16	05/15/23 18:55	1
Total Trichlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/15/23 18:55	1
DCB Decachlorobiphenyl	<0.50		0.50	0.20	ug/L		05/11/23 09:16	05/15/23 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-52L	48		20 - 120	05/11/23 09:16	05/15/23 18:55	1
PCB-138L	55		20 - 127	05/11/23 09:16	05/15/23 18:55	1

Method: SW846 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		06/01/23 19:00	06/05/23 19:59	1
PCB-1221	<0.50		0.50	0.089	ug/L		06/01/23 19:00	06/05/23 19:59	1
PCB-1232	<0.50		0.50	0.089	ug/L		06/01/23 19:00	06/05/23 19:59	1
PCB-1242	<0.50		0.50	0.089	ug/L		06/01/23 19:00	06/05/23 19:59	1
PCB-1248	<0.50		0.50	0.089	ug/L		06/01/23 19:00	06/05/23 19:59	1
PCB-1254	<0.50		0.50	0.089	ug/L		06/01/23 19:00	06/05/23 19:59	1
PCB-1260	<0.50		0.50	0.060	ug/L		06/01/23 19:00	06/05/23 19:59	1
PCB-1268	<0.50		0.50	0.089	ug/L		06/01/23 19:00	06/05/23 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	36		14 - 130	06/01/23 19:00	06/05/23 19:59	1
Tetrachloro-m-xylene	53		40 - 130	06/01/23 19:00	06/05/23 19:59	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	12		10	1.3	ug/L		04/19/23 05:46	04/19/23 13:36	1

Client Sample ID: OWR-14DF

Date Collected: 04/14/23 11:48

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233701-12

Matrix: Water

Method: EPA 680 - Polychlorinated Biphenyls by GCMS - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	<0.50		0.50	0.19	ug/L		05/11/23 09:16	05/15/23 19:20	1
Total Dichlorobiphenyls	<0.10		0.10	0.019	ug/L		05/11/23 09:16	05/15/23 19:20	1
Total Heptachlorobiphenyls	<0.30		0.30	0.039	ug/L		05/11/23 09:16	05/15/23 19:20	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Client Sample ID: OWR-14DF

Lab Sample ID: 680-233701-12

Date Collected: 04/14/23 11:48

Matrix: Water

Date Received: 04/18/23 10:00

Method: EPA 680 - Polychlorinated Biphenyls by GCMS - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hexachlorobiphenyls	<0.20		0.20	0.029	ug/L		05/11/23 09:16	05/15/23 19:20	1
Total Monochlorobiphenyls	<0.10		0.10	0.019	ug/L		05/11/23 09:16	05/15/23 19:20	1
Total Nonachlorobiphenyls	<0.50		0.50	0.19	ug/L		05/11/23 09:16	05/15/23 19:20	1
Total Octachlorobiphenyls	<0.30		0.30	0.048	ug/L		05/11/23 09:16	05/15/23 19:20	1
Total Pentachlorobiphenyls	<0.20		0.20	0.029	ug/L		05/11/23 09:16	05/15/23 19:20	1
Total Tetrachlorobiphenyls	<0.20		0.20	0.029	ug/L		05/11/23 09:16	05/15/23 19:20	1
Total Trichlorobiphenyls	<0.10		0.10	0.019	ug/L		05/11/23 09:16	05/15/23 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-52L	47		20 - 120	05/11/23 09:16	05/15/23 19:20	1
PCB-138L	54		20 - 127	05/11/23 09:16	05/15/23 19:20	1

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.085	ug/L		06/01/23 19:00	06/05/23 20:14	1
PCB-1221, Dissolved	<0.50		0.50	0.085	ug/L		06/01/23 19:00	06/05/23 20:14	1
PCB-1232, Dissolved	<0.50		0.50	0.085	ug/L		06/01/23 19:00	06/05/23 20:14	1
PCB-1242, Dissolved	<0.50		0.50	0.085	ug/L		06/01/23 19:00	06/05/23 20:14	1
PCB-1248, Dissolved	<0.50		0.50	0.085	ug/L		06/01/23 19:00	06/05/23 20:14	1
PCB-1254, Dissolved	<0.50		0.50	0.085	ug/L		06/01/23 19:00	06/05/23 20:14	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		06/01/23 19:00	06/05/23 20:14	1
PCB-1268, Dissolved	<0.50		0.50	0.085	ug/L		06/01/23 19:00	06/05/23 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	23		14 - 130	06/01/23 19:00	06/05/23 20:14	1
Tetrachloro-m-xylene	44		40 - 130	06/01/23 19:00	06/05/23 20:14	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/19/23 06:32	04/19/23 16:15	1

Client Sample ID: Field Duplicate 2

Lab Sample ID: 680-233701-13

Date Collected: 04/14/23 00:00

Matrix: Water

Date Received: 04/18/23 10:00

Method: EPA 680 - Polychlorinated Biphenyls by GCMS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/15/23 19:44	1
Total Heptachlorobiphenyls	<0.30		0.30	0.039	ug/L		05/11/23 09:16	05/15/23 19:44	1
Total Hexachlorobiphenyls	<0.20		0.20	0.030	ug/L		05/11/23 09:16	05/15/23 19:44	1
Total Monochlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/15/23 19:44	1
Total Nonachlorobiphenyls	<0.50		0.50	0.20	ug/L		05/11/23 09:16	05/15/23 19:44	1
Total Octachlorobiphenyls	<0.30		0.30	0.049	ug/L		05/11/23 09:16	05/15/23 19:44	1
Total Pentachlorobiphenyls	0.20		0.20	0.030	ug/L		05/11/23 09:16	05/15/23 19:44	1
Total Tetrachlorobiphenyls	0.42		0.20	0.030	ug/L		05/11/23 09:16	05/15/23 19:44	1
Total Trichlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/15/23 19:44	1
DCB Decachlorobiphenyl	<0.50		0.50	0.20	ug/L		05/11/23 09:16	05/15/23 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-52L	63		20 - 120	05/11/23 09:16	05/15/23 19:44	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Client Sample ID: Field Duplicate 2

Lab Sample ID: 680-233701-13

Date Collected: 04/14/23 00:00

Matrix: Water

Date Received: 04/18/23 10:00

Method: EPA 680 - Polychlorinated Biphenyls by GCMS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-138L	66		20 - 127	05/11/23 09:16	05/15/23 19:44	1

Method: SW846 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		06/01/23 19:00	06/05/23 20:29	1
PCB-1221	<0.50		0.50	0.091	ug/L		06/01/23 19:00	06/05/23 20:29	1
PCB-1232	<0.50		0.50	0.091	ug/L		06/01/23 19:00	06/05/23 20:29	1
PCB-1242	<0.50		0.50	0.091	ug/L		06/01/23 19:00	06/05/23 20:29	1
PCB-1248	<0.50		0.50	0.091	ug/L		06/01/23 19:00	06/05/23 20:29	1
PCB-1254	<0.50		0.50	0.091	ug/L		06/01/23 19:00	06/05/23 20:29	1
PCB-1260	<0.50		0.50	0.061	ug/L		06/01/23 19:00	06/05/23 20:29	1
PCB-1268	<0.50		0.50	0.091	ug/L		06/01/23 19:00	06/05/23 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	34		14 - 130	06/01/23 19:00	06/05/23 20:29	1
Tetrachloro-m-xylene	58		40 - 130	06/01/23 19:00	06/05/23 20:29	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.018		0.010	0.0013	mg/L		04/19/23 05:46	04/19/23 13:46	1

Client Sample ID: Field Duplicate 2F

Lab Sample ID: 680-233701-14

Date Collected: 04/14/23 00:00

Matrix: Water

Date Received: 04/18/23 10:00

Method: EPA 680 - Polychlorinated Biphenyls by GCMS - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	<0.50		0.50	0.19	ug/L		05/11/23 09:16	05/15/23 20:09	1
Total Dichlorobiphenyls	<0.10		0.10	0.019	ug/L		05/11/23 09:16	05/15/23 20:09	1
Total Heptachlorobiphenyls	<0.30		0.30	0.039	ug/L		05/11/23 09:16	05/15/23 20:09	1
Total Hexachlorobiphenyls	<0.20		0.20	0.029	ug/L		05/11/23 09:16	05/15/23 20:09	1
Total Monochlorobiphenyls	<0.10		0.10	0.019	ug/L		05/11/23 09:16	05/15/23 20:09	1
Total Nonachlorobiphenyls	<0.50		0.50	0.19	ug/L		05/11/23 09:16	05/15/23 20:09	1
Total Octachlorobiphenyls	<0.30		0.30	0.048	ug/L		05/11/23 09:16	05/15/23 20:09	1
Total Pentachlorobiphenyls	<0.20		0.20	0.029	ug/L		05/11/23 09:16	05/15/23 20:09	1
Total Tetrachlorobiphenyls	<0.20		0.20	0.029	ug/L		05/11/23 09:16	05/15/23 20:09	1
Total Trichlorobiphenyls	<0.10		0.10	0.019	ug/L		05/11/23 09:16	05/15/23 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-52L	56		20 - 120	05/11/23 09:16	05/15/23 20:09	1
PCB-138L	60		20 - 127	05/11/23 09:16	05/15/23 20:09	1

Method: SW846 8082A - PCBs - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.087	ug/L		06/01/23 19:00	06/05/23 20:44	1
PCB-1221, Dissolved	<0.50		0.50	0.087	ug/L		06/01/23 19:00	06/05/23 20:44	1
PCB-1232, Dissolved	<0.50		0.50	0.087	ug/L		06/01/23 19:00	06/05/23 20:44	1
PCB-1242, Dissolved	<0.50		0.50	0.087	ug/L		06/01/23 19:00	06/05/23 20:44	1
PCB-1248, Dissolved	<0.50		0.50	0.087	ug/L		06/01/23 19:00	06/05/23 20:44	1
PCB-1254, Dissolved	<0.50		0.50	0.087	ug/L		06/01/23 19:00	06/05/23 20:44	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		06/01/23 19:00	06/05/23 20:44	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Client Sample ID: Field Duplicate 2F

Lab Sample ID: 680-233701-14

Date Collected: 04/14/23 00:00

Matrix: Water

Date Received: 04/18/23 10:00

Method: SW846 8082A - PCBs - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268, Dissolved	<0.50		0.50	0.087	ug/L		06/01/23 19:00	06/05/23 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	37		14 - 130				06/01/23 19:00	06/05/23 20:44	1
Tetrachloro-m-xylene	48		40 - 130				06/01/23 19:00	06/05/23 20:44	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/19/23 06:32	04/19/23 16:18	1

Client Sample ID: T-18

Lab Sample ID: 680-233701-15

Date Collected: 04/14/23 16:13

Matrix: Water

Date Received: 04/18/23 10:00

Method: EPA 680 - Polychlorinated Biphenyls by GCMS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Heptachlorobiphenyls	<0.30		0.30	0.039	ug/L		05/11/23 09:16	05/16/23 14:25	1
Total Hexachlorobiphenyls	<0.20		0.20	0.029	ug/L		05/11/23 09:16	05/16/23 14:25	1
Total Nonachlorobiphenyls	<0.50		0.50	0.20	ug/L		05/11/23 09:16	05/16/23 14:25	1
Total Octachlorobiphenyls	<0.30		0.30	0.049	ug/L		05/11/23 09:16	05/16/23 14:25	1
Total Pentachlorobiphenyls	<0.20		0.20	0.029	ug/L		05/11/23 09:16	05/16/23 14:25	1
Total Tetrachlorobiphenyls	<0.20		0.20	0.029	ug/L		05/11/23 09:16	05/16/23 14:25	1
Total Trichlorobiphenyls	0.29		0.10	0.020	ug/L		05/11/23 09:16	05/16/23 14:25	1
DCB Decachlorobiphenyl	<0.50		0.50	0.20	ug/L		05/11/23 09:16	05/16/23 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
PCB-52L	44		20 - 120				05/11/23 09:16	05/16/23 14:25	1
PCB-138L	42		20 - 127				05/11/23 09:16	05/16/23 14:25	1

Method: EPA 680 - Polychlorinated Biphenyls by GCMS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	12		0.20	0.20	ug/L		05/11/23 09:16	05/16/23 14:50	10
Total Monochlorobiphenyls	36		0.20	0.20	ug/L		05/11/23 09:16	05/16/23 14:50	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
PCB-52L	39		20 - 120				05/11/23 09:16	05/16/23 14:50	10
PCB-138L	39		20 - 127				05/11/23 09:16	05/16/23 14:50	10

Client Sample ID: T-18F

Lab Sample ID: 680-233701-16

Date Collected: 04/14/23 16:13

Matrix: Water

Date Received: 04/18/23 10:00

Method: EPA 680 - Polychlorinated Biphenyls by GCMS - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	<0.50		0.50	0.19	ug/L		05/11/23 09:16	05/16/23 00:52	1
Total Dichlorobiphenyls	0.11		0.10	0.019	ug/L		05/11/23 09:16	05/16/23 00:52	1
Total Heptachlorobiphenyls	<0.30		0.30	0.038	ug/L		05/11/23 09:16	05/16/23 00:52	1
Total Hexachlorobiphenyls	<0.20		0.20	0.029	ug/L		05/11/23 09:16	05/16/23 00:52	1
Total Monochlorobiphenyls	0.50		0.10	0.019	ug/L		05/11/23 09:16	05/16/23 00:52	1
Total Nonachlorobiphenyls	<0.50		0.50	0.19	ug/L		05/11/23 09:16	05/16/23 00:52	1
Total Octachlorobiphenyls	<0.30		0.30	0.048	ug/L		05/11/23 09:16	05/16/23 00:52	1
Total Pentachlorobiphenyls	<0.20		0.20	0.029	ug/L		05/11/23 09:16	05/16/23 00:52	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Client Sample ID: T-18F

Lab Sample ID: 680-233701-16

Date Collected: 04/14/23 16:13

Matrix: Water

Date Received: 04/18/23 10:00

Method: EPA 680 - Polychlorinated Biphenyls by GCMS - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Tetrachlorobiphenyls	<0.20		0.20	0.029	ug/L		05/11/23 09:16	05/16/23 00:52	1
Total Trichlorobiphenyls	<0.10		0.10	0.019	ug/L		05/11/23 09:16	05/16/23 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
PCB-52L	49		20 - 120				05/11/23 09:16	05/16/23 00:52	1
PCB-138L	45		20 - 127				05/11/23 09:16	05/16/23 00:52	1

Client Sample ID: Trip Blank 20230417

Lab Sample ID: 680-233701-17

Date Collected: 04/17/23 08:00

Matrix: Water

Date Received: 04/18/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.0		1.0	0.20	ug/L			04/27/23 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	110		70 - 130					04/27/23 19:51	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 124					04/27/23 19:51	1
Dibromofluoromethane (Surr)	107		70 - 130					04/27/23 19:51	1
4-Bromofluorobenzene (Surr)	105		70 - 130					04/27/23 19:51	1

Client Sample ID: T-20

Lab Sample ID: 680-233701-18

Date Collected: 04/16/23 12:07

Matrix: Water

Date Received: 04/18/23 10:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.1		0.010	0.0013	mg/L		04/19/23 05:46	04/19/23 13:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/19/23 14:44	04/20/23 10:06	1

Client Sample ID: T-20F

Lab Sample ID: 680-233701-19

Date Collected: 04/16/23 12:07

Matrix: Water

Date Received: 04/18/23 10:00

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	2.1		0.010	0.0013	mg/L		04/19/23 06:32	04/19/23 16:22	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-775635/9

Matrix: Water

Analysis Batch: 775635

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	0.20	ug/L			04/27/23 13:24	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	112		70 - 130					04/27/23 13:24	1
1,2-Dichloroethane-d4 (Surr)	95		60 - 124					04/27/23 13:24	1
Dibromofluoromethane (Surr)	105		70 - 130					04/27/23 13:24	1
4-Bromofluorobenzene (Surr)	99		70 - 130					04/27/23 13:24	1

Lab Sample ID: LCS 680-775635/5

Matrix: Water

Analysis Batch: 775635

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	54.2		ug/L		108	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	115		70 - 130				
1,2-Dichloroethane-d4 (Surr)	103		60 - 124				
Dibromofluoromethane (Surr)	102		70 - 130				
4-Bromofluorobenzene (Surr)	99		70 - 130				

Lab Sample ID: LCSD 680-775635/6

Matrix: Water

Analysis Batch: 775635

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	54.6		ug/L		109	70 - 130	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	116		70 - 130						
1,2-Dichloroethane-d4 (Surr)	104		60 - 124						
Dibromofluoromethane (Surr)	104		70 - 130						
4-Bromofluorobenzene (Surr)	99		70 - 130						

Lab Sample ID: 680-233701-1 MS

Matrix: Water

Analysis Batch: 775635

Client Sample ID: OW-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	3.3		50.0	60.9		ug/L		115	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
Toluene-d8 (Surr)	118		70 - 130						
1,2-Dichloroethane-d4 (Surr)	101		60 - 124						
Dibromofluoromethane (Surr)	96		70 - 130						
4-Bromofluorobenzene (Surr)	105		70 - 130						

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-233701-1 MSD

Matrix: Water

Analysis Batch: 775635

Client Sample ID: OW-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene	3.3		50.0	61.7		ug/L		117	70 - 130	1	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Toluene-d8 (Surr)	121		70 - 130								
1,2-Dichloroethane-d4 (Surr)	95		60 - 124								
Dibromofluoromethane (Surr)	97		70 - 130								
4-Bromofluorobenzene (Surr)	102		70 - 130								

Lab Sample ID: MB 680-775776/7

Matrix: Water

Analysis Batch: 775776

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	0.20	ug/L			04/27/23 19:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		70 - 130					04/27/23 19:30	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 124					04/27/23 19:30	1
Dibromofluoromethane (Surr)	104		70 - 130					04/27/23 19:30	1
4-Bromofluorobenzene (Surr)	105		70 - 130					04/27/23 19:30	1

Lab Sample ID: LCS 680-775776/3

Matrix: Water

Analysis Batch: 775776

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	52.0		ug/L		104	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	107		70 - 130				
1,2-Dichloroethane-d4 (Surr)	100		60 - 124				
Dibromofluoromethane (Surr)	107		70 - 130				
4-Bromofluorobenzene (Surr)	106		70 - 130				

Lab Sample ID: LCSD 680-775776/4

Matrix: Water

Analysis Batch: 775776

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	53.0		ug/L		106	70 - 130	2	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	109		70 - 130						
1,2-Dichloroethane-d4 (Surr)	113		60 - 124						
Dibromofluoromethane (Surr)	108		70 - 130						
4-Bromofluorobenzene (Surr)	105		70 - 130						

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-775871/9

Matrix: Water

Analysis Batch: 775871

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	0.20	ug/L			04/28/23 12:59	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130					04/28/23 12:59	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 124					04/28/23 12:59	1
Dibromofluoromethane (Surr)	93		70 - 130					04/28/23 12:59	1
4-Bromofluorobenzene (Surr)	114		70 - 130					04/28/23 12:59	1

Lab Sample ID: LCS 680-775871/5

Matrix: Water

Analysis Batch: 775871

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	49.3		ug/L		99	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	98		70 - 130				
1,2-Dichloroethane-d4 (Surr)	108		60 - 124				
Dibromofluoromethane (Surr)	93		70 - 130				
4-Bromofluorobenzene (Surr)	110		70 - 130				

Lab Sample ID: LCSD 680-775871/6

Matrix: Water

Analysis Batch: 775871

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	47.9		ug/L		96	70 - 130	3	30
Surrogate	%Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	98		70 - 130						
1,2-Dichloroethane-d4 (Surr)	109		60 - 124						
Dibromofluoromethane (Surr)	92		70 - 130						
4-Bromofluorobenzene (Surr)	110		70 - 130						

Method: 680 - Polychlorinated Biphenyls by GCMS

Lab Sample ID: MB 410-374605/1-A

Matrix: Water

Analysis Batch: 375831

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 374605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/15/23 12:46	1
Total Heptachlorobiphenyls	<0.30		0.30	0.040	ug/L		05/11/23 09:16	05/15/23 12:46	1
Total Hexachlorobiphenyls	<0.20		0.20	0.030	ug/L		05/11/23 09:16	05/15/23 12:46	1
Total Monochlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/15/23 12:46	1
Total Nonachlorobiphenyls	<0.50		0.50	0.20	ug/L		05/11/23 09:16	05/15/23 12:46	1
Total Octachlorobiphenyls	<0.30		0.30	0.050	ug/L		05/11/23 09:16	05/15/23 12:46	1
DCB Decachlorobiphenyl	<0.50		0.50	0.20	ug/L		05/11/23 09:16	05/15/23 12:46	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Method: 680 - Polychlorinated Biphenyls by GCMS (Continued)

Lab Sample ID: MB 410-374605/1-A

Matrix: Water

Analysis Batch: 375831

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 374605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Pentachlorobiphenyls	<0.20		0.20	0.030	ug/L		05/11/23 09:16	05/15/23 12:46	1
Total Tetrachlorobiphenyls	<0.20		0.20	0.030	ug/L		05/11/23 09:16	05/15/23 12:46	1
Total Trichlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/15/23 12:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-52L	79		20 - 120	05/11/23 09:16	05/15/23 12:46	1
PCB-138L	74		20 - 127	05/11/23 09:16	05/15/23 12:46	1

Lab Sample ID: LCS 410-374605/2-A

Matrix: Water

Analysis Batch: 376253

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 374605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dichlorobiphenyls	1.25	0.668		ug/L		53	50 - 120
Total Heptachlorobiphenyls	3.76	2.89		ug/L		77	53 - 120
Total Hexachlorobiphenyls	2.51	2.02		ug/L		81	52 - 120
Total Monochlorobiphenyls	1.25	0.608		ug/L		49	46 - 120
Total Octachlorobiphenyls	3.75	3.01		ug/L		80	53 - 120
DCB Decachlorobiphenyl	6.28	6.18		ug/L		98	41 - 173
Total Pentachlorobiphenyls	2.50	1.87		ug/L		75	52 - 120
Total Tetrachlorobiphenyls	2.50	1.58		ug/L		63	54 - 120
Total Trichlorobiphenyls	1.26	0.794		ug/L		63	48 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
PCB-52L	68		20 - 120
PCB-138L	70		20 - 127

Lab Sample ID: LCSD 410-374605/3-A

Matrix: Water

Analysis Batch: 375831

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 374605

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dichlorobiphenyls	1.25	0.672		ug/L					
Total Heptachlorobiphenyls	3.76	2.80		ug/L					
Total Hexachlorobiphenyls	2.51	1.96		ug/L					
Total Monochlorobiphenyls	1.25	0.612		ug/L					
Total Octachlorobiphenyls	3.75	2.76		ug/L					
DCB Decachlorobiphenyl	6.28	5.74		ug/L					
Total Pentachlorobiphenyls	2.50	1.78		ug/L					
Total Tetrachlorobiphenyls	2.50	1.56		ug/L					
Total Trichlorobiphenyls	1.26	0.767		ug/L					

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
PCB-52L			
PCB-138L			

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-781523/9-A

Matrix: Water

Analysis Batch: 781978

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 781523

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		06/01/23 19:00	06/05/23 18:45	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		06/01/23 19:00	06/05/23 18:45	1
PCB-1221	<0.50		0.50	0.090	ug/L		06/01/23 19:00	06/05/23 18:45	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		06/01/23 19:00	06/05/23 18:45	1
PCB-1232	<0.50		0.50	0.090	ug/L		06/01/23 19:00	06/05/23 18:45	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		06/01/23 19:00	06/05/23 18:45	1
PCB-1242	<0.50		0.50	0.090	ug/L		06/01/23 19:00	06/05/23 18:45	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		06/01/23 19:00	06/05/23 18:45	1
PCB-1248	<0.50		0.50	0.090	ug/L		06/01/23 19:00	06/05/23 18:45	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		06/01/23 19:00	06/05/23 18:45	1
PCB-1254	<0.50		0.50	0.090	ug/L		06/01/23 19:00	06/05/23 18:45	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		06/01/23 19:00	06/05/23 18:45	1
PCB-1260	<0.50		0.50	0.060	ug/L		06/01/23 19:00	06/05/23 18:45	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		06/01/23 19:00	06/05/23 18:45	1
PCB-1268	<0.50		0.50	0.090	ug/L		06/01/23 19:00	06/05/23 18:45	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		06/01/23 19:00	06/05/23 18:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	48		14 - 130	06/01/23 19:00	06/05/23 18:45	1
Tetrachloro-m-xylene	67		40 - 130	06/01/23 19:00	06/05/23 18:45	1

Lab Sample ID: LCS 680-781523/10-A

Matrix: Water

Analysis Batch: 781978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 781523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	3.00	2.65		ug/L		88	44 - 130
PCB-1016, Dissolved	3.00	2.65		ug/L		88	44 - 130
PCB-1260	3.00	2.94		ug/L		98	35 - 130
PCB-1260, Dissolved	3.00	2.94		ug/L		98	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	67		14 - 130
Tetrachloro-m-xylene	58		40 - 130

Lab Sample ID: LCSD 680-781523/11-A

Matrix: Water

Analysis Batch: 781978

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 781523

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	3.00	2.33		ug/L		78	44 - 130	13	30
PCB-1016, Dissolved	3.00	2.33		ug/L		78	44 - 130	13	30
PCB-1260	3.00	2.71		ug/L		90	35 - 130	8	40
PCB-1260, Dissolved	3.00	2.71		ug/L		90	35 - 130	8	40

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 680-781523/11-A
Matrix: Water
Analysis Batch: 781978

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 781523

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	66		14 - 130
Tetrachloro-m-xylene	51		40 - 130

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-774091/1-A
Matrix: Water
Analysis Batch: 774341

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 774091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.00030	mg/L		04/19/23 05:46	04/19/23 12:57	1
Manganese	<0.010		0.010	0.0013	mg/L		04/19/23 05:46	04/19/23 12:57	1

Lab Sample ID: LCS 680-774091/2-A
Matrix: Water
Analysis Batch: 774341

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 774091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0527		mg/L		105	80 - 120
Manganese	0.400	0.410		mg/L		103	80 - 120

Lab Sample ID: 680-233701-1 MS
Matrix: Water
Analysis Batch: 774341

Client Sample ID: OW-10
Prep Type: Total Recoverable
Prep Batch: 774091

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0041		0.0500	0.0526		mg/L		97	75 - 125
Manganese	1.1		0.400	1.52		mg/L		95	75 - 125

Lab Sample ID: 680-233701-1 MSD
Matrix: Water
Analysis Batch: 774341

Client Sample ID: OW-10
Prep Type: Total Recoverable
Prep Batch: 774091

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	0.0041		0.0500	0.0520		mg/L		96	75 - 125	1	20
Manganese	1.1		0.400	1.48		mg/L		85	75 - 125	3	20

Lab Sample ID: MB 680-774095/1-A
Matrix: Water
Analysis Batch: 774341

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 774095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium, Dissolved	<0.0040		0.0040	0.00030	mg/L		04/19/23 06:32	04/19/23 15:42	1
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/19/23 06:32	04/19/23 15:42	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-774095/2-A

Matrix: Water

Analysis Batch: 774341

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 774095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium, Dissolved	0.0500	0.0535		mg/L		107	80 - 120
Manganese, Dissolved	0.400	0.418		mg/L		104	80 - 120

Lab Sample ID: 680-233701-8 MS

Matrix: Water

Analysis Batch: 774341

Client Sample ID: WEL-01F

Prep Type: Dissolved

Prep Batch: 774095

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese, Dissolved	0.013		0.400	0.440		mg/L		107	75 - 125

Lab Sample ID: 680-233701-8 MSD

Matrix: Water

Analysis Batch: 774341

Client Sample ID: WEL-01F

Prep Type: Dissolved

Prep Batch: 774095

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese, Dissolved	0.013		0.400	0.428		mg/L		104	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-774246/1-A

Matrix: Water

Analysis Batch: 774463

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 774246

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/19/23 14:44	04/20/23 09:53	1
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/19/23 14:44	04/20/23 09:53	1

Lab Sample ID: LCS 680-774246/2-A

Matrix: Water

Analysis Batch: 774463

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774246

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: 680-233701-1 MS

Matrix: Water

Analysis Batch: 774463

Client Sample ID: OW-10

Prep Type: Total/NA

Prep Batch: 774246

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0042		0.00100	0.00518	4	mg/L		97	80 - 120

Lab Sample ID: 680-233701-1 MSD

Matrix: Water

Analysis Batch: 774463

Client Sample ID: OW-10

Prep Type: Total/NA

Prep Batch: 774246

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0042		0.00100	0.00527	4	mg/L		106	80 - 120	2	20

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

GC/MS VOA

Analysis Batch: 775635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233701-1	OW-10	Total/NA	Water	8260D	
MB 680-775635/9	Method Blank	Total/NA	Water	8260D	
LCS 680-775635/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-775635/6	Lab Control Sample Dup	Total/NA	Water	8260D	
680-233701-1 MS	OW-10	Total/NA	Water	8260D	
680-233701-1 MSD	OW-10	Total/NA	Water	8260D	

Analysis Batch: 775776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233701-17	Trip Blank 20230417	Total/NA	Water	8260D	
MB 680-775776/7	Method Blank	Total/NA	Water	8260D	
LCS 680-775776/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-775776/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 775871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233701-3	Field Duplicate 3	Total/NA	Water	8260D	
MB 680-775871/9	Method Blank	Total/NA	Water	8260D	
LCS 680-775871/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-775871/6	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 374605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233701-5	OWR-13	Total/NA	Water	680	
680-233701-6	OWR-13F	Dissolved	Water	680	
680-233701-11	OWR-14D	Total/NA	Water	680	
680-233701-12	OWR-14DF	Dissolved	Water	680	
680-233701-13	Field Duplicate 2	Total/NA	Water	680	
680-233701-14	Field Duplicate 2F	Dissolved	Water	680	
680-233701-15	T-18	Total/NA	Water	680	
680-233701-15 - DL	T-18	Total/NA	Water	680	
680-233701-16	T-18F	Dissolved	Water	680	
MB 410-374605/1-A	Method Blank	Total/NA	Water	680	
LCS 410-374605/2-A	Lab Control Sample	Total/NA	Water	680	
LCSD 410-374605/3-A	Lab Control Sample Dup	Total/NA	Water	680	

Analysis Batch: 375831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233701-5	OWR-13	Total/NA	Water	680	374605
680-233701-6	OWR-13F	Dissolved	Water	680	374605
680-233701-11	OWR-14D	Total/NA	Water	680	374605
680-233701-12	OWR-14DF	Dissolved	Water	680	374605
680-233701-13	Field Duplicate 2	Total/NA	Water	680	374605
680-233701-14	Field Duplicate 2F	Dissolved	Water	680	374605
MB 410-374605/1-A	Method Blank	Total/NA	Water	680	374605
LCSD 410-374605/3-A	Lab Control Sample Dup	Total/NA	Water	680	374605

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

GC/MS Semi VOA

Analysis Batch: 375832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233701-16	T-18F	Dissolved	Water	680	374605

Analysis Batch: 376253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233701-15	T-18	Total/NA	Water	680	374605
680-233701-15 - DL	T-18	Total/NA	Water	680	374605
LCS 410-374605/2-A	Lab Control Sample	Total/NA	Water	680	374605

GC Semi VOA

Prep Batch: 781523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233701-5	OWR-13	Total/NA	Water	3520C	
680-233701-6	OWR-13F	Dissolved	Water	3520C	
680-233701-11	OWR-14D	Total/NA	Water	3520C	
680-233701-12	OWR-14DF	Dissolved	Water	3520C	
680-233701-13	Field Duplicate 2	Total/NA	Water	3520C	
680-233701-14	Field Duplicate 2F	Dissolved	Water	3520C	
MB 680-781523/9-A	Method Blank	Total/NA	Water	3520C	
LCS 680-781523/10-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-781523/11-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 781978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233701-5	OWR-13	Total/NA	Water	8081B/8082A	781523
680-233701-6	OWR-13F	Dissolved	Water	8081B/8082A	781523
680-233701-11	OWR-14D	Total/NA	Water	8081B/8082A	781523
680-233701-12	OWR-14DF	Dissolved	Water	8081B/8082A	781523
680-233701-13	Field Duplicate 2	Total/NA	Water	8081B/8082A	781523
680-233701-14	Field Duplicate 2F	Dissolved	Water	8082A	781523
MB 680-781523/9-A	Method Blank	Total/NA	Water	8081B/8082A	781523
LCS 680-781523/10-A	Lab Control Sample	Total/NA	Water	8081B/8082A	781523
LCSD 680-781523/11-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	781523

Metals

Prep Batch: 774091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233701-1	OW-10	Total Recoverable	Water	3005A	
680-233701-3	Field Duplicate 3	Total Recoverable	Water	3005A	
680-233701-7	WEL-01	Total Recoverable	Water	3005A	
680-233701-9	T-04	Total Recoverable	Water	3005A	
680-233701-11	OWR-14D	Total Recoverable	Water	3005A	
680-233701-13	Field Duplicate 2	Total Recoverable	Water	3005A	
680-233701-18	T-20	Total Recoverable	Water	3005A	
MB 680-774091/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-774091/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-233701-1 MS	OW-10	Total Recoverable	Water	3005A	
680-233701-1 MSD	OW-10	Total Recoverable	Water	3005A	

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Metals

Prep Batch: 774095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233701-2	OW-10F	Dissolved	Water	3005A	
680-233701-4	Field Duplicate 3F	Dissolved	Water	3005A	
680-233701-8	WEL-01F	Dissolved	Water	3005A	
680-233701-10	T-04F	Dissolved	Water	3005A	
680-233701-12	OWR-14DF	Dissolved	Water	3005A	
680-233701-14	Field Duplicate 2F	Dissolved	Water	3005A	
680-233701-19	T-20F	Dissolved	Water	3005A	
MB 680-774095/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-774095/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-233701-8 MS	WEL-01F	Dissolved	Water	3005A	
680-233701-8 MSD	WEL-01F	Dissolved	Water	3005A	

Prep Batch: 774246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233701-1	OW-10	Total/NA	Water	7470A	
680-233701-2	OW-10F	Dissolved	Water	7470A	
680-233701-3	Field Duplicate 3	Total/NA	Water	7470A	
680-233701-4	Field Duplicate 3F	Dissolved	Water	7470A	
680-233701-18	T-20	Total/NA	Water	7470A	
MB 680-774246/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-774246/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-233701-1 MS	OW-10	Total/NA	Water	7470A	
680-233701-1 MSD	OW-10	Total/NA	Water	7470A	

Analysis Batch: 774341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233701-1	OW-10	Total Recoverable	Water	6010D	774091
680-233701-2	OW-10F	Dissolved	Water	6010D	774095
680-233701-3	Field Duplicate 3	Total Recoverable	Water	6010D	774091
680-233701-4	Field Duplicate 3F	Dissolved	Water	6010D	774095
680-233701-7	WEL-01	Total Recoverable	Water	6010D	774091
680-233701-8	WEL-01F	Dissolved	Water	6010D	774095
680-233701-9	T-04	Total Recoverable	Water	6010D	774091
680-233701-10	T-04F	Dissolved	Water	6010D	774095
680-233701-11	OWR-14D	Total Recoverable	Water	6010D	774091
680-233701-12	OWR-14DF	Dissolved	Water	6010D	774095
680-233701-13	Field Duplicate 2	Total Recoverable	Water	6010D	774091
680-233701-14	Field Duplicate 2F	Dissolved	Water	6010D	774095
680-233701-18	T-20	Total Recoverable	Water	6010D	774091
680-233701-19	T-20F	Dissolved	Water	6010D	774095
MB 680-774091/1-A	Method Blank	Total Recoverable	Water	6010D	774091
MB 680-774095/1-A	Method Blank	Total Recoverable	Water	6010D	774095
LCS 680-774091/2-A	Lab Control Sample	Total Recoverable	Water	6010D	774091
LCS 680-774095/2-A	Lab Control Sample	Total Recoverable	Water	6010D	774095
680-233701-1 MS	OW-10	Total Recoverable	Water	6010D	774091
680-233701-1 MSD	OW-10	Total Recoverable	Water	6010D	774091
680-233701-8 MS	WEL-01F	Dissolved	Water	6010D	774095
680-233701-8 MSD	WEL-01F	Dissolved	Water	6010D	774095

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Metals

Analysis Batch: 774463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233701-1	OW-10	Total/NA	Water	7470A	774246
680-233701-2	OW-10F	Dissolved	Water	7470A	774246
680-233701-3	Field Duplicate 3	Total/NA	Water	7470A	774246
680-233701-4	Field Duplicate 3F	Dissolved	Water	7470A	774246
680-233701-18	T-20	Total/NA	Water	7470A	774246
MB 680-774246/1-A	Method Blank	Total/NA	Water	7470A	774246
LCS 680-774246/2-A	Lab Control Sample	Total/NA	Water	7470A	774246
680-233701-1 MS	OW-10	Total/NA	Water	7470A	774246
680-233701-1 MSD	OW-10	Total/NA	Water	7470A	774246

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Client Sample ID: OW-10

Lab Sample ID: 680-233701-1

Date Collected: 04/14/23 11:39

Matrix: Water

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	775635	04/27/23 21:03	Y1S	EET SAV
	Instrument ID: CMSU									
Total Recoverable	Prep	3005A			25 mL	25 mL	774091	04/19/23 05:46	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774341	04/19/23 13:03	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	774246	04/19/23 14:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			774463	04/20/23 09:56	JKL	EET SAV
	Instrument ID: QuickTrace2									

Client Sample ID: OW-10F

Lab Sample ID: 680-233701-2

Date Collected: 04/14/23 11:39

Matrix: Water

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			25 mL	25 mL	774095	04/19/23 06:32	RR	EET SAV
Dissolved	Analysis	6010D		1			774341	04/19/23 16:05	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	7470A			50 mL	50 mL	774246	04/19/23 14:44	JKL	EET SAV
Dissolved	Analysis	7470A		5			774463	04/20/23 10:40	JKL	EET SAV
	Instrument ID: QuickTrace2									

Client Sample ID: Field Duplicate 3

Lab Sample ID: 680-233701-3

Date Collected: 04/14/23 00:00

Matrix: Water

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	775871	04/28/23 14:19	Y1S	EET SAV
	Instrument ID: CMSC									
Total Recoverable	Prep	3005A			25 mL	25 mL	774091	04/19/23 05:46	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774341	04/19/23 13:40	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	774246	04/19/23 14:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			774463	04/20/23 10:02	JKL	EET SAV
	Instrument ID: QuickTrace2									

Client Sample ID: Field Duplicate 3F

Lab Sample ID: 680-233701-4

Date Collected: 04/14/23 00:00

Matrix: Water

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			25 mL	25 mL	774095	04/19/23 06:32	RR	EET SAV
Dissolved	Analysis	6010D		1			774341	04/19/23 16:08	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	7470A			50 mL	50 mL	774246	04/19/23 14:44	JKL	EET SAV
Dissolved	Analysis	7470A		5			774463	04/20/23 10:41	JKL	EET SAV
	Instrument ID: QuickTrace2									

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Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Client Sample ID: OWR-13

Lab Sample ID: 680-233701-5

Date Collected: 04/14/23 15:48

Matrix: Water

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	680			1036 mL	1.0 mL	374605	05/11/23 09:16	UBKG	ELLE
Total/NA	Analysis	680		1	1 mg/L	1 mg/L	375831	05/15/23 18:06	UAD3	ELLE
Instrument ID: 21949										
Total/NA	Prep	3520C			1016.9 mL	5 mL	781523	06/01/23 19:00	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	781978	06/05/23 19:29	UI	EET SAV
Instrument ID: CSGZ										

Client Sample ID: OWR-13F

Lab Sample ID: 680-233701-6

Date Collected: 04/14/23 15:48

Matrix: Water

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	680			1022.2 mL	1.0 mL	374605	05/11/23 09:16	UBKG	ELLE
Dissolved	Analysis	680		1	1 mg/L	1 mg/L	375831	05/15/23 18:31	UAD3	ELLE
Instrument ID: 21949										
Dissolved	Prep	3520C			1023.6 mL	5 mL	781523	06/01/23 19:00	IR	EET SAV
Dissolved	Analysis	8081B/8082A		1	1 mL	1 mL	781978	06/05/23 19:44	UI	EET SAV
Instrument ID: CSGZ										

Client Sample ID: WEL-01

Lab Sample ID: 680-233701-7

Date Collected: 04/15/23 11:01

Matrix: Water

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	774091	04/19/23 05:46	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774341	04/19/23 13:43	BJB	EET SAV
Instrument ID: ICPH										

Client Sample ID: WEL-01F

Lab Sample ID: 680-233701-8

Date Collected: 04/15/23 11:01

Matrix: Water

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			25 mL	25 mL	774095	04/19/23 06:32	RR	EET SAV
Dissolved	Analysis	6010D		1			774341	04/19/23 15:49	BJB	EET SAV
Instrument ID: ICPH										

Client Sample ID: T-04

Lab Sample ID: 680-233701-9

Date Collected: 04/15/23 12:50

Matrix: Water

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	774091	04/19/23 05:46	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774341	04/19/23 13:50	BJB	EET SAV
Instrument ID: ICPH										

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Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Client Sample ID: T-04F

Date Collected: 04/15/23 12:50

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233701-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			25 mL	25 mL	774095	04/19/23 06:32	RR	EET SAV
Dissolved	Analysis	6010D		1			774341	04/19/23 16:12	BJB	EET SAV
Instrument ID: ICPH										

Client Sample ID: OWR-14D

Date Collected: 04/14/23 11:48

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233701-11

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	680			1006.7 mL	1.0 mL	374605	05/11/23 09:16	UBKG	ELLE
Total/NA	Analysis	680		1	1 mg/L	1 mg/L	375831	05/15/23 18:55	UAD3	ELLE
Instrument ID: 21949										
Total/NA	Prep	3520C			1008 mL	5 mL	781523	06/01/23 19:00	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	781978	06/05/23 19:59	UI	EET SAV
Instrument ID: CSGZ										
Total Recoverable	Prep	3005A			25 mL	25 mL	774091	04/19/23 05:46	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774341	04/19/23 13:36	BJB	EET SAV
Instrument ID: ICPH										

Client Sample ID: OWR-14DF

Date Collected: 04/14/23 11:48

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233701-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	680			1036.6 mL	1.0 mL	374605	05/11/23 09:16	UBKG	ELLE
Dissolved	Analysis	680		1	1 mg/L	1 mg/L	375831	05/15/23 19:20	UAD3	ELLE
Instrument ID: 21949										
Dissolved	Prep	3520C			1056.5 mL	5 mL	781523	06/01/23 19:00	IR	EET SAV
Dissolved	Analysis	8081B/8082A		1	1 mL	1 mL	781978	06/05/23 20:14	UI	EET SAV
Instrument ID: CSGZ										
Dissolved	Prep	3005A			25 mL	25 mL	774095	04/19/23 06:32	RR	EET SAV
Dissolved	Analysis	6010D		1			774341	04/19/23 16:15	BJB	EET SAV
Instrument ID: ICPH										

Client Sample ID: Field Duplicate 2

Date Collected: 04/14/23 00:00

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233701-13

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	680			1014.2 mL	1.0 mL	374605	05/11/23 09:16	UBKG	ELLE
Total/NA	Analysis	680		1	1 mg/L	1 mg/L	375831	05/15/23 19:44	UAD3	ELLE
Instrument ID: 21949										
Total/NA	Prep	3520C			989.3 mL	5 mL	781523	06/01/23 19:00	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	781978	06/05/23 20:29	UI	EET SAV
Instrument ID: CSGZ										

Eurofins Savannah

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Client Sample ID: Field Duplicate 2

Date Collected: 04/14/23 00:00

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233701-13

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			25 mL	25 mL	774091	04/19/23 05:46	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774341	04/19/23 13:46	BJB	EET SAV
Instrument ID: ICPH										

Client Sample ID: Field Duplicate 2F

Date Collected: 04/14/23 00:00

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233701-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	680			1033.7 mL	1.0 mL	374605	05/11/23 09:16	UBKG	ELLE
Dissolved	Analysis	680		1	1 mg/L	1 mg/L	375831	05/15/23 20:09	UAD3	ELLE
Instrument ID: 21949										
Dissolved	Prep	3520C			1034.2 mL	5 mL	781523	06/01/23 19:00	IR	EET SAV
Dissolved	Analysis	8082A		1	1 mL	1 mL	781978	06/05/23 20:44	UI	EET SAV
Instrument ID: CSGZ										
Dissolved	Prep	3005A			25 mL	25 mL	774095	04/19/23 06:32	RR	EET SAV
Dissolved	Analysis	6010D		1			774341	04/19/23 16:18	BJB	EET SAV
Instrument ID: ICPH										

Client Sample ID: T-18

Date Collected: 04/14/23 16:13

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233701-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	680			1022.1 mL	1.0 mL	374605	05/11/23 09:16	UBKG	ELLE
Total/NA	Analysis	680		1	1 mg/L	1 mg/L	376253	05/16/23 14:25	UAD3	ELLE
Instrument ID: 21949										
Total/NA	Prep	680	DL		1022.1 mL	1.0 mL	374605	05/11/23 09:16	UBKG	ELLE
Total/NA	Analysis	680	DL	10	1 mg/L	1 mg/L	376253	05/16/23 14:50	UAD3	ELLE
Instrument ID: 21949										

Client Sample ID: T-18F

Date Collected: 04/14/23 16:13

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233701-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	680			1042.4 mL	1.0 mL	374605	05/11/23 09:16	UBKG	ELLE
Dissolved	Analysis	680		1	1 mg/L	1 mg/L	375832	05/16/23 00:52	UAD3	ELLE
Instrument ID: 21949										

Eurofins Savannah

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Client Sample ID: Trip Blank 20230417

Lab Sample ID: 680-233701-17

Date Collected: 04/17/23 08:00

Matrix: Water

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	775776	04/27/23 19:51	Y1S	EET SAV
Instrument ID: CMSB										

Client Sample ID: T-20

Lab Sample ID: 680-233701-18

Date Collected: 04/16/23 12:07

Matrix: Water

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	774091	04/19/23 05:46	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774341	04/19/23 13:30	BJB	EET SAV
Instrument ID: ICPH										
Total/NA	Prep	7470A			50 mL	50 mL	774246	04/19/23 14:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			774463	04/20/23 10:06	JKL	EET SAV
Instrument ID: QuickTrace2										

Client Sample ID: T-20F

Lab Sample ID: 680-233701-19

Date Collected: 04/16/23 12:07

Matrix: Water

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			25 mL	25 mL	774095	04/19/23 06:32	RR	EET SAV
Dissolved	Analysis	6010D		1			774341	04/19/23 16:22	BJB	EET SAV
Instrument ID: ICPH										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Savannah

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-23

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	<cert No.>	01-31-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	05-17-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	05-31-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	05-22-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	05-29-23
Iowa	State	361	05-17-23
Kansas	NELAP	E-10151	05-29-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	05-18-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-24
Massachusetts	State	M-PA009	05-24-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	05-30-23
New York	NELAP	10670	05-22-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	05-18-23
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24

Eurofins Savannah

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704194-23-46	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
Washington	State	C457	04-11-24
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233701-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
680	Polychlorinated Biphenyls by GCMS	EPA	ELLE
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	EET SAV
8082A	PCBs	SW846	EET SAV
6010D	Metals (ICP)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Mercury (Dissolved)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
680	Polychlorinated Biphenyls by GCMS Preparation for Liquids	EPA	ELLE
7470A	Preparation, Mercury	SW846	EET 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:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404

Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

244-ATLANTA

eurofins

Environment Testing

Client Information Client Contact: Jessica Alanis Company: GSI Environmental, Inc. Address: 2211 Norfolk, Suite 1000 City: Houston State, Zip: TX, 77098-4044 Phone: 713-522-6300 (Tel) Email: JAlanis@gst-net.com Project Name: Anniston CERCLA April 2023 Site:		Sampler: EGIK, JA, JSC Phone: 713-522-6300 Lab PM: Savole, Noel E-Mail: Noel.Savole@eurofins.com PWSID:	Carrier Tracking No(s): 680-145369-52712.6 State of Origin: Job #: 6497	COC No: 680-145369-52712.6 Page: 1 of 2 Page 6 of 8			
Due Date Requested: TAT Requested (days): standard Compliance Project: ☐ Yes ☒ No PO #: 54931065 WO #: Project #: 68020284 SSOW#:		Analysis Requested 6010D - Dissolved Manganese/Beryllium - FF 6010D - Dissolved Manganese - FF 6010D - Dissolved Manganese - Field Filtered 6010D - 7470 - Manganese/Mercury Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)					
Sample Identification Field Duplicate 2FF OW-10 QWR-46D-EE OW-10F Field Duplicate 3 Field Duplicate 3F OW-13 OW-13F WEL-01 WEL-01F Field Duplicate 3 T-04 T-04F OW-14D	Sample Date 4/14/23 4/14/23 4/14/23 4/14/23 4/14/23 4/15/23 4/15/23 4/15/23 4/15/23 4/14/23	Sample Time 1139 1139 - - 1548 1548 1101 1101 1250 1250 1148	Sample Type (C=Comp, G=grab) G G G G G G G G G G	Matrix (Water, Solid, On-site/Off-site) Water Water Water Water Water Water Water Water Water Water	Preservation Code: G G G G G G G G G G G	Total Number of Containers 10 3 6 3 4 4 3 3 3 3 3 5	Special Instructions/Note: 680-233701 Chain of Custody
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological Deliverable Requested: (I, II, III, IV, Other (specify))		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months					
Empty Kit Relinquished by: Relinquished by: JESSICA ALANIS Relinquished by: Relinquished by:		Method of Shipment: Received by: GSI Date/Time: 4/17/23 9:00 Date/Time: Date/Time:					
Custody Seal No. ☐ Yes ☒ No		Cooler Temperature(s) °C and Other Remarks: 0.0/0.0 3.4/4.5 2.6/3.2 1.2/1.8 0.6/0.2 3.1/3.7 0.2/0.8 3.1/3.7 Ver 06/08/2021					

Chain of Custody Record

244-ATLANTA

Client Information Client Contact: Jessica Alanis Company: GSI Environmental, Inc Address: 22211 Norfolk, Suite 1000 City: Houston State, Zip: TX, 77098-4044 Phone: 713-522-6300(Tel) Email: JAlanis@gsi-net.com Project Name: Anniston CERCLA April 2023 Site:			Lab PM: Savoie, Noel E-Mail: Noel.Savoie@et.eurofinsus.com State of Origin:		Carrier Tracking No(s): 680-145369-52712.5 Page: 2 of 2 Job #: 6497	
Analysis Requested Due Date Requested: TAT Requested (days): standard Compliance Project: ☐ Yes ☒ No PO #: 54931065 WO #: Project #: 68020284 SSOW#:			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 Other:			
Sample Identification Field Duplicate 2 EF OWR-140F Field Duplicate 2F T-18 T-18F Trip Blank 20230417 T-20 T-20F Field Duplicate 3 T-20-			Sample Date 4/14/23 4/14/23 4/14/23 4/14/23 4/17/23 4/16/23 4/16/23		Sample Time 1143 - - 1613 1613 800 1207 1207	
Sample Type (C=Comp, G=grab) G G G G - G G			Matrix (W=water, S=solid, O=soil, T=tissue, A=air) Water Water Water Water Water Water Water		Field Filtered Sample (Yes or No) X X X X X X X	
Perform MS/MSD (Yes or No) X X X X X X X			6010D - Manganese/Barythene/Trichloroethylene 6010D - 7470 - Manganese/Beryllium/Mercury - FF 6010D - 8082A - PCB 6010D - 8082A - PCB 6010D - 7470 - Manganese/Beryllium/Mercury - FF 6010D - 8082A - PCB 6010D - Cobalt/Manganese 6010D - Dissolved Cobalt/Manganese-FF 680 - PCB Homologs 680 - Dissolved PCB Homologs - FF 6010D - Manganese 8141B - Parathion 8270D - 4-Nitrophenol 6010C - Dissolved Manganese - Field Filtered		Total Number of Containers 5 5 5 4 4 2 3 3	
Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note:			Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note:			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological Deliverable Requested I, II, III, IV, Other (specify)			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:			
Empty Kit Relinquished by: Relinquished by: Jessica Alanis Relinquished by: Relinquished by:			Date Date/Time: 4/17/23/ 900 Date/Time: Date/Time:			
Custody Seals Intact: A Yes A No Custody Seal No.			Date Date/Time: 4/17/23/ 900 Date/Time: Date/Time:			

CB

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-233701-1

Login Number: 233701

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	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 $<6\text{mm}$ (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: 680-233701-1

Login Number: 233701

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 2

List Creation: 04/20/23 01:04 PM

Creator: Burkholder, Conrad

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
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 ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Containers recd broken. Sufficient sample in remaining containers for analysis.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	N/A	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc.
 Project Name: RCRA Groundwater Monitoring
 Reviewer: Ellen Kainer

Project Manager: Noel Savoie
 Project Number: 680-233705-1
 Validation Date: 09/25/2023

Laboratory: Eurofins Savannah, Eurofins Denver SDG #: 680-233705-1
 Analytical Method (type and no.): VOCs (8260D), SVOCS (8270D), PCBs (8081B/8082A), Pesticides (8141B)
 Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐
 Sample Names: MW-14, OW-08A, OW-08AF, OW-21A, OW-21AF, Trip Blank 20230417

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 20230417
g) Field parameters collected (note types)?	☒	☐	☐	Temp., pH, sp. cond., DO, ORP, turbidity
h) Field Calibration within control limits?	☒	☐	☐	
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	

MW-12A was originally sampled on 11 April 2023. Following a shipping delay and subsequent indication by FedEx that the sample cooler had been lost, MW-12A was resampled on 15 April 2023 and sent to the laboratory for analysis. Subsequently, the original cooler containing the 11 April 2023 samples arrived at the laboratory in good condition. This laboratory report (680-233705-1) contains sample results for the second set of samples collected from MW-12A on 15 April 2023. However, only the original results from MW-12A samples collected on 11 April 2023 (see Laboratory Report No. 680-233553) will be considered in this report.

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?	☐	☒	☐	Method 8141B in MW-14, OW-08A, and OW-21A was extracted outside of the 7-day holding time (8-9 days after sample collection). A strict interpretation of the NFG would reject the non-detect results of parathion and tetraethyldithiopyrophosphate; however, the results were qualified as estimated (UJ) based on professional judgement and the following lines of evidence: 1. These sample results are in line with expected results: tetraethyldithiopyrophosphate has never been detected in MW-14, and Parathion has only been detected once in MW-14 in the last ten years, just above the reporting limit; neither constituent has been detected in OW-08A in the previous ten years;

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

and tetraethyldithiopyrophosphate has not been detected in OW-21A in the previous 12 years. 2. The hold time exceedance is minor.

- | | | | | | |
|----|---|-------------------------------------|-------------------------------------|--------------------------|---|
| 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? | ☐ | ☒ | ☐ | <u>As a result of dilution, Parathion, 4-Nitrophenol, and Chlorobenzene in OW-21A did not achieve the appropriate RLs of 1.0, 25, and 1.0 ug/L, respectively. However, all compounds were detected above these limits, so no qualification is made on this basis.</u> |
| f) | Were any sample dilutions noted? | ☒ | ☐ | ☐ | <u>OW-21A underwent dilutions for Chlorobenzene (DF = 10), 4-Nitrophenol (DF = 100), and Parathion (DF=500).</u> |
| g) | Were any matrix problems noted? | ☒ | ☐ | ☐ | <u>MW-14 exhibited low turbidity and OW-21A was pale yellow in color.</u> |

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 LCS/LCSD pairs
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	All RPDs <13%

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?	☐	☒	☐	<u>Tetrachloro-m-xylene (TCX) recovered low (below the lab standard of 40%) for sample OW-21A for Aroclor analysis by method 8081B/8082A. However, this surrogate is not associated with the target analytes; therefore, no qualification is required. Triphenylphosphate recovered low (below the lab standard of 60% and below the NFG, 2020 lower acceptance limit of 10%) for sample OW-21A for pesticides analysis by method 8141B. However, this sample was diluted by a factor of 500; therefore, associated results are qualified J. Decachlorobiphenyl (DCB) recovered low (below the lab standard of 14% and below the expanded lower acceptance limit of 10%) for sample OW-21AF (6%) for Aroclor analysis by 8081B/8082A. A sample bottle broken by the laboratory prevented re-extraction. A strict interpretation of the NFG would reject these non-detect results of PCB Aroclors; however, the results were qualified as estimated (UJ) based on professional judgement since PCB Aroclors have not been detected in the filtered sample collected at OW-21A in the previous six years.</u>
b) Were surrogate recoveries not calculated due to dilutions?	☐	☒	☐	_____

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
MW-14	Parathion	<1.0 ug/L	UJ	Extracted outside holding time
MW-14	Tetraethyldithiopyrophosphate	<1.5 ug/L	UJ	Extracted outside holding time
OW-08A	Parathion	<1.0 ug/L	UJ	Extracted outside holding time
OW-08A	Tetraethyldithiopyrophosphate	<1.5 ug/L	UJ	Extracted outside holding time
OW-21A	Parathion	1900 ug/L	J	Extracted outside holding time; low triphenylphosphate surrogate recovery
OW-21A	Tetraethyldithiopyrophosphate	<1.5 ug/L	UJ	Extracted outside holding time
OW-21AF	PCB-1016	<0.5 ug/L	UJ	Low DCB surrogate recovery
OW-21AF	PCB-1221	<0.5 ug/L	UJ	Low DCB surrogate recovery
OW-21AF	PCB-1232	<0.5 ug/L	UJ	Low DCB surrogate recovery
OW-21AF	PCB-1242	<0.5 ug/L	UJ	Low DCB surrogate recovery
OW-21AF	PCB-1248	<0.5 ug/L	UJ	Low DCB surrogate recovery
OW-21AF	PCB-1254	<0.5 ug/L	UJ	Low DCB surrogate recovery
OW-21AF	PCB-1260	<0.5 ug/L	UJ	Low DCB surrogate recovery
OW-21AF	PCB-1268	<0.5 ug/L	UJ	Low DCB surrogate recovery

Signature: Ellen Fair

Date: 25 September 2023

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Noel Savoie
 Project Name: RCRA Groundwater Monitoring Project Number: 680-233705-1
 Reviewer: Ellen Kainer Validation Date: 09/25/2023
 Laboratory: Eurofins TestAmerica Savannah SDG #: 680-233705-1
 Analytical Method (type and no.): Metals (6010D), Mercury (7470A)
 Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐
 Sample Names: MW-14, OW-08A, OW-08AF, OW-21A, OW-21AF

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)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
h) Field Calibration within control limits?	☒	☐	☐	
i) Notations of unacceptable field conditions/performance 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 an 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)?	☐	☐	☒	

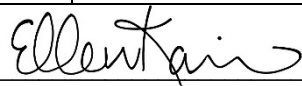
Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	
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?	☐	☐	☒	

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: 

Date: 25 September 2023

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
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Generated 8/7/2023 11:37:53 AM Revision 2

JOB DESCRIPTION

Anniston RCRA 2023

JOB NUMBER

680-233705-1

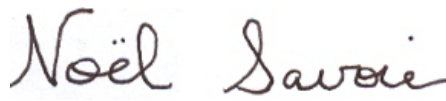
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Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

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.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Job ID: 680-233705-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-233705-1

Revision

The report being provided is a revision of the original report sent on 5/31/2023. The report (revision 1) is being revised due to client requested review of the PCB Aroclor data.

Receipt

The samples were received on 4/18/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.7°C, 1.9°C, 2.7°C and 3.3°C

GC/MS VOA

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-775776.

Method 8260D: The following sample was diluted due to the abundance of non-target analytes: OW-21A (680-233705-6). 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: The following analyte has been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: 4-Nitrophenol. This analyte may have a %D >20% but must be <50%. If >50%, a CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: OW-21A (680-233705-6). Elevated reporting limits (RLs) are provided.

Method 8270D: The following sample was analyzed outside of holding time per client request: MW-12A (680-233705-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8141B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-609783.

Method 8141B: The following sample: MW-14 (680-233705-1) exhibited low turbidity.

Method 8141B: The following samples were analyzed outside of holding time due to a scheduling error: MW-14 (680-233705-1), OW-08A (680-233705-4) and OW-21A (680-233705-6).

Method 8141B: The following sample: OW-21A (680-233705-6) was pale yellow in color.

Method 8141B: The following sample in preparation batch 280-609783 and analytical batch 280-611241 was diluted to bring the concentration of target analytes within the calibration range: OW-21A (680-233705-6). Elevated reporting limits (RLs) are provided.

Method 8141B: The following sample in preparation batch 280-609783 and analytical batch 280-611241 required a dilution due to the nature of the sample matrix: OW-21A (680-233705-6). 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.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Job ID: 680-233705-1 (Continued)

Laboratory: Eurofins Savannah (Continued)

Pesticides/PCBs

Method 8081B_8082A: Surrogate recovery for the following sample was outside of acceptance limits: OW-21AF (680-233705-7). There was insufficient sample to perform a re-extraction; therefore, the data has been qualified and reported. The second bottle was inadvertently broken in lab.

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.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-233705-1	MW-14	Water	04/15/23 11:13	04/18/23 10:00
680-233705-2	MW-12A	Water	04/15/23 12:24	04/18/23 10:00
680-233705-3	Trip Blank 20230417	Water	04/17/23 08:00	04/18/23 10:00
680-233705-4	OW-08A	Water	04/16/23 11:03	04/18/23 10:00
680-233705-5	OW-08AF	Water	04/16/23 11:03	04/18/23 10:00
680-233705-6	OW-21A	Water	04/16/23 10:57	04/18/23 10:00
680-233705-7	OW-21AF	Water	04/16/23 10:57	04/18/23 10:00

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Client Sample ID: MW-14

Lab Sample ID: 680-233705-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.020		0.010	0.0013	mg/L	1		6010D	Total Recoverable

Client Sample ID: MW-12A

Lab Sample ID: 680-233705-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o,o',o"-Triethylphosphorothioate	14	H	10	1.0	ug/L	1		8270D	Total/NA

Client Sample ID: Trip Blank 20230417

Lab Sample ID: 680-233705-3

No Detections.

Client Sample ID: OW-08A

Lab Sample ID: 680-233705-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	2.0	p	0.50	0.086	ug/L	1		8081B/8082A	Total/NA
PCB-1254	2.1		0.50	0.086	ug/L	1		8081B/8082A	Total/NA
PCB-1260	1.1		0.50	0.057	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: OW-08AF

Lab Sample ID: 680-233705-5

No Detections.

Client Sample ID: OW-21A

Lab Sample ID: 680-233705-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	8.5		1.5	1.5	ug/L	10		8260D	Total/NA
1,2-Dichlorobenzene	21		10	0.50	ug/L	1		8270D	Total/NA
o,o',o"-Triethylphosphorothioate	180		10	0.94	ug/L	1		8270D	Total/NA
4-Nitrophenol - DL	7900		180	180	ug/L	100		8270D	Total/NA
PCB-1221	16		0.50	0.088	ug/L	1		8081B/8082A	Total/NA
PCB-1248	40		0.50	0.088	ug/L	1		8081B/8082A	Total/NA
PCB-1260	2.7		0.50	0.059	ug/L	1		8081B/8082A	Total/NA
Parathion - DL	1900	H	71	71	ug/L	500		8141B	Total/NA
Cobalt	0.036		0.010	0.0014	mg/L	1		6010D	Total Recoverable
Manganese	0.90		0.010	0.0013	mg/L	1		6010D	Total Recoverable

Client Sample ID: OW-21AF

Lab Sample ID: 680-233705-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt, Dissolved	0.035		0.010	0.0014	mg/L	1		6010D	Dissolved
Manganese, Dissolved	0.89		0.010	0.0013	mg/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Client Sample ID: MW-14

Lab Sample ID: 680-233705-1

Date Collected: 04/15/23 11:13

Matrix: Water

Date Received: 04/18/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/27/23 21:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130					04/27/23 21:26	1
1,2-Dichloroethane-d4 (Surr)	92		60 - 124					04/27/23 21:26	1
Dibromofluoromethane (Surr)	107		70 - 130					04/27/23 21:26	1
4-Bromofluorobenzene (Surr)	93		70 - 130					04/27/23 21:26	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.50	ug/L		04/22/23 19:00	05/03/23 00:10	1
1,4-Dichlorobenzene	<10		10	0.51	ug/L		04/22/23 19:00	05/03/23 00:10	1
4-Nitrophenol	<25		25	1.8	ug/L		04/22/23 19:00	05/03/23 00:10	1
o,o',o"-Triethylphosphorothioate	<10		10	0.95	ug/L		04/22/23 19:00	05/03/23 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	49		32 - 113				04/22/23 19:00	05/03/23 00:10	1
2-Fluorophenol	38		26 - 109				04/22/23 19:00	05/03/23 00:10	1
Nitrobenzene-d5	48		32 - 118				04/22/23 19:00	05/03/23 00:10	1
Phenol-d5	39		27 - 110				04/22/23 19:00	05/03/23 00:10	1
Terphenyl-d14	38		10 - 126				04/22/23 19:00	05/03/23 00:10	1
2,4,6-Tribromophenol	50		39 - 124				04/22/23 19:00	05/03/23 00:10	1

Method: SW846 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		05/05/23 21:00	05/07/23 19:26	1
PCB-1221	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 19:26	1
PCB-1232	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 19:26	1
PCB-1242	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 19:26	1
PCB-1248	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 19:26	1
PCB-1254	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 19:26	1
PCB-1260	<0.50		0.50	0.058	ug/L		05/05/23 21:00	05/07/23 19:26	1
PCB-1268	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	21		14 - 130				05/05/23 21:00	05/07/23 19:26	1
Tetrachloro-m-xylene	57		40 - 130				05/05/23 21:00	05/07/23 19:26	1

Method: SW846 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		04/24/23 14:32	05/01/23 16:46	1
Tetraethyldithiopyrophosphate	<1.5	H	1.5	0.16	ug/L		04/24/23 14:32	05/01/23 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	74		60 - 154				04/24/23 14:32	05/01/23 16:46	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/19/23 05:46	04/19/23 13:33	1
Manganese	0.020		0.010	0.0013	mg/L		04/19/23 05:46	04/19/23 13:33	1

Eurofins Savannah

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Client Sample ID: MW-14

Date Collected: 04/15/23 11:13

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233705-1

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/19/23 14:44	04/20/23 10:12	1

Client Sample ID: MW-12A

Date Collected: 04/15/23 12:24

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233705-2

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25	H	25	2.0	ug/L		05/04/23 21:20	05/08/23 23:32	1
o,o',o"-Triethylphosphorothioate	14	H	10	1.0	ug/L		05/04/23 21:20	05/08/23 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	55		32 - 113	05/04/23 21:20	05/08/23 23:32	1
2-Fluorophenol	47		26 - 109	05/04/23 21:20	05/08/23 23:32	1
Nitrobenzene-d5	52		32 - 118	05/04/23 21:20	05/08/23 23:32	1
Phenol-d5	51		27 - 110	05/04/23 21:20	05/08/23 23:32	1
Terphenyl-d14	70		10 - 126	05/04/23 21:20	05/08/23 23:32	1
2,4,6-Tribromophenol	60		39 - 124	05/04/23 21:20	05/08/23 23:32	1

Client Sample ID: Trip Blank 20230417

Date Collected: 04/17/23 08:00

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233705-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/27/23 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		70 - 130		04/27/23 20:10	1
1,2-Dichloroethane-d4 (Surr)	99		60 - 124		04/27/23 20:10	1
Dibromofluoromethane (Surr)	107		70 - 130		04/27/23 20:10	1
4-Bromofluorobenzene (Surr)	107		70 - 130		04/27/23 20:10	1

Client Sample ID: OW-08A

Date Collected: 04/16/23 11:03

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233705-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/27/23 21:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		04/27/23 21:47	1
1,2-Dichloroethane-d4 (Surr)	94		60 - 124		04/27/23 21:47	1
Dibromofluoromethane (Surr)	108		70 - 130		04/27/23 21:47	1
4-Bromofluorobenzene (Surr)	94		70 - 130		04/27/23 21:47	1

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.20		0.20	0.20	ug/L		04/23/23 21:50	05/23/23 19:22	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Client Sample ID: OW-08A

Lab Sample ID: 680-233705-4

Date Collected: 04/16/23 11:03

Matrix: Water

Date Received: 04/18/23 10:00

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.52	ug/L		04/23/23 21:50	04/30/23 04:03	1
1,4-Dichlorobenzene	<10		10	0.53	ug/L		04/23/23 21:50	04/30/23 04:03	1
4-Nitrophenol	<25		25	1.9	ug/L		04/23/23 21:50	04/30/23 04:03	1
Indeno[1,2,3-cd]pyrene	<10		10	0.98	ug/L		04/23/23 21:50	04/30/23 04:03	1
o,o',o"-Triethylphosphorothioate	<10		10	0.98	ug/L		04/23/23 21:50	04/30/23 04:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		39 - 124	04/23/23 21:50	04/30/23 04:03	1
2-Fluorobiphenyl	51		32 - 113	04/23/23 21:50	04/30/23 04:03	1
2-Fluorophenol	42		26 - 109	04/23/23 21:50	04/30/23 04:03	1
Nitrobenzene-d5	54		32 - 118	04/23/23 21:50	04/30/23 04:03	1
Phenol-d5	43		27 - 110	04/23/23 21:50	04/30/23 04:03	1
Terphenyl-d14	47		10 - 126	04/23/23 21:50	04/30/23 04:03	1

Method: SW846 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		05/05/23 21:00	05/07/23 19:41	1
PCB-1221	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 19:41	1
PCB-1232	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 19:41	1
PCB-1242	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 19:41	1
PCB-1248	2.0	p	0.50	0.086	ug/L		05/05/23 21:00	05/07/23 19:41	1
PCB-1254	2.1		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 19:41	1
PCB-1260	1.1		0.50	0.057	ug/L		05/05/23 21:00	05/07/23 19:41	1
PCB-1268	<0.50		0.50	0.086	ug/L		05/05/23 21:00	05/07/23 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	50		14 - 130	05/05/23 21:00	05/07/23 19:41	1
Tetrachloro-m-xylene	54		40 - 130	05/05/23 21:00	05/07/23 19:41	1

Method: SW846 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		04/24/23 14:32	05/01/23 17:25	1
Tetraethyldithiopyrophosphate	<1.5	H	1.5	0.16	ug/L		04/24/23 14:32	05/01/23 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	75		60 - 154	04/24/23 14:32	05/01/23 17:25	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/19/23 05:46	04/19/23 13:13	1
Manganese	<0.010		0.010	0.0013	mg/L		04/19/23 05:46	04/19/23 13:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/19/23 14:44	04/20/23 10:13	1

Eurofins Savannah

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Client Sample ID: OW-08AF

Lab Sample ID: 680-233705-5

Date Collected: 04/16/23 11:03

Matrix: Water

Date Received: 04/18/23 10:00

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 19:57	1
PCB-1221, Dissolved	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 19:57	1
PCB-1232, Dissolved	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 19:57	1
PCB-1242, Dissolved	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 19:57	1
PCB-1248, Dissolved	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 19:57	1
PCB-1254, Dissolved	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 19:57	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		05/05/23 21:00	05/07/23 19:57	1
PCB-1268, Dissolved	<0.50		0.50	0.087	ug/L		05/05/23 21:00	05/07/23 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	16		14 - 130				05/05/23 21:00	05/07/23 19:57	1
Tetrachloro-m-xylene	57		40 - 130				05/05/23 21:00	05/07/23 19:57	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/19/23 06:32	04/19/23 16:25	1
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/19/23 06:32	04/19/23 16:25	1

Method: SW846 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		04/19/23 14:44	04/20/23 10:15	1

Client Sample ID: OW-21A

Lab Sample ID: 680-233705-6

Date Collected: 04/16/23 10:57

Matrix: Water

Date Received: 04/18/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	8.5		1.5	1.5	ug/L			04/28/23 01:55	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130					04/28/23 01:55	10
1,2-Dichloroethane-d4 (Surr)	90		60 - 124					04/28/23 01:55	10
Dibromofluoromethane (Surr)	105		70 - 130					04/28/23 01:55	10
4-Bromofluorobenzene (Surr)	93		70 - 130					04/28/23 01:55	10

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	21		10	0.50	ug/L		04/23/23 21:50	05/03/23 21:00	1
1,4-Dichlorobenzene	<10		10	0.51	ug/L		04/23/23 21:50	05/03/23 21:00	1
o,o',o"-Triethylphosphorothioate	180		10	0.94	ug/L		04/23/23 21:50	05/03/23 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		32 - 113				04/23/23 21:50	05/03/23 21:00	1
2-Fluorophenol	49		26 - 109				04/23/23 21:50	05/03/23 21:00	1
Nitrobenzene-d5	65		32 - 118				04/23/23 21:50	05/03/23 21:00	1
Phenol-d5	52		27 - 110				04/23/23 21:50	05/03/23 21:00	1
Terphenyl-d14	47		10 - 126				04/23/23 21:50	05/03/23 21:00	1
2,4,6-Tribromophenol	82		39 - 124				04/23/23 21:50	05/03/23 21:00	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Client Sample ID: OW-21A

Lab Sample ID: 680-233705-6

Date Collected: 04/16/23 10:57

Matrix: Water

Date Received: 04/18/23 10:00

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	7900		180	180	ug/L		04/23/23 21:50	05/04/23 19:01	100

Method: SW846 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		05/05/23 21:00	05/07/23 20:13	1
PCB-1221	16		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 20:13	1
PCB-1232	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 20:13	1
PCB-1242	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 20:13	1
PCB-1248	40		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 20:13	1
PCB-1254	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 20:13	1
PCB-1260	2.7		0.50	0.059	ug/L		05/05/23 21:00	05/07/23 20:13	1
PCB-1268	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	27		14 - 130	05/05/23 21:00	05/07/23 20:13	1
Tetrachloro-m-xylene	35	S1-	40 - 130	05/05/23 21:00	05/07/23 20:13	1

Method: SW846 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetraethyldithiopyrophosphate	<1.5	H	1.5	0.17	ug/L		04/24/23 14:32	05/01/23 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	68		60 - 154	04/24/23 14:32	05/01/23 18:04	1

Method: SW846 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	1900	H	71	71	ug/L		04/24/23 14:32	05/04/23 14:55	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	0	D S1-	60 - 154	04/24/23 14:32	05/04/23 14:55	500

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.036		0.010	0.0014	mg/L		04/19/23 05:46	04/19/23 13:17	1
Manganese	0.90		0.010	0.0013	mg/L		04/19/23 05:46	04/19/23 13:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/19/23 14:44	04/20/23 10:16	1

Client Sample ID: OW-21AF

Lab Sample ID: 680-233705-7

Date Collected: 04/16/23 10:57

Matrix: Water

Date Received: 04/18/23 10:00

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 20:29	1
PCB-1221, Dissolved	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 20:29	1
PCB-1232, Dissolved	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 20:29	1
PCB-1242, Dissolved	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 20:29	1
PCB-1248, Dissolved	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 20:29	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Client Sample ID: OW-21AF

Lab Sample ID: 680-233705-7

Date Collected: 04/16/23 10:57

Matrix: Water

Date Received: 04/18/23 10:00

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254, Dissolved	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 20:29	1
PCB-1260, Dissolved	<0.50		0.50	0.059	ug/L		05/05/23 21:00	05/07/23 20:29	1
PCB-1268, Dissolved	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 20:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	6	p S1-	14 - 130				05/05/23 21:00	05/07/23 20:29	1
Tetrachloro-m-xylene	25	p S1-	40 - 130				05/05/23 21:00	05/07/23 20:29	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.035		0.010	0.0014	mg/L		04/19/23 06:32	04/19/23 16:28	1
Manganese, Dissolved	0.89		0.010	0.0013	mg/L		04/19/23 06:32	04/19/23 16:28	1

Method: SW846 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		04/19/23 14:44	04/20/23 10:18	1

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Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (70-130)	DCA (60-124)	DBFM (70-130)	BFB (70-130)
680-233705-1	MW-14	93	92	107	93
680-233705-3	Trip Blank 20230417	109	99	107	107
680-233705-4	OW-08A	93	94	108	94
680-233705-6	OW-21A	92	90	105	93
LCS 680-775776/3	Lab Control Sample	107	100	107	106
LCS 680-775781/3	Lab Control Sample	90	97	97	98
LCSD 680-775776/4	Lab Control Sample Dup	109	113	108	105
LCSD 680-775781/4	Lab Control Sample Dup	91	103	96	93
MB 680-775776/7	Method Blank	109	100	104	105
MB 680-775781/7	Method Blank	93	93	104	94

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (32-113)	2FP (26-109)	NBZ (32-118)	PHL (27-110)	TPHL (10-126)	TBP (39-124)
680-233705-1	MW-14	49	38	48	39	38	50
680-233705-2	MW-12A	55	47	52	51	70	60
680-233705-4	OW-08A	51	42	54	43	47	68
680-233705-6	OW-21A	66	49	65	52	47	82
LCS 680-774781/12-A	Lab Control Sample	64	49	61	53	69	76
LCS 680-774781/9-A	Lab Control Sample	62	50	61	53	70	74
LCS 680-774872/22-A	Lab Control Sample	65	53	59	56	77	87
LCS 680-774872/25-A	Lab Control Sample	66	54	66	59	74	81
LCS 680-777034/11-A	Lab Control Sample	68	55	69	61	69	69
LCS 680-777034/8-A	Lab Control Sample	71	54	69	57	75	72
LCSD 680-774872/26-A	Lab Control Sample Dup	71	54	70	56	71	84
MB 680-774781/8-A	Method Blank	50	39	48	41	72	55
MB 680-774872/21-A	Method Blank	68	56	72	45	81	76
MB 680-777034/7-A	Method Blank	68	52	66	52	73	61

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

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Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

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)	TCX2 (40-130)
680-233705-1	MW-14	21	57
LCS 680-777299/22-A	Lab Control Sample	62	63
MB 680-777299/21-A	Method Blank	42	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)

Lab Sample ID	Client Sample ID	DCBP2 (14-130)	TCX2 (40-130)
680-233705-4	OW-08A	50	54

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)
680-233705-6	OW-21A	27	35 S1-

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)

Lab Sample ID	Client Sample ID	DCBP1 (14-130)	TCX2 (40-130)
680-233705-5	OW-08AF	16	57

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

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Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas

Chromatography

Matrix: Water

Prep Type: Dissolved

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (14-130)	TCX1 (40-130)
680-233705-7	OW-21AF	6 p S1-	25 p S1-
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)	
Lab Sample ID	Client Sample ID	TPP1 (60-154)	
680-233705-1	MW-14	74	
680-233705-4	OW-08A	75	
680-233705-6	OW-21A	68	
680-233705-6 - DL	OW-21A	0 D S1-	
LCS 280-609783/2-A	Lab Control Sample	85	
LCSD 280-609783/25-A	Lab Control Sample Dup	88	
MB 280-609783/1-A	Method Blank	74	
Surrogate Legend			
TPP = Triphenylphosphate			

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-775776/7

Matrix: Water

Analysis Batch: 775776

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	0.15	ug/L			04/27/23 19:30	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		70 - 130					04/27/23 19:30	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 124					04/27/23 19:30	1
Dibromofluoromethane (Surr)	104		70 - 130					04/27/23 19:30	1
4-Bromofluorobenzene (Surr)	105		70 - 130					04/27/23 19:30	1

Lab Sample ID: LCS 680-775776/3

Matrix: Water

Analysis Batch: 775776

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	55.3		ug/L		111	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	107		70 - 130				
1,2-Dichloroethane-d4 (Surr)	100		60 - 124				
Dibromofluoromethane (Surr)	107		70 - 130				
4-Bromofluorobenzene (Surr)	106		70 - 130				

Lab Sample ID: LCSD 680-775776/4

Matrix: Water

Analysis Batch: 775776

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	54.7		ug/L		109	70 - 130	1	30
Surrogate	%Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	109		70 - 130						
1,2-Dichloroethane-d4 (Surr)	113		60 - 124						
Dibromofluoromethane (Surr)	108		70 - 130						
4-Bromofluorobenzene (Surr)	105		70 - 130						

Lab Sample ID: MB 680-775781/7

Matrix: Water

Analysis Batch: 775781

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	0.15	ug/L			04/27/23 19:40	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130					04/27/23 19:40	1
1,2-Dichloroethane-d4 (Surr)	93		60 - 124					04/27/23 19:40	1
Dibromofluoromethane (Surr)	104		70 - 130					04/27/23 19:40	1
4-Bromofluorobenzene (Surr)	94		70 - 130					04/27/23 19:40	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-775781/3

Matrix: Water

Analysis Batch: 775781

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	48.5		ug/L		97	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
Toluene-d8 (Surr)	90		70 - 130								
1,2-Dichloroethane-d4 (Surr)	97		60 - 124								
Dibromofluoromethane (Surr)	97		70 - 130								
4-Bromofluorobenzene (Surr)	98		70 - 130								

Lab Sample ID: LCSD 680-775781/4

Matrix: Water

Analysis Batch: 775781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Data: 11/07/01											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene			50.0	47.5		ug/L		95	70 - 130	2	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
Toluene-d8 (Surr)	91		70 - 130								
1,2-Dichloroethane-d4 (Surr)	103		60 - 124								
Dibromofluoromethane (Surr)	96		70 - 130								
4-Bromofluorobenzene (Surr)	93		70 - 130								

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-774781/8-A

Matrix: Water

Analysis Batch: 776524

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 774781

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichlorobenzene	<10		10	0.53	ug/L		04/22/23 19:00	05/02/23 19:24	1
1,4-Dichlorobenzene	<10		10	0.54	ug/L		04/22/23 19:00	05/02/23 19:24	1
4-Nitrophenol	<25		25	1.9	ug/L		04/22/23 19:00	05/02/23 19:24	1
o,o',o"-Triethylphosphorothioate	<10		10	1.0	ug/L		04/22/23 19:00	05/02/23 19:24	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
2-Fluorobiphenyl	50		32 - 113				04/22/23 19:00	05/02/23 19:24	1
2-Fluorophenol	39		26 - 109				04/22/23 19:00	05/02/23 19:24	1
Nitrobenzene-d5	48		32 - 118				04/22/23 19:00	05/02/23 19:24	1
2,4,6-Tribromophenol	55		39 - 124				04/22/23 19:00	05/02/23 19:24	1
Phenol-d5	41		27 - 110				04/22/23 19:00	05/02/23 19:24	1
Terphenyl-d14	72		10 - 126				04/22/23 19:00	05/02/23 19:24	1

Lab Sample ID: LCS 680-774781/12-A

Matrix: Water

Analysis Batch: 776524

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774781

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o"-Triethylphosphorothioate	100	60.0		ug/L		60	23 - 130

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-774781/12-A

Matrix: Water

Analysis Batch: 776524

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774781

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	64		32 - 113
2-Fluorophenol	49		26 - 109
Nitrobenzene-d5	61		32 - 118
2,4,6-Tribromophenol	76		39 - 124
Phenol-d5	53		27 - 110
Terphenyl-d14	69		10 - 126

Lab Sample ID: LCS 680-774781/9-A

Matrix: Water

Analysis Batch: 776524

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774781

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	100	54.0		ug/L		54	31 - 130
1,4-Dichlorobenzene	100	54.0		ug/L		54	31 - 130
4-Nitrophenol	200	197		ug/L		99	44 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	62		32 - 113
2-Fluorophenol	50		26 - 109
Nitrobenzene-d5	61		32 - 118
2,4,6-Tribromophenol	74		39 - 124
Phenol-d5	53		27 - 110
Terphenyl-d14	70		10 - 126

Lab Sample ID: MB 680-774872/21-A

Matrix: Water

Analysis Batch: 777012

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 774872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.53	ug/L		04/23/23 21:50	05/04/23 18:39	1
1,4-Dichlorobenzene	<10		10	0.54	ug/L		04/23/23 21:50	05/04/23 18:39	1
4-Nitrophenol	<25		25	1.9	ug/L		04/23/23 21:50	05/04/23 18:39	1
Indeno[1,2,3-cd]pyrene	<10		10	1.0	ug/L		04/23/23 21:50	05/04/23 18:39	1
o,o',o"-Triethylphosphorothioate	<10		10	1.0	ug/L		04/23/23 21:50	05/04/23 18:39	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
2-Fluorobiphenyl	68		32 - 113	04/23/23 21:50	05/04/23 18:39	1			
2-Fluorophenol	56		26 - 109	04/23/23 21:50	05/04/23 18:39	1			
Nitrobenzene-d5	72		32 - 118	04/23/23 21:50	05/04/23 18:39	1			
2,4,6-Tribromophenol	76		39 - 124	04/23/23 21:50	05/04/23 18:39	1			
Phenol-d5	45		27 - 110	04/23/23 21:50	05/04/23 18:39	1			
Terphenyl-d14	81		10 - 126	04/23/23 21:50	05/04/23 18:39	1			

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-774872/22-A

Matrix: Water

Analysis Batch: 776064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	100	60.1		ug/L		60	31 - 130
1,4-Dichlorobenzene	100	57.6		ug/L		58	31 - 130
4-Nitrophenol	200	222		ug/L		111	44 - 130
Indeno[1,2,3-cd]pyrene	100	99.1		ug/L		99	31 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	65		32 - 113
2-Fluorophenol	53		26 - 109
Nitrobenzene-d5	59		32 - 118
2,4,6-Tribromophenol	87		39 - 124
Phenol-d5	56		27 - 110
Terphenyl-d14	77		10 - 126

Lab Sample ID: LCS 680-774872/25-A

Matrix: Water

Analysis Batch: 776064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o"-Triethylphosphorothioate	100	85.8		ug/L		86	23 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	66		32 - 113
2-Fluorophenol	54		26 - 109
Nitrobenzene-d5	66		32 - 118
2,4,6-Tribromophenol	81		39 - 124
Phenol-d5	59		27 - 110
Terphenyl-d14	74		10 - 126

Lab Sample ID: LCSD 680-774872/26-A

Matrix: Water

Analysis Batch: 776064

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 774872

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o,o',o"-Triethylphosphorothioate	100	97.3		ug/L		97	23 - 130	13	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	71		32 - 113
2-Fluorophenol	54		26 - 109
Nitrobenzene-d5	70		32 - 118
2,4,6-Tribromophenol	84		39 - 124
Phenol-d5	56		27 - 110
Terphenyl-d14	71		10 - 126

Eurofins Savannah

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-777034/7-A

Matrix: Water

Analysis Batch: 777586

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777034

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		05/04/23 21:20	05/08/23 18:21	1
o,o',o"-Triethylphosphorothioate	<10		10	1.0	ug/L		05/04/23 21:20	05/08/23 18:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		32 - 113	05/04/23 21:20	05/08/23 18:21	1
2-Fluorophenol	52		26 - 109	05/04/23 21:20	05/08/23 18:21	1
Nitrobenzene-d5	66		32 - 118	05/04/23 21:20	05/08/23 18:21	1
2,4,6-Tribromophenol	61		39 - 124	05/04/23 21:20	05/08/23 18:21	1
Phenol-d5	52		27 - 110	05/04/23 21:20	05/08/23 18:21	1
Terphenyl-d14	73		10 - 126	05/04/23 21:20	05/08/23 18:21	1

Lab Sample ID: LCS 680-777034/11-A

Matrix: Water

Analysis Batch: 777586

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o"-Triethylphosphorothioate	100	75.3		ug/L		75	23 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	68		32 - 113
2-Fluorophenol	55		26 - 109
Nitrobenzene-d5	69		32 - 118
2,4,6-Tribromophenol	69		39 - 124
Phenol-d5	61		27 - 110
Terphenyl-d14	69		10 - 126

Lab Sample ID: LCS 680-777034/8-A

Matrix: Water

Analysis Batch: 777586

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitrophenol	200	188		ug/L		94	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	71		32 - 113
2-Fluorophenol	54		26 - 109
Nitrobenzene-d5	69		32 - 118
2,4,6-Tribromophenol	72		39 - 124
Phenol-d5	57		27 - 110
Terphenyl-d14	75		10 - 126

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 680-774872/21-A

Matrix: Water

Analysis Batch: 780049

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 774872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.20		0.20	0.20	ug/L		04/23/23 21:50	05/23/23 18:59	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-777299/21-A

Matrix: Water

Analysis Batch: 777396

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1221	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1232	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1242	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1248	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1254	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1260	<0.50		0.50	0.060	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1268	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	42		14 - 130	05/05/23 21:00	05/07/23 17:19	1
Tetrachloro-m-xylene	51		40 - 130	05/05/23 21:00	05/07/23 17:19	1

Lab Sample ID: LCS 680-777299/22-A

Matrix: Water

Analysis Batch: 777396

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	3.00	2.59		ug/L		86	44 - 130
PCB-1016, Dissolved	3.00	2.59		ug/L		86	44 - 130
PCB-1260	3.00	3.31		ug/L		110	35 - 130
PCB-1260, Dissolved	3.00	3.31		ug/L		110	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	62		14 - 130
Tetrachloro-m-xylene	63		40 - 130

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-609783/1-A

Matrix: Water

Analysis Batch: 610700

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 609783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/24/23 14:32	05/01/23 14:10	1
Tetraethylthiopyrophosphate	<1.5		1.5	0.17	ug/L		04/24/23 14:32	05/01/23 14:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	74		60 - 154				04/24/23 14:32	05/01/23 14:10	1

Lab Sample ID: LCS 280-609783/2-A

Matrix: Water

Analysis Batch: 610700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 609783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	4.00	3.64		ug/L		91	55 - 107
Tetraethylthiopyrophosphate	4.00	3.54		ug/L		88	53 - 110
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Triphenylphosphate	85		60 - 154				

Lab Sample ID: LCSD 280-609783/25-A

Matrix: Water

Analysis Batch: 610700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 609783

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Parathion	4.00	3.93		ug/L		98	55 - 107	8	20
Tetraethylthiopyrophosphate	4.00	3.67		ug/L		92	53 - 110	4	27
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Triphenylphosphate	88		60 - 154						

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-774091/1-A

Matrix: Water

Analysis Batch: 774341

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 774091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/19/23 05:46	04/19/23 12:57	1
Manganese	<0.010		0.010	0.0013	mg/L		04/19/23 05:46	04/19/23 12:57	1

Lab Sample ID: LCS 680-774091/2-A

Matrix: Water

Analysis Batch: 774341

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 774091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.0500	0.0530		mg/L		106	80 - 120
Manganese	0.400	0.410		mg/L		103	80 - 120

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 680-774095/1-A
Matrix: Water
Analysis Batch: 774341

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 774095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/19/23 06:32	04/19/23 15:42	1
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/19/23 06:32	04/19/23 15:42	1

Lab Sample ID: LCS 680-774095/2-A
Matrix: Water
Analysis Batch: 774341

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 774095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt, Dissolved	0.0500	0.0540		mg/L		108	80 - 120
Manganese, Dissolved	0.400	0.418		mg/L		104	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-774246/1-A
Matrix: Water
Analysis Batch: 774463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 774246

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/19/23 14:44	04/20/23 09:53	1
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/19/23 14:44	04/20/23 09:53	1

Lab Sample ID: LCS 680-774246/2-A
Matrix: Water
Analysis Batch: 774463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 774246

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

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

GC/MS VOA

Analysis Batch: 775776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-3	Trip Blank 20230417	Total/NA	Water	8260D	
MB 680-775776/7	Method Blank	Total/NA	Water	8260D	
LCS 680-775776/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-775776/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 775781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-1	MW-14	Total/NA	Water	8260D	
680-233705-4	OW-08A	Total/NA	Water	8260D	
680-233705-6	OW-21A	Total/NA	Water	8260D	
MB 680-775781/7	Method Blank	Total/NA	Water	8260D	
LCS 680-775781/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-775781/4	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 774781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-1	MW-14	Total/NA	Water	3520C	
MB 680-774781/8-A	Method Blank	Total/NA	Water	3520C	
LCS 680-774781/12-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-774781/9-A	Lab Control Sample	Total/NA	Water	3520C	

Prep Batch: 774872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-4	OW-08A	Total/NA	Water	3520C	
680-233705-6	OW-21A	Total/NA	Water	3520C	
680-233705-6 - DL	OW-21A	Total/NA	Water	3520C	
MB 680-774872/21-A	Method Blank	Total/NA	Water	3520C	
LCS 680-774872/22-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-774872/25-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-774872/26-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 776064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-774872/22-A	Lab Control Sample	Total/NA	Water	8270D	774872
LCS 680-774872/25-A	Lab Control Sample	Total/NA	Water	8270D	774872
LCSD 680-774872/26-A	Lab Control Sample Dup	Total/NA	Water	8270D	774872

Analysis Batch: 776070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-4	OW-08A	Total/NA	Water	8270D	774872

Analysis Batch: 776524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-1	MW-14	Total/NA	Water	8270D	774781
MB 680-774781/8-A	Method Blank	Total/NA	Water	8270D	774781
LCS 680-774781/12-A	Lab Control Sample	Total/NA	Water	8270D	774781
LCS 680-774781/9-A	Lab Control Sample	Total/NA	Water	8270D	774781

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

GC/MS Semi VOA

Analysis Batch: 776788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-6	OW-21A	Total/NA	Water	8270D	774872

Analysis Batch: 777012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-6 - DL	OW-21A	Total/NA	Water	8270D	774872
MB 680-774872/21-A	Method Blank	Total/NA	Water	8270D	774872

Prep Batch: 777034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-2	MW-12A	Total/NA	Water	3520C	
MB 680-777034/7-A	Method Blank	Total/NA	Water	3520C	
LCS 680-777034/11-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-777034/8-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 777586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-2	MW-12A	Total/NA	Water	8270D	777034
MB 680-777034/7-A	Method Blank	Total/NA	Water	8270D	777034
LCS 680-777034/11-A	Lab Control Sample	Total/NA	Water	8270D	777034
LCS 680-777034/8-A	Lab Control Sample	Total/NA	Water	8270D	777034

Analysis Batch: 780049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-4	OW-08A	Total/NA	Water	8270D SIM	774872
MB 680-774872/21-A	Method Blank	Total/NA	Water	8270D SIM	774872

GC Semi VOA

Prep Batch: 609783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-1	MW-14	Total/NA	Water	3510C	
680-233705-4	OW-08A	Total/NA	Water	3510C	
680-233705-6	OW-21A	Total/NA	Water	3510C	
680-233705-6 - DL	OW-21A	Total/NA	Water	3510C	
MB 280-609783/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-609783/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-609783/25-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 610700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-1	MW-14	Total/NA	Water	8141B	609783
680-233705-4	OW-08A	Total/NA	Water	8141B	609783
680-233705-6	OW-21A	Total/NA	Water	8141B	609783
MB 280-609783/1-A	Method Blank	Total/NA	Water	8141B	609783
LCS 280-609783/2-A	Lab Control Sample	Total/NA	Water	8141B	609783
LCSD 280-609783/25-A	Lab Control Sample Dup	Total/NA	Water	8141B	609783

Analysis Batch: 611241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-6 - DL	OW-21A	Total/NA	Water	8141B	609783

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

GC Semi VOA

Prep Batch: 777299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-1	MW-14	Total/NA	Water	3520C	
680-233705-4	OW-08A	Total/NA	Water	3520C	
680-233705-5	OW-08AF	Dissolved	Water	3520C	
680-233705-6	OW-21A	Total/NA	Water	3520C	
680-233705-7	OW-21AF	Dissolved	Water	3520C	
MB 680-777299/21-A	Method Blank	Total/NA	Water	3520C	
LCS 680-777299/22-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 777396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-1	MW-14	Total/NA	Water	8081B/8082A	777299
680-233705-4	OW-08A	Total/NA	Water	8081B/8082A	777299
680-233705-5	OW-08AF	Dissolved	Water	8081B/8082A	777299
680-233705-6	OW-21A	Total/NA	Water	8081B/8082A	777299
680-233705-7	OW-21AF	Dissolved	Water	8081B/8082A	777299
MB 680-777299/21-A	Method Blank	Total/NA	Water	8081B/8082A	777299
LCS 680-777299/22-A	Lab Control Sample	Total/NA	Water	8081B/8082A	777299

Metals

Prep Batch: 774091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-1	MW-14	Total Recoverable	Water	3005A	
680-233705-4	OW-08A	Total Recoverable	Water	3005A	
680-233705-6	OW-21A	Total Recoverable	Water	3005A	
MB 680-774091/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-774091/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 774095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-5	OW-08AF	Dissolved	Water	3005A	
680-233705-7	OW-21AF	Dissolved	Water	3005A	
MB 680-774095/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-774095/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 774246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-1	MW-14	Total/NA	Water	7470A	
680-233705-4	OW-08A	Total/NA	Water	7470A	
680-233705-5	OW-08AF	Dissolved	Water	7470A	
680-233705-6	OW-21A	Total/NA	Water	7470A	
680-233705-7	OW-21AF	Dissolved	Water	7470A	
MB 680-774246/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-774246/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 774341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-1	MW-14	Total Recoverable	Water	6010D	774091
680-233705-4	OW-08A	Total Recoverable	Water	6010D	774091
680-233705-5	OW-08AF	Dissolved	Water	6010D	774095
680-233705-6	OW-21A	Total Recoverable	Water	6010D	774091

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Metals (Continued)

Analysis Batch: 774341 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-7	OW-21AF	Dissolved	Water	6010D	774095
MB 680-774091/1-A	Method Blank	Total Recoverable	Water	6010D	774091
MB 680-774095/1-A	Method Blank	Total Recoverable	Water	6010D	774095
LCS 680-774091/2-A	Lab Control Sample	Total Recoverable	Water	6010D	774091
LCS 680-774095/2-A	Lab Control Sample	Total Recoverable	Water	6010D	774095

Analysis Batch: 774463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233705-1	MW-14	Total/NA	Water	7470A	774246
680-233705-4	OW-08A	Total/NA	Water	7470A	774246
680-233705-5	OW-08AF	Dissolved	Water	7470A	774246
680-233705-6	OW-21A	Total/NA	Water	7470A	774246
680-233705-7	OW-21AF	Dissolved	Water	7470A	774246
MB 680-774246/1-A	Method Blank	Total/NA	Water	7470A	774246
LCS 680-774246/2-A	Lab Control Sample	Total/NA	Water	7470A	774246

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Client Sample ID: MW-14

Date Collected: 04/15/23 11:13

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233705-1

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	8260D		1	5 mL	5 mL	775781	04/27/23 21:26	P1C	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3520C			1052.5 mL	1 mL	774781	04/22/23 19:00	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	776524	05/03/23 00:10	T1C	EET SAV
	Instrument ID: CMSN									
Total/NA	Prep	3520C			1034.5 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777396	05/07/23 19:26	GEM	EET SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1062.7 mL	2 mL	609783	04/24/23 14:32	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610700	05/01/23 16:46	SP	EET DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			25 mL	25 mL	774091	04/19/23 05:46	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774341	04/19/23 13:33	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	774246	04/19/23 14:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			774463	04/20/23 10:12	JKL	EET SAV
	Instrument ID: QuickTrace2									

Client Sample ID: MW-12A

Date Collected: 04/15/23 12:24

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233705-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			970.6 mL	1 mL	777034	05/04/23 21:20	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	777586	05/08/23 23:32	T1C	EET SAV
	Instrument ID: CMSN									

Client Sample ID: Trip Blank 20230417

Date Collected: 04/17/23 08:00

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233705-3

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	8260D		1	5 mL	5 mL	775776	04/27/23 20:10	Y1S	EET SAV
	Instrument ID: CMSB									

Client Sample ID: OW-08A

Date Collected: 04/16/23 11:03

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233705-4

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	8260D		1	5 mL	5 mL	775781	04/27/23 21:47	P1C	EET SAV
	Instrument ID: CMSAD									
Total/NA	Prep	3520C			1021 mL	1 mL	774872	04/23/23 21:50	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	776070	04/30/23 04:03	T1C	EET SAV
	Instrument ID: CMSN									

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Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Client Sample ID: OW-08A

Date Collected: 04/16/23 11:03

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233705-4

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			1021 mL	1 mL	774872	04/23/23 21:50	IR	EET SAV
Total/NA	Analysis	8270D SIM		1	1 mL	1 mL	780049	05/23/23 19:22	DBM	EET SAV
		Instrument ID: CMSK								
Total/NA	Prep	3520C			1052.4 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777396	05/07/23 19:41	GEM	EET SAV
		Instrument ID: CSGK								
Total/NA	Prep	3510C			1029.5 mL	2 mL	609783	04/24/23 14:32	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610700	05/01/23 17:25	SP	EET DEN
		Instrument ID: SGC_D2								
Total Recoverable	Prep	3005A			25 mL	25 mL	774091	04/19/23 05:46	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774341	04/19/23 13:13	BJB	EET SAV
		Instrument ID: ICPH								
Total/NA	Prep	7470A			50 mL	50 mL	774246	04/19/23 14:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			774463	04/20/23 10:13	JKL	EET SAV
		Instrument ID: QuickTrace2								

Client Sample ID: OW-08AF

Date Collected: 04/16/23 11:03

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233705-5

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			1032.6 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Dissolved	Analysis	8081B/8082A		1	1 mL	1 mL	777396	05/07/23 19:57	GEM	EET SAV
		Instrument ID: CSGK								
Dissolved	Prep	3005A			25 mL	25 mL	774095	04/19/23 06:32	RR	EET SAV
Dissolved	Analysis	6010D		1			774341	04/19/23 16:25	BJB	EET SAV
		Instrument ID: ICPH								
Dissolved	Prep	7470A			50 mL	50 mL	774246	04/19/23 14:44	JKL	EET SAV
Dissolved	Analysis	7470A		1			774463	04/20/23 10:15	JKL	EET SAV
		Instrument ID: QuickTrace2								

Client Sample ID: OW-21A

Date Collected: 04/16/23 10:57

Date Received: 04/18/23 10:00

Lab Sample ID: 680-233705-6

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	8260D		10	5 mL	5 mL	775781	04/28/23 01:55	P1C	EET SAV
		Instrument ID: CMSAD								
Total/NA	Prep	3520C			1064.1 mL	1 mL	774872	04/23/23 21:50	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	776788	05/03/23 21:00	T1C	EET SAV
		Instrument ID: CMSN								
Total/NA	Prep	3520C	DL		1064.1 mL	1 mL	774872	04/23/23 21:50	IR	EET SAV
Total/NA	Analysis	8270D	DL	100	1 mL	1 mL	777012	05/04/23 19:01	T1C	EET SAV
		Instrument ID: CMSN								

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Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Client Sample ID: OW-21A

Lab Sample ID: 680-233705-6

Date Collected: 04/16/23 10:57

Matrix: Water

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1024 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777396	05/07/23 20:13	GEM	EET SAV
Instrument ID: CSGK										
Total/NA	Prep	3510C			1018 mL	2 mL	609783	04/24/23 14:32	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610700	05/01/23 18:04	SP	EET DEN
Instrument ID: SGC_D2										
Total/NA	Prep	3510C	DL		1018 mL	2 mL	609783	04/24/23 14:32	MAS	EET DEN
Total/NA	Analysis	8141B	DL	500	0.25 mL/100g	0.25 mL/100g	611241	05/04/23 14:55	SP	EET DEN
Instrument ID: SGC_D2										
Total Recoverable	Prep	3005A			25 mL	25 mL	774091	04/19/23 05:46	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774341	04/19/23 13:17	BJB	EET SAV
Instrument ID: ICPH										
Total/NA	Prep	7470A			50 mL	50 mL	774246	04/19/23 14:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			774463	04/20/23 10:16	JKL	EET SAV
Instrument ID: QuickTrace2										

Client Sample ID: OW-21AF

Lab Sample ID: 680-233705-7

Date Collected: 04/16/23 10:57

Matrix: Water

Date Received: 04/18/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1020.1 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Dissolved	Analysis	8081B/8082A		1	1 mL	1 mL	777396	05/07/23 20:29	GEM	EET SAV
Instrument ID: CSGK										
Dissolved	Prep	3005A			25 mL	25 mL	774095	04/19/23 06:32	RR	EET SAV
Dissolved	Analysis	6010D		1			774341	04/19/23 16:28	BJB	EET SAV
Instrument ID: ICPH										
Dissolved	Prep	7470A			50 mL	50 mL	774246	04/19/23 14:44	JKL	EET SAV
Dissolved	Analysis	7470A		1			774463	04/20/23 10:18	JKL	EET SAV
Instrument ID: QuickTrace2										

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-23

Laboratory: Eurofins 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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	06-12-23
Arizona	State	AZ0713	05-22-23
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	06-08-23
Connecticut	State	PH-0686	05-23-23
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	05-16-23
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-23
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	07-23-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Oregon	NELAP	4025-019	06-26-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	12037	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	07-23-23
Wisconsin	State	999615430	07-09-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Savannah

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233705-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	EET SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	EET DEN
6010D	Metals (ICP)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

5102 LaRoche Avenue
Savannah GA 31404
Phone 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

Client Information Client Contact: Ben Smith Company: GSI Environmental Inc Address: 2211 Norfolk Suite 1000 City: Houston State, Zip: TX, 77098-4044 Phone: 713-522-6300 (Tel) Email: WBSmith@gsi-net.com Project Name: Anniston RCRA March 2023 Site:		Sampler: JH, EGK, JSC Lab PM: Savoie Noel Phone: 713-522-6300 E-Mail: Noel.Savoie@et.eurofinsus.com Carrier Tracking No(s): State of Origin:		COC No: 680-145262-52668 4 Page: 1 of 1 Job #: 0495																																																																																																																	
Due Date Requested: TAT Requested (days): standard Compliance Project: ☐ Yes ☒ No PO #: 42500663 WO #: 55048760 Project #: 68018993 SSOW#:		Analysis Requested <table border="1"> <tr> <th>Field Filled Sample (Yes or No)</th> <th>8260D Chlorobenzene</th> <th>8270D - 1,2-DCB/1,4-DCB/4-NP/000 TEPP</th> <th>841B Parathion/Sulfotep</th> <th>6010D - 7470 - Cobalt, Mercury</th> <th>8081B, 8082A PCB</th> <th>841B - Parathion</th> <th>8081B, 8082A Dissolved PCBs Field Filled</th> <th>6010D 7470 - Cobalt, Manganese, Mercury</th> <th>6010C 7470/Dissolved Cobalt, Mercury</th> <th>8270D 1,2-DCB/1,4-DCB/4-NP/000-TEPP</th> <th>9270LL 1,2-DCB/1,4-DCB/4-NP/000-TEPP</th> <th>Total Number of containers</th> <th>Special Instructions/Note</th> </tr> <tr> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>10</td> <td></td> </tr> <tr> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>6</td> <td></td> </tr> <tr> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>2</td> <td>Note for OW-03AF 0270</td> </tr> <tr> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>10</td> <td>10 for 1 2-DCB/1,4-DCB/4-NP/000-TEPP</td> </tr> <tr> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>3</td> <td>4-KIP 25 ug/L; 000</td> </tr> <tr> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>10</td> <td>0370</td> </tr> <tr> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>3</td> <td></td> </tr> </table>				Field Filled Sample (Yes or No)	8260D Chlorobenzene	8270D - 1,2-DCB/1,4-DCB/4-NP/000 TEPP	841B Parathion/Sulfotep	6010D - 7470 - Cobalt, Mercury	8081B, 8082A PCB	841B - Parathion	8081B, 8082A Dissolved PCBs Field Filled	6010D 7470 - Cobalt, Manganese, Mercury	6010C 7470/Dissolved Cobalt, Mercury	8270D 1,2-DCB/1,4-DCB/4-NP/000-TEPP	9270LL 1,2-DCB/1,4-DCB/4-NP/000-TEPP	Total Number of containers	Special Instructions/Note	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	10		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	6		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	2	Note for OW-03AF 0270	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	10	10 for 1 2-DCB/1,4-DCB/4-NP/000-TEPP	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	3	4-KIP 25 ug/L; 000	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	10	0370	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	3	
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Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological Deliverable Requested I, II, III, IV Other (specify)		Sample Disposal (A fee may be assessed) ☐ Return To Client ☒ Disposal By Lab Special Instructions/QC Requirements																																																																																																																			
Empty Kit Relinquished by Relinquished by: JESSICA ALANIS Relinquished by: Relinquished by:		Method of Shipment: Date: 4/17/23 900 Date/Time: 4/17/23 900 Date/Time:																																																																																																																			
Custody Seals Intact: A Yes ☒ No ☐ Custody Seal No:		Cooler Temperature(s) °C and Other Remarks: 2.7/3.3 13/19 2.1/2.7																																																																																																																			

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-233705-1

Login Number: 233705

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	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 $<6\text{mm}$ (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: 680-233705-1

Login Number: 233705

List Number: 2

Creator: Naylis, Patrick J

List Source: Eurofins Denver

List Creation: 04/21/23 11:24 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (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 Name: CERCLA Groundwater Monitoring
 Reviewer: Ellen Kainer

Project Manager: Noel Savoie
 Project Number: 680-233802-1
 Validation Date: 09/25/2023

Laboratory: Eurofins Savannah, Denver, and Lancaster Laboratories SDG #: 680-233802-1
 Analytical Method (type and no.): VOCs (8260B), SVOCS (8270D), PCBs (8081B/8082A), Pesticides (8141B), PCB Homologs (680)
 Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐
 Sample Names: OWR-11, OWR-11F, Equipment Blank, Purge Water, Trip Blank20230417

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?	☒	☐	☐	<u>Equipment Blank, Trip Blank20230417</u>
g) Field parameters collected (note types)?	☒	☐	☐	<u>Temp, pH, turbidity, sp. cond., DO, ORP</u>
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 - 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)?	☐	☒	☐	_____
b) Were field dup. precision criteria met (note RPD)?	☐	☐	☒	_____
c) Were lab duplicates analyzed (note original and duplicate samples)?	☒	☐	☐	Multiple LCS/LCSD pairs _____
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	All RPDs < 11% _____

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?	☐	☐	☒	_____

Surrogate Spikes	YES	NO	NA	COMMENTS
Were surrogate recoveries within control limits?	☐	☒	☐	Decachlorobiphenyl (DCB) recovered low (below the lab standard of 14%) for sample OWR-11F for Aroclor analysis by method 8081B/8082A, but greater than the "expanded lower acceptance limit" of 10% specified in NFG, 2020. Associated sample results are qualified UJ. Decachlorobiphenyl (DCB) recovered low (below the lab standard of 14% and below the expanded lower acceptance limit of 10%) for Purgewater (8%) for Aroclor analysis by 8081B/8082A. A strict interpretation of the NFG would reject these non-detect results of PCB Aroclors; however, the results were qualified as estimated (UJ) based on professional judgement since PCB Aroclors have not been detected in the purgewater sample in the previous six years.
a) Were surrogate recoveries not calculated due to dilutions?	☐	☒	☐	_____

Comments/Notes:

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
OWR-11F	PCB-1016	<0.5 ug/L	UJ	Low DCB surrogate recovery
OWR-11F	PCB-1221	<0.5 ug/L	UJ	Low DCB surrogate recovery
OWR-11F	PCB-1232	<0.5 ug/L	UJ	Low DCB surrogate recovery
OWR-11F	PCB-1242	<0.5 ug/L	UJ	Low DCB surrogate recovery
OWR-11F	PCB-1248	<0.5 ug/L	UJ	Low DCB surrogate recovery
OWR-11F	PCB-1254	<0.5 ug/L	UJ	Low DCB surrogate recovery
OWR-11F	PCB-1260	<0.5 ug/L	UJ	Low DCB surrogate recovery
OWR-11F	PCB-1268	<0.5 ug/L	UJ	Low DCB surrogate recovery
Purgewater	PCB-1016	<0.5 ug/L	UJ	Low DCB surrogate recovery
Purgewater	PCB-1221	<0.5 ug/L	UJ	Low DCB surrogate recovery
Purgewater	PCB-1232	<0.5 ug/L	UJ	Low DCB surrogate recovery
Purgewater	PCB-1242	<0.5 ug/L	UJ	Low DCB surrogate recovery
Purgewater	PCB-1248	<0.5 ug/L	UJ	Low DCB surrogate recovery
Purgewater	PCB-1254	<0.5 ug/L	UJ	Low DCB surrogate recovery
Purgewater	PCB-1260	<0.5 ug/L	UJ	Low DCB surrogate recovery
Purgewater	PCB-1268	<0.5 ug/L	UJ	Low DCB surrogate recovery

Signature: 

Date: 25 September 2023

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc.

Project Manager: Noel Savoie

Project Name: CERCLA Groundwater Monitoring

Project Number: 680-233802-1

Reviewer: Ellen Kainer

Validation Date: 09/25/2023

Laboratory: Eurofins Savannah, Denver, and Lancaster Laboratories SDG #: 680-233802-1

Analytical Method (type and no.): Metals (6010D), Mercury (7470A)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____

Sample Names: OWR-11, OWR-11F, Equipment Blank

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?	☒	☐	☐	<u>Equipment Blank</u> _____
g) Field parameters collected (note types)?	☒	☐	☐	<u>Temp, pH, turbidity, sp. cond., DO, ORP</u> _____
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)?	☐	☒	☐	
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?	☐	☐	☒	
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?	☐	☐	☒	

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: 

Date: 25 September 2023

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Generated 5/31/2023 12:05:35 PM

JOB DESCRIPTION

Anniston CERCLA April 2023

JOB NUMBER

680-233802-1

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Noel Savoie, Project Manager I
Noel.Savoie@et.eurofinsus.com
(850)254-0107

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 2023

Job ID: 680-233802-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-233802-1	OWR-11	Water	04/17/23 11:16	04/19/23 10:30
680-233802-2	OWR-11F	Water	04/17/23 11:16	04/19/23 10:30
680-233802-3	Purgewater	Water	04/17/23 15:50	04/19/23 10:30
680-233802-4	Equipment Blank	Water	04/17/23 16:05	04/19/23 10:30
680-233802-5	Trip blank20230417	Water	04/17/23 16:15	04/19/23 10:30

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Job ID: 680-233802-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-233802-1

Receipt

The samples were received on 4/19/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.0°C and 2.3°C

GC/MS VOA

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batches 680-775776 and 680-775852.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

Method 680: IS was double spiked inadvertently. (680-233550-A-1-B MS)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8141B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-609783.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides/PCBs

Method 8081B_8082A: Surrogate recovery for the following sample was outside control limits: Purgewater (680-233802-3). Re-extraction and/or re-analysis was performed and surrogate recovery confirmed.

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: OWR-11F (680-233802-2). 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.

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Client Sample ID: OWR-11

Lab Sample ID: 680-233802-1

Date Collected: 04/17/23 11:16

Matrix: Water

Date Received: 04/19/23 10:30

Method: SW846 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		05/05/23 21:00	05/07/23 20:45	1
PCB-1221	150		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 20:45	1
PCB-1232	130		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 20:45	1
PCB-1242	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 20:45	1
PCB-1248	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 20:45	1
PCB-1254	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 20:45	1
PCB-1260	<0.50		0.50	0.059	ug/L		05/05/23 21:00	05/07/23 20:45	1
PCB-1268	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	32	p	14 - 130	05/05/23 21:00	05/07/23 20:45	1
Tetrachloro-m-xylene	54		40 - 130	05/05/23 21:00	05/07/23 20:45	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.14		0.010	0.0014	mg/L		04/20/23 07:08	04/20/23 14:21	1
Manganese	2.7		0.010	0.0013	mg/L		04/20/23 07:08	04/20/23 14:21	1

Client Sample ID: OWR-11F

Lab Sample ID: 680-233802-2

Date Collected: 04/17/23 11:16

Matrix: Water

Date Received: 04/19/23 10:30

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.091	ug/L		05/05/23 21:00	05/07/23 21:00	1
PCB-1221, Dissolved	<0.50		0.50	0.091	ug/L		05/05/23 21:00	05/07/23 21:00	1
PCB-1232, Dissolved	<0.50		0.50	0.091	ug/L		05/05/23 21:00	05/07/23 21:00	1
PCB-1242, Dissolved	<0.50		0.50	0.091	ug/L		05/05/23 21:00	05/07/23 21:00	1
PCB-1248, Dissolved	<0.50		0.50	0.091	ug/L		05/05/23 21:00	05/07/23 21:00	1
PCB-1254, Dissolved	<0.50		0.50	0.091	ug/L		05/05/23 21:00	05/07/23 21:00	1
PCB-1260, Dissolved	<0.50		0.50	0.061	ug/L		05/05/23 21:00	05/07/23 21:00	1
PCB-1268, Dissolved	<0.50		0.50	0.091	ug/L		05/05/23 21:00	05/07/23 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	12	S1-	14 - 130	05/05/23 21:00	05/07/23 21:00	1
Tetrachloro-m-xylene	45	p	40 - 130	05/05/23 21:00	05/07/23 21:00	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.14		0.010	0.0014	mg/L		04/20/23 07:08	04/20/23 14:15	1
Manganese, Dissolved	2.8		0.010	0.0013	mg/L		04/20/23 07:08	04/20/23 14:15	1

Client Sample ID: Purgewater

Lab Sample ID: 680-233802-3

Date Collected: 04/17/23 15:50

Matrix: Water

Date Received: 04/19/23 10:30

Method: SW846 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		05/25/23 18:20	05/27/23 20:43	1
PCB-1221	<0.50		0.50	0.091	ug/L		05/25/23 18:20	05/27/23 20:43	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Client Sample ID: Purgewater

Lab Sample ID: 680-233802-3

Date Collected: 04/17/23 15:50

Matrix: Water

Date Received: 04/19/23 10:30

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.50		0.50	0.091	ug/L		05/25/23 18:20	05/27/23 20:43	1
PCB-1242	<0.50		0.50	0.091	ug/L		05/25/23 18:20	05/27/23 20:43	1
PCB-1248	<0.50		0.50	0.091	ug/L		05/25/23 18:20	05/27/23 20:43	1
PCB-1254	<0.50		0.50	0.091	ug/L		05/25/23 18:20	05/27/23 20:43	1
PCB-1260	<0.50		0.50	0.061	ug/L		05/25/23 18:20	05/27/23 20:43	1
PCB-1268	<0.50		0.50	0.091	ug/L		05/25/23 18:20	05/27/23 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	8	S1-	14 - 130	05/25/23 18:20	05/27/23 20:43	1
Tetrachloro-m-xylene	8	S1-	40 - 130	05/25/23 18:20	05/27/23 20:43	1

Client Sample ID: Equipment Blank

Lab Sample ID: 680-233802-4

Date Collected: 04/17/23 16:05

Matrix: Water

Date Received: 04/19/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.0		1.0	0.20	ug/L			04/27/23 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	110		70 - 130		04/27/23 20:30	1
1,2-Dichloroethane-d4 (Surr)	99		60 - 124		04/27/23 20:30	1
Dibromofluoromethane (Surr)	105		70 - 130		04/27/23 20:30	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/27/23 20:30	1

Method: EPA 680 - Polychlorinated Biphenyls by GCMS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/16/23 01:17	1
Total Heptachlorobiphenyls	<0.30		0.30	0.040	ug/L		05/11/23 09:16	05/16/23 01:17	1
Total Hexachlorobiphenyls	<0.20		0.20	0.030	ug/L		05/11/23 09:16	05/16/23 01:17	1
Total Monochlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/16/23 01:17	1
Total Nonachlorobiphenyls	<0.50		0.50	0.20	ug/L		05/11/23 09:16	05/16/23 01:17	1
Total Octachlorobiphenyls	<0.30		0.30	0.050	ug/L		05/11/23 09:16	05/16/23 01:17	1
Total Pentachlorobiphenyls	<0.20		0.20	0.030	ug/L		05/11/23 09:16	05/16/23 01:17	1
Total Tetrachlorobiphenyls	<0.20		0.20	0.030	ug/L		05/11/23 09:16	05/16/23 01:17	1
Total Trichlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/16/23 01:17	1
DCB Decachlorobiphenyl	<0.50		0.50	0.20	ug/L		05/11/23 09:16	05/16/23 01:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-52L	56		20 - 120	05/11/23 09:16	05/16/23 01:17	1
PCB-138L	60		20 - 127	05/11/23 09:16	05/16/23 01:17	1

Method: SW846 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		04/24/23 19:29	04/26/23 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		32 - 113	04/24/23 19:29	04/26/23 18:23	1
2-Fluorophenol	63		26 - 109	04/24/23 19:29	04/26/23 18:23	1
Nitrobenzene-d5	75		32 - 118	04/24/23 19:29	04/26/23 18:23	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Client Sample ID: Equipment Blank

Lab Sample ID: 680-233802-4

Date Collected: 04/17/23 16:05

Matrix: Water

Date Received: 04/19/23 10:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5	64		27 - 110	04/24/23 19:29	04/26/23 18:23	1
Terphenyl-d14	65		10 - 126	04/24/23 19:29	04/26/23 18:23	1
2,4,6-Tribromophenol	77		39 - 124	04/24/23 19:29	04/26/23 18:23	1

Method: SW846 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		05/05/23 21:00	05/07/23 21:32	1
PCB-1221	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 21:32	1
PCB-1232	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 21:32	1
PCB-1242	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 21:32	1
PCB-1248	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 21:32	1
PCB-1254	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 21:32	1
PCB-1260	<0.50		0.50	0.059	ug/L		05/05/23 21:00	05/07/23 21:32	1
PCB-1268	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	18		14 - 130	05/05/23 21:00	05/07/23 21:32	1
Tetrachloro-m-xylene	64		40 - 130	05/05/23 21:00	05/07/23 21:32	1

Method: SW846 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		04/24/23 14:32	05/01/23 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	79		60 - 154	04/24/23 14:32	05/01/23 18:43	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.00030	mg/L		04/20/23 07:08	04/20/23 14:18	1
Cobalt	<0.010		0.010	0.0014	mg/L		04/20/23 07:08	04/20/23 14:18	1
Manganese	<0.010		0.010	0.0013	mg/L		04/20/23 07:08	04/20/23 14:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/20/23 17:11	04/21/23 14:26	1

Client Sample ID: Trip blank20230417

Lab Sample ID: 680-233802-5

Date Collected: 04/17/23 16:15

Matrix: Water

Date Received: 04/19/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.0		1.0	0.20	ug/L			04/27/23 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		70 - 130		04/27/23 20:50	1
Toluene-d8 (Surr)	97		70 - 130		04/28/23 14:42	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 124		04/27/23 20:50	1
1,2-Dichloroethane-d4 (Surr)	81		60 - 124		04/28/23 14:42	1
Dibromofluoromethane (Surr)	107		70 - 130		04/27/23 20:50	1
Dibromofluoromethane (Surr)	88		70 - 130		04/28/23 14:42	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Client Sample ID: Trip blank20230417

Lab Sample ID: 680-233802-5

Date Collected: 04/17/23 16:15

Matrix: Water

Date Received: 04/19/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130		04/27/23 20:50	1
4-Bromofluorobenzene (Surr)	104		70 - 130		04/28/23 14:42	1

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-775776/7

Matrix: Water

Analysis Batch: 775776

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	0.20	ug/L			04/27/23 19:30	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		70 - 130					04/27/23 19:30	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 124					04/27/23 19:30	1
Dibromofluoromethane (Surr)	104		70 - 130					04/27/23 19:30	1
4-Bromofluorobenzene (Surr)	105		70 - 130					04/27/23 19:30	1

Lab Sample ID: LCS 680-775776/3

Matrix: Water

Analysis Batch: 775776

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	52.0		ug/L		104	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	107		70 - 130				
1,2-Dichloroethane-d4 (Surr)	100		60 - 124				
Dibromofluoromethane (Surr)	107		70 - 130				
4-Bromofluorobenzene (Surr)	106		70 - 130				

Lab Sample ID: LCSD 680-775776/4

Matrix: Water

Analysis Batch: 775776

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	53.0		ug/L		106	70 - 130	2	30
Surrogate	%Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	109		70 - 130						
1,2-Dichloroethane-d4 (Surr)	113		60 - 124						
Dibromofluoromethane (Surr)	108		70 - 130						
4-Bromofluorobenzene (Surr)	105		70 - 130						

Lab Sample ID: MB 680-775852/9

Matrix: Water

Analysis Batch: 775852

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	0.20	ug/L			04/28/23 13:31	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130					04/28/23 13:31	1
1,2-Dichloroethane-d4 (Surr)	83		60 - 124					04/28/23 13:31	1
Dibromofluoromethane (Surr)	92		70 - 130					04/28/23 13:31	1
4-Bromofluorobenzene (Surr)	106		70 - 130					04/28/23 13:31	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-775852/5

Matrix: Water

Analysis Batch: 775852

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	48.6		ug/L		97	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	99		70 - 130				
1,2-Dichloroethane-d4 (Surr)	89		60 - 124				
Dibromofluoromethane (Surr)	95		70 - 130				
4-Bromofluorobenzene (Surr)	107		70 - 130				

Lab Sample ID: LCSD 680-775852/6

Matrix: Water

Analysis Batch: 775852

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	49.2		ug/L		98	70 - 130	1	30
Surrogate	%Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	100		70 - 130						
1,2-Dichloroethane-d4 (Surr)	89		60 - 124						
Dibromofluoromethane (Surr)	95		70 - 130						
4-Bromofluorobenzene (Surr)	107		70 - 130						

Method: 680 - Polychlorinated Biphenyls by GCMS

Lab Sample ID: MB 410-374605/1-A

Matrix: Water

Analysis Batch: 375831

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 374605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/15/23 12:46	1
Total Heptachlorobiphenyls	<0.30		0.30	0.040	ug/L		05/11/23 09:16	05/15/23 12:46	1
Total Hexachlorobiphenyls	<0.20		0.20	0.030	ug/L		05/11/23 09:16	05/15/23 12:46	1
Total Monochlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/15/23 12:46	1
Total Nonachlorobiphenyls	<0.50		0.50	0.20	ug/L		05/11/23 09:16	05/15/23 12:46	1
Total Octachlorobiphenyls	<0.30		0.30	0.050	ug/L		05/11/23 09:16	05/15/23 12:46	1
Total Pentachlorobiphenyls	<0.20		0.20	0.030	ug/L		05/11/23 09:16	05/15/23 12:46	1
Total Tetrachlorobiphenyls	<0.20		0.20	0.030	ug/L		05/11/23 09:16	05/15/23 12:46	1
Total Trichlorobiphenyls	<0.10		0.10	0.020	ug/L		05/11/23 09:16	05/15/23 12:46	1
DCB Decachlorobiphenyl	<0.50		0.50	0.20	ug/L		05/11/23 09:16	05/15/23 12:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
PCB-52L	79		20 - 120						
PCB-138L	74		20 - 127						

Eurofins Savannah

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Method: 680 - Polychlorinated Biphenyls by GCMS (Continued)

Lab Sample ID: LCS 410-374605/2-A

Matrix: Water

Analysis Batch: 376253

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 374605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dichlorobiphenyls	1.25	0.668		ug/L		53	50 - 120
Total Heptachlorobiphenyls	3.76	2.89		ug/L		77	53 - 120
Total Hexachlorobiphenyls	2.51	2.02		ug/L		81	52 - 120
Total Monochlorobiphenyls	1.25	0.608		ug/L		49	46 - 120
Total Octachlorobiphenyls	3.75	3.01		ug/L		80	53 - 120
Total Pentachlorobiphenyls	2.50	1.87		ug/L		75	52 - 120
Total Tetrachlorobiphenyls	2.50	1.58		ug/L		63	54 - 120
Total Trichlorobiphenyls	1.26	0.794		ug/L		63	48 - 120
DCB Decachlorobiphenyl	6.28	6.18		ug/L		98	41 - 173

Surrogate	LCS %Recovery	LCS Qualifier	Limits
PCB-52L	68		20 - 120
PCB-138L	70		20 - 127

Lab Sample ID: LCSD 410-374605/3-A

Matrix: Water

Analysis Batch: 375831

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 374605

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dichlorobiphenyls	1.25	0.672		ug/L					
Total Heptachlorobiphenyls	3.76	2.80		ug/L					
Total Hexachlorobiphenyls	2.51	1.96		ug/L					
Total Monochlorobiphenyls	1.25	0.612		ug/L					
Total Octachlorobiphenyls	3.75	2.76		ug/L					
Total Pentachlorobiphenyls	2.50	1.78		ug/L					
Total Tetrachlorobiphenyls	2.50	1.56		ug/L					
Total Trichlorobiphenyls	1.26	0.767		ug/L					
DCB Decachlorobiphenyl	6.28	5.74		ug/L					

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
PCB-52L			
PCB-138L			

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-775095/3-A

Matrix: Water

Analysis Batch: 775528

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 775095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		04/24/23 19:29	04/26/23 16:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		32 - 113	04/24/23 19:29	04/26/23 16:58	1
2-Fluorophenol	59		26 - 109	04/24/23 19:29	04/26/23 16:58	1
Nitrobenzene-d5	72		32 - 118	04/24/23 19:29	04/26/23 16:58	1
Phenol-d5	63		27 - 110	04/24/23 19:29	04/26/23 16:58	1
Terphenyl-d14	76		10 - 126	04/24/23 19:29	04/26/23 16:58	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-775095/3-A

Matrix: Water

Analysis Batch: 775528

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 775095

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		39 - 124	04/24/23 19:29	04/26/23 16:58	1

Lab Sample ID: LCS 680-775095/4-A

Matrix: Water

Analysis Batch: 775528

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 775095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitrophenol	200	186		ug/L		93	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	61		32 - 113
2-Fluorophenol	60		26 - 109
Nitrobenzene-d5	70		32 - 118
Phenol-d5	65		27 - 110
Terphenyl-d14	70		10 - 126
2,4,6-Tribromophenol	79		39 - 124

Lab Sample ID: LCSD 680-775095/5-A

Matrix: Water

Analysis Batch: 775528

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 775095

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol	200	199		ug/L		99	44 - 130	7	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	64		32 - 113
2-Fluorophenol	60		26 - 109
Nitrobenzene-d5	71		32 - 118
Phenol-d5	66		27 - 110
Terphenyl-d14	72		10 - 126
2,4,6-Tribromophenol	83		39 - 124

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-777299/21-A

Matrix: Water

Analysis Batch: 777396

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1221	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1232	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1242	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1

Eurofins Savannah

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 680-777299/21-A

Matrix: Water

Analysis Batch: 777396

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1254	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1260	<0.50		0.50	0.060	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1268	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	42		14 - 130	05/05/23 21:00	05/07/23 17:19	1
Tetrachloro-m-xylene	51		40 - 130	05/05/23 21:00	05/07/23 17:19	1

Lab Sample ID: LCS 680-777299/22-A

Matrix: Water

Analysis Batch: 777396

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	3.00	2.59		ug/L		86	44 - 130
PCB-1016, Dissolved	3.00	2.59		ug/L		86	44 - 130
PCB-1260	3.00	3.31		ug/L		110	35 - 130
PCB-1260, Dissolved	3.00	3.31		ug/L		110	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	62		14 - 130
Tetrachloro-m-xylene	63		40 - 130

Lab Sample ID: MB 680-780475/2-A

Matrix: Water

Analysis Batch: 780802

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 780475

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/25/23 18:20	05/27/23 17:33	1
PCB-1221	<0.50		0.50	0.090	ug/L		05/25/23 18:20	05/27/23 17:33	1
PCB-1232	<0.50		0.50	0.090	ug/L		05/25/23 18:20	05/27/23 17:33	1
PCB-1242	<0.50		0.50	0.090	ug/L		05/25/23 18:20	05/27/23 17:33	1
PCB-1248	<0.50		0.50	0.090	ug/L		05/25/23 18:20	05/27/23 17:33	1
PCB-1254	<0.50		0.50	0.090	ug/L		05/25/23 18:20	05/27/23 17:33	1
PCB-1260	<0.50		0.50	0.060	ug/L		05/25/23 18:20	05/27/23 17:33	1
PCB-1268	<0.50		0.50	0.090	ug/L		05/25/23 18:20	05/27/23 17:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		14 - 130	05/25/23 18:20	05/27/23 17:33	1
Tetrachloro-m-xylene	50		40 - 130	05/25/23 18:20	05/27/23 17:33	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-780475/3-A

Matrix: Water

Analysis Batch: 780802

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 780475

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits		
			Added	Result	Qualifier							
PCB-1016			3.00	2.01		ug/L		67	44 - 130			
PCB-1260			3.00	2.85		ug/L		95	35 - 130			
Surrogate	LCS		Limits									
	%Recovery	LCS										
		Qualifier										
DCB Decachlorobiphenyl	61		14 - 130									
Tetrachloro-m-xylene	55		40 - 130									

Lab Sample ID: LCSD 680-780475/4-A

Matrix: Water

Analysis Batch: 780802

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 780475

Analyte							Top Endpoints				
Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier			Limits	Limits	Limit	
PCB-1016			3.00	2.25		ug/L		75	44 - 130	11	30
PCB-1260			3.00	2.61		ug/L		87	35 - 130	9	40
Surrogate	LCSD	LCSD	Limits								
	%Recovery	Qualifier									
DCB Decachlorobiphenyl	26		14 - 130								
Tetrachloro-m-xylene	53		40 - 130								

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-609783/1-A

Matrix: Water

Analysis Batch: 610700

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 609783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/24/23 14:32	05/01/23 14:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	74		60 - 154				04/24/23 14:32	05/01/23 14:10	1

Lab Sample ID: LCS 280-609783/2-A

Matrix: Water

Analysis Batch: 610700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 609783

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion			4.00	3.64		ug/L		91	55 - 107
Surrogate			LCS %Recovery	LCS Qualifier	Limits				
Triphenylphosphate			85		60 - 154				

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: LCSD 280-609783/25-A

Matrix: Water

Analysis Batch: 610700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 609783

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Parathion	4.00	3.93		ug/L		98	55 - 107	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Triphenylphosphate	88		60 - 154						

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-774337/1-A

Matrix: Water

Analysis Batch: 774563

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 774337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.00030	mg/L		04/20/23 07:08	04/20/23 13:55	1
Cobalt	<0.010		0.010	0.0014	mg/L		04/20/23 07:08	04/20/23 13:55	1
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/20/23 07:08	04/20/23 13:55	1
Manganese	<0.010		0.010	0.0013	mg/L		04/20/23 07:08	04/20/23 13:55	1
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/20/23 07:08	04/20/23 13:55	1

Lab Sample ID: LCS 680-774337/2-A

Matrix: Water

Analysis Batch: 774563

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 774337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Beryllium	0.0500	0.0520		mg/L		104	80 - 120		
Cobalt	0.0500	0.0519		mg/L		104	80 - 120		
Cobalt, Dissolved	0.0500	0.0519		mg/L		104	80 - 120		
Manganese	0.400	0.399		mg/L		100	80 - 120		
Manganese, Dissolved	0.400	0.399		mg/L		100	80 - 120		

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-774521/1-A

Matrix: Water

Analysis Batch: 774740

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 774521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/20/23 17:02	04/21/23 13:47	1

Lab Sample ID: LCS 680-774521/2-A

Matrix: Water

Analysis Batch: 774740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.00250	0.00244		mg/L		98	80 - 120		

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

GC/MS VOA

Analysis Batch: 775776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-4	Equipment Blank	Total/NA	Water	8260D	
680-233802-5	Trip blank20230417	Total/NA	Water	8260D	
MB 680-775776/7	Method Blank	Total/NA	Water	8260D	
LCS 680-775776/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-775776/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 775852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-5	Trip blank20230417	Total/NA	Water	8260D	
MB 680-775852/9	Method Blank	Total/NA	Water	8260D	
LCS 680-775852/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-775852/6	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 374605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-4	Equipment Blank	Total/NA	Water	680	
MB 410-374605/1-A	Method Blank	Total/NA	Water	680	
LCS 410-374605/2-A	Lab Control Sample	Total/NA	Water	680	
LCSD 410-374605/3-A	Lab Control Sample Dup	Total/NA	Water	680	

Analysis Batch: 375831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-374605/1-A	Method Blank	Total/NA	Water	680	374605
LCSD 410-374605/3-A	Lab Control Sample Dup	Total/NA	Water	680	374605

Analysis Batch: 375832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-4	Equipment Blank	Total/NA	Water	680	374605

Analysis Batch: 376253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-374605/2-A	Lab Control Sample	Total/NA	Water	680	374605

Prep Batch: 775095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-4	Equipment Blank	Total/NA	Water	3520C	
MB 680-775095/3-A	Method Blank	Total/NA	Water	3520C	
LCS 680-775095/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-775095/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 775528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-4	Equipment Blank	Total/NA	Water	8270D	775095
MB 680-775095/3-A	Method Blank	Total/NA	Water	8270D	775095
LCS 680-775095/4-A	Lab Control Sample	Total/NA	Water	8270D	775095
LCSD 680-775095/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	775095

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

GC Semi VOA

Prep Batch: 609783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-4	Equipment Blank	Total/NA	Water	3510C	
MB 280-609783/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-609783/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-609783/25-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 610700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-4	Equipment Blank	Total/NA	Water	8141B	609783
MB 280-609783/1-A	Method Blank	Total/NA	Water	8141B	609783
LCS 280-609783/2-A	Lab Control Sample	Total/NA	Water	8141B	609783
LCSD 280-609783/25-A	Lab Control Sample Dup	Total/NA	Water	8141B	609783

Prep Batch: 777299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-1	OWR-11	Total/NA	Water	3520C	
680-233802-2	OWR-11F	Dissolved	Water	3520C	
680-233802-4	Equipment Blank	Total/NA	Water	3520C	
MB 680-777299/21-A	Method Blank	Total/NA	Water	3520C	
LCS 680-777299/22-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 777396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-1	OWR-11	Total/NA	Water	8081B/8082A	777299
680-233802-2	OWR-11F	Dissolved	Water	8081B/8082A	777299
680-233802-4	Equipment Blank	Total/NA	Water	8081B/8082A	777299
MB 680-777299/21-A	Method Blank	Total/NA	Water	8081B/8082A	777299
LCS 680-777299/22-A	Lab Control Sample	Total/NA	Water	8081B/8082A	777299

Prep Batch: 780475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-3	Purgewater	Total/NA	Water	3520C	
MB 680-780475/2-A	Method Blank	Total/NA	Water	3520C	
LCS 680-780475/3-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-780475/4-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 780802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-3	Purgewater	Total/NA	Water	8081B/8082A	780475
MB 680-780475/2-A	Method Blank	Total/NA	Water	8081B/8082A	780475
LCS 680-780475/3-A	Lab Control Sample	Total/NA	Water	8081B/8082A	780475
LCSD 680-780475/4-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	780475

Metals

Prep Batch: 774337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-1	OWR-11	Total Recoverable	Water	3005A	
680-233802-2	OWR-11F	Dissolved	Water	3005A	
680-233802-4	Equipment Blank	Total Recoverable	Water	3005A	
MB 680-774337/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-774337/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Eurofins Savannah

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Metals

Prep Batch: 774521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-4	Equipment Blank	Total/NA	Water	7470A	
MB 680-774521/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-774521/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 774563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-1	OWR-11	Total Recoverable	Water	6010D	774337
680-233802-2	OWR-11F	Dissolved	Water	6010D	774337
680-233802-4	Equipment Blank	Total Recoverable	Water	6010D	774337
MB 680-774337/1-A	Method Blank	Total Recoverable	Water	6010D	774337
LCS 680-774337/2-A	Lab Control Sample	Total Recoverable	Water	6010D	774337

Analysis Batch: 774740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233802-4	Equipment Blank	Total/NA	Water	7470A	774521
MB 680-774521/1-A	Method Blank	Total/NA	Water	7470A	774521
LCS 680-774521/2-A	Lab Control Sample	Total/NA	Water	7470A	774521

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Client Sample ID: OWR-11

Lab Sample ID: 680-233802-1

Date Collected: 04/17/23 11:16

Matrix: Water

Date Received: 04/19/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1014.4 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777396	05/07/23 20:45	GEM	EET SAV
Instrument ID: CSGK										
Total Recoverable	Prep	3005A			25 mL	25 mL	774337	04/20/23 07:08	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774563	04/20/23 14:21	BJB	EET SAV
Instrument ID: ICPH										

Client Sample ID: OWR-11F

Lab Sample ID: 680-233802-2

Date Collected: 04/17/23 11:16

Matrix: Water

Date Received: 04/19/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			988 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Dissolved	Analysis	8081B/8082A		1	1 mL	1 mL	777396	05/07/23 21:00	GEM	EET SAV
Instrument ID: CSGK										
Dissolved	Prep	3005A			25 mL	25 mL	774337	04/20/23 07:08	RR	EET SAV
Dissolved	Analysis	6010D		1			774563	04/20/23 14:15	BJB	EET SAV
Instrument ID: ICPH										

Client Sample ID: Purgewater

Lab Sample ID: 680-233802-3

Date Collected: 04/17/23 15:50

Matrix: Water

Date Received: 04/19/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			989.2 mL	5 mL	780475	05/25/23 18:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	780802	05/27/23 20:43	UI	EET SAV
Instrument ID: CSGK										

Client Sample ID: Equipment Blank

Lab Sample ID: 680-233802-4

Date Collected: 04/17/23 16:05

Matrix: Water

Date Received: 04/19/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	775776	04/27/23 20:30	Y1S	EET SAV
Instrument ID: CMSB										
Total/NA	Prep	680			992.8 mL	1.0 mL	374605	05/11/23 09:16	UBKG	ELLE
Total/NA	Analysis	680		1	1 mg/L	1 mg/L	375832	05/16/23 01:17	UAD3	ELLE
Instrument ID: 21949										
Total/NA	Prep	3520C			1039.8 mL	1 mL	775095	04/24/23 19:29	WRB	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	775528	04/26/23 18:23	OK	EET SAV
Instrument ID: CMST										
Total/NA	Prep	3520C			1025.5 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777396	05/07/23 21:32	GEM	EET SAV
Instrument ID: CSGK										

Eurofins Savannah

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Client Sample ID: Equipment Blank

Lab Sample ID: 680-233802-4

Date Collected: 04/17/23 16:05

Matrix: Water

Date Received: 04/19/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1060.2 mL	2 mL	609783	04/24/23 14:32	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610700	05/01/23 18:43	SP	EET DEN
Instrument ID: SGC_D2										
Total Recoverable	Prep	3005A			25 mL	25 mL	774337	04/20/23 07:08	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774563	04/20/23 14:18	BJB	EET SAV
Instrument ID: ICPH										
Total/NA	Prep	7470A			50 mL	50 mL	774521	04/20/23 17:11	JKL	EET SAV
Total/NA	Analysis	7470A		1			774740	04/21/23 14:26	JKL	EET SAV
Instrument ID: QuickTrace2										

Client Sample ID: Trip blank20230417

Lab Sample ID: 680-233802-5

Date Collected: 04/17/23 16:15

Matrix: Water

Date Received: 04/19/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	775852	04/28/23 14:42	P1C	EET SAV
Instrument ID: CMSAA										
Total/NA	Analysis	8260D		1	5 mL	5 mL	775776	04/27/23 20:50	Y1S	EET SAV
Instrument ID: CMSB										

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Savannah

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-23

Laboratory: Eurofins 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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-24
Arizona	State	AZ0713	05-22-23
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-24
Connecticut	State	PH-0686	05-23-23
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	05-02-23
New Hampshire	NELAP	205319	04-28-23 *
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Oregon	NELAP	4025-011	01-10-24
Pennsylvania	NELAP	013	07-31-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	12037	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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	0001.01	11-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Savannah

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	<cert No.>	01-31-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	05-17-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	05-22-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	05-17-23
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-24
Massachusetts	State	M-PA009	05-24-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	05-18-23
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-23-46	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24

Eurofins Savannah

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wyoming (UST)	A2LA	0001.01	11-30-24

- 1
- 2
- 3
- 4
- 5
- 6
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- 10
- 11
- 12

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2023

Job ID: 680-233802-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
680	Polychlorinated Biphenyls by GCMS	EPA	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	EET SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	EET DEN
6010D	Metals (ICP)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
680	Polychlorinated Biphenyls by GCMS Preparation for Liquids	EPA	ELLE
7470A	Preparation, Mercury	SW846	EET 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:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Ver- 06/08/2021

5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858

Chain of Custody Record

[illegible]

in

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-233802-1

Login Number: 233802

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	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 $<6\text{mm}$ (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: 680-233802-1

Login Number: 233802

List Number: 2

Creator: Rystrom, Joshua R

List Source: Eurofins Denver

List Creation: 04/22/23 10:47 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (1/4").	True	
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: 680-233802-1

Login Number: 233802

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 3

List Creation: 04/25/23 12:45 PM

Creator: McCaskey, Jonathan

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
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 ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	N/A	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc.
 Project Name: RCRA Groundwater Monitoring
 Reviewer: Jessica Alanis

Project Manager: Noel Savoie
 Project Number: 680-233804-1
 Validation Date: 08/31/2023

Laboratory: Eurofins Savannah and Denver Laboratories

SDG #: 680-233804-1

Analytical Method (type and no.): VOCs (8260B), SVOCS (8270D), PCBs (8081A/8082B), Pesticides (8141B)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐

Sample Names: OW-15, OW-15F, OW-16A, OW-16AF, Trip blank 20230417

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?	☒	☐	☐	<u>Trip blank 20230417</u>
g) Field parameters collected (note types)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
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: Surrogate 2,4,6-Tribromophenol in Method 8270D CCV was outside method criteria; however, all associated samples were within control limits for this surrogate, no qualification is made on this basis. The laboratory identified 4-Nitrophenol as a poor/erratic performer, indicating any detection should be considered estimated; however, this analyte was not detected in the samples, no qualification is made on this basis. Internal standard recoveries for method 8141B in OW-15 exceeded control limits on one column, but met the limit on the other, so no qualification is made on this basis.

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?	☐	☒	☐	<u>1,2,4-Trichlorobenzene RL in sample OW-16A and the Method Blank is elevated (5 ug/L) above the designated 1 ug/L RL. The OW-16A sample result is above this elevated RL and no other sample has detections of 1,2,4-Trichlorobenzene; therefore, no data is qualified on this basis.</u>
f) Were any sample dilutions noted?	☒	☐	☐	<u>Parathion in sample OW-16A, DF = 2. Chlorobenzene and 1,2,4-Trichlorobenzene in OW-16A, DF = 5.</u>
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)?	☐	☒	☐	_____
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 LCS/LCSD RPDs <13% _____
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?	☐	☐	☒	_____
Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☒	☐	DCB recovered low (12%) below the lower laboratory control limit of 14% of method 8081B/8082A in sample OW-15F, but above the expanded lower acceptance limit defined in the NFG, 2020. Associated results are qualified as estimated (UJ). DCB recovered low (below the lab standard of 14% and below the expanded lower acceptance limit of 10%) for sample OW-16AF (6%) for Aroclor analysis by 8081B/8082A. A strict interpretation of the NFG would reject these non-detect results of PCB Aroclors; however, the results were qualified as estimated (UJ) based on professional judgement since these sample results are in line with expected results as PCB Aroclors have only been detected once in the last 19 years in the filtered sample collected at OW-16A, and only when the unfiltered total PCBs were approximately 5 times greater than unfiltered total PCBs in OW-16AF from this sampling event.
b) Were surrogate recoveries not calculated due to dilutions?	☐	☒	☐	_____

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
OW-15F	PCB-1016	<0.5 ug/L	UJ	Low DCB surrogate recovery.
OW-15F	PCB-1221	<0.5 ug/L	UJ	Low DCB surrogate recovery.
OW-15F	PCB-1232	<0.5 ug/L	UJ	Low DCB surrogate recovery.
OW-15F	PCB-1242	<0.5 ug/L	UJ	Low DCB surrogate recovery.
OW-15F	PCB-1248	<0.5 ug/L	UJ	Low DCB surrogate recovery.
OW-15F	PCB-1254	<0.5 ug/L	UJ	Low DCB surrogate recovery.
OW-15F	PCB-1260	<0.5 ug/L	UJ	Low DCB surrogate recovery.
OW-15F	PCB-1268	<0.5 ug/L	UJ	Low DCB surrogate recovery.
OW-16AF	PCB-1016	<0.5 ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit.
OW-16AF	PCB-1221	<0.5 ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit.
OW-16AF	PCB-1232	<0.5 ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit.
OW-16AF	PCB-1242	<0.5 ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit.
OW-16AF	PCB-1248	<0.5 ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit.
OW-16AF	PCB-1254	<0.5 ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit.
OW-16AF	PCB-1260	<0.5 ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit.
OW-16AF	PCB-1268	<0.5 ug/L	UJ	Low DCB surrogate recovery below the expanded lower acceptance limit.

Signature: _____



Date: 8/31/23

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc.

Project Manager: Noel Savoie

Project Name: RCRA Groundwater Monitoring

Project Number: 680-233804-1

Reviewer: Jessica Alanis

Validation Date: 08/31/2023

Laboratory: Eurofins TestAmerica Savannah

SDG #: 680-233804-1

Analytical Method (type and no.): Metals (6010D), Mercury (7470A)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐

Sample Names: OW-15, OW-15F, OW-16A, OW-16AF

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)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
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)?	☐	☒	☐	_____
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?	☐	☐	☒	_____
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?	☐	☐	☒	_____

Comments/Notes:
 No data requires qualification. _____

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason



Signature: _____

Date: 08/31/2023

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044
Generated 5/17/2023 4:05:24 PM Revision 1

JOB DESCRIPTION

Anniston RCRA 2023

JOB NUMBER

680-233804-1

Eurofins Savannah

Job Notes

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Authorization



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Revision 1

Authorized for release by
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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Qualifiers

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.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Job ID: 680-233804-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-233804-1

Revision

The report being provided is a revision of the original report sent on 5/9/2023. The report (revision 1) is being revised due to a data review for OW-16A (680-233804-3), which resulted in a correction for an incorrect upload.

Receipt

The samples were received on 4/19/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C

GC/MS VOA

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-775776.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: OW-16A (680-233804-3). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-775852.

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 continuing calibration verification (CCV) analyzed in batch 680-776070 was outside the method criteria for the following surrogate: 2,4,6-Tribromophenol (Surr). The affected surrogate was however within surrogate control limits in the CCV. All associated batch QC and samples were also within control limits for this surrogate.

Method 8270D: The following analyte has been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: 4-Nitrophenol. This analyte may have a %D >20% but must be <50%. If >50%, a CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered 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: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-609783 method: 8141.

Method 8141B: Internal standard (ISTD) response for the following sample in preparation batch 280-609783 and analytical batch 280-610700 exceeded the control limit on the secondary column: OW-15 (680-233804-1). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

Method 8141B: Internal Standard (ISTD) retention times for Tributyl phosphate in the following sample in preparation batch 280-609783 and analytical batch 280-610700 were outside the acceptance criteria of +/-0.03 minutes from the CCVIS: (MB 280-609783/1-A). The internal standard is not associated with any requested analytes; therefore the data is reported.

Method 8141B: The following sample in preparation batch 280-609783 and analytical batch 280-611241 was diluted to bring the concentration of target analytes within the calibration range: OW-16A (680-233804-3). Elevated reporting limits (RLs) are provided.

Method 8141B: Internal Standard (ISTD) retention times for Tributyl phosphate in the following sample in analytical batch 280-611241 were outside the acceptance criteria of +/-0.03 minutes from the mid-point of the initial calibration: (CCVIS 280-611241/5). The internal standard is not associated with any requested analytes; therefore the data is reported.

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Job ID: 680-233804-1 (Continued)

Laboratory: Eurofins Savannah (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides/PCBs

Method 8081B_8082A: Surrogate recovery for the following sample was outside control limits: OW-16AF (680-233804-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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-15F (680-233804-2). 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.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-233804-1	OW-15	Water	04/17/23 12:35	04/19/23 10:30
680-233804-2	OW-15F	Water	04/17/23 12:35	04/19/23 10:30
680-233804-3	OW-16A	Water	04/17/23 10:48	04/19/23 10:30
680-233804-4	OW-16AF	Water	04/17/23 10:48	04/19/23 10:30
680-233804-5	Tripblank20230417	Water	04/17/23 15:30	04/19/23 10:30

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Client Sample ID: OW-15

Lab Sample ID: 680-233804-1

No Detections.

Client Sample ID: OW-15F

Lab Sample ID: 680-233804-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt, Dissolved	0.018		0.010	0.0070	mg/L	1		6010D	Dissolved

Client Sample ID: OW-16A

Lab Sample ID: 680-233804-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	410		5.0	2.7	ug/L	5		8260D	Total/NA
PCB-1248	13		0.50	0.088	ug/L	1		8081B/8082A	Total/NA
PCB-1254	14		0.50	0.088	ug/L	1		8081B/8082A	Total/NA
Parathion - DL	12		1.0	0.28	ug/L	2		8141B	Total/NA
Cobalt	0.039		0.010	0.0014	mg/L	1		6010D	Total
Manganese	0.80		0.010	0.0013	mg/L	1		6010D	Recoverable
									Total
									Recoverable

Client Sample ID: OW-16AF

Lab Sample ID: 680-233804-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt, Dissolved	0.040		0.010	0.0014	mg/L	1		6010D	Dissolved
Manganese, Dissolved	0.83		0.010	0.0013	mg/L	1		6010D	Dissolved

Client Sample ID: Tripblank20230417

Lab Sample ID: 680-233804-5

No Detections.

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Client Sample ID: OW-15

Lab Sample ID: 680-233804-1

Date Collected: 04/17/23 12:35

Matrix: Water

Date Received: 04/19/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/27/23 21:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	110		70 - 130					04/27/23 21:50	1
1,2-Dichloroethane-d4 (Surr)	99		60 - 124					04/27/23 21:50	1
Dibromofluoromethane (Surr)	106		70 - 130					04/27/23 21:50	1
4-Bromofluorobenzene (Surr)	103		70 - 130					04/27/23 21:50	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.51	ug/L		04/23/23 21:50	04/30/23 04:47	1
1,4-Dichlorobenzene	<10		10	0.52	ug/L		04/23/23 21:50	04/30/23 04:47	1
4-Nitrophenol	<25		25	1.8	ug/L		04/23/23 21:50	04/30/23 04:47	1
o,o',o"-Triethylphosphorothioate	<10		10	0.96	ug/L		04/23/23 21:50	04/30/23 04:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		32 - 113				04/23/23 21:50	04/30/23 04:47	1
2-Fluorophenol	53		26 - 109				04/23/23 21:50	04/30/23 04:47	1
Nitrobenzene-d5	66		32 - 118				04/23/23 21:50	04/30/23 04:47	1
Phenol-d5	59		27 - 110				04/23/23 21:50	04/30/23 04:47	1
Terphenyl-d14	66		10 - 126				04/23/23 21:50	04/30/23 04:47	1
2,4,6-Tribromophenol	80		39 - 124				04/23/23 21:50	04/30/23 04:47	1

Method: SW846 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		05/05/23 21:00	05/07/23 21:48	1
PCB-1221	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 21:48	1
PCB-1232	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 21:48	1
PCB-1242	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 21:48	1
PCB-1248	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 21:48	1
PCB-1254	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 21:48	1
PCB-1260	<0.50		0.50	0.059	ug/L		05/05/23 21:00	05/07/23 21:48	1
PCB-1268	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 21:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	63		14 - 130				05/05/23 21:00	05/07/23 21:48	1
Tetrachloro-m-xylene	77	p	40 - 130				05/05/23 21:00	05/07/23 21:48	1

Method: SW846 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		04/24/23 14:32	05/01/23 19:22	1
Tetraethylthiopyrophosphate	<1.5		1.5	0.16	ug/L		04/24/23 14:32	05/01/23 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	76		60 - 154				04/24/23 14:32	05/01/23 19:22	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/20/23 07:08	04/20/23 14:25	1

Eurofins Savannah

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Client Sample ID: OW-15

Date Collected: 04/17/23 12:35

Date Received: 04/19/23 10:30

Lab Sample ID: 680-233804-1

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/21/23 18:28	04/24/23 14:14	1

Client Sample ID: OW-15F

Date Collected: 04/17/23 12:35

Date Received: 04/19/23 10:30

Lab Sample ID: 680-233804-2

Matrix: Water

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 19:23	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 19:23	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 19:23	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 19:23	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 19:23	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 19:23	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		05/05/23 21:00	05/07/23 19:23	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	12	S1-	14 - 130				05/05/23 21:00	05/07/23 19:23	1
Tetrachloro-m-xylene	87		40 - 130				05/05/23 21:00	05/07/23 19:23	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.018		0.010	0.0070	mg/L		04/20/23 07:19	04/20/23 15:28	1

Method: SW846 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		04/24/23 09:48	04/24/23 15:10	1

Client Sample ID: OW-16A

Date Collected: 04/17/23 10:48

Date Received: 04/19/23 10:30

Lab Sample ID: 680-233804-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.75	ug/L			04/28/23 19:23	5
1,2,4-Trichlorobenzene	410		5.0	2.7	ug/L			04/28/23 19:23	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/28/23 19:23	5
1,2-Dichloroethane-d4 (Surr)	82		60 - 124					04/28/23 19:23	5
Dibromofluoromethane (Surr)	92		70 - 130					04/28/23 19:23	5
4-Bromofluorobenzene (Surr)	102		70 - 130					04/28/23 19:23	5

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.52	ug/L		04/23/23 21:50	04/30/23 05:09	1
1,4-Dichlorobenzene	<10		10	0.53	ug/L		04/23/23 21:50	04/30/23 05:09	1
4-Nitrophenol	<25		25	1.9	ug/L		04/23/23 21:50	04/30/23 05:09	1
o,o',o"-Triethylphosphorothioate	<10		10	0.99	ug/L		04/23/23 21:50	04/30/23 05:09	1

Eurofins Savannah

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Client Sample ID: OW-16A

Lab Sample ID: 680-233804-3

Date Collected: 04/17/23 10:48

Matrix: Water

Date Received: 04/19/23 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		32 - 113	04/23/23 21:50	04/30/23 05:09	1
2-Fluorophenol	56		26 - 109	04/23/23 21:50	04/30/23 05:09	1
Nitrobenzene-d5	72		32 - 118	04/23/23 21:50	04/30/23 05:09	1
Phenol-d5	59		27 - 110	04/23/23 21:50	04/30/23 05:09	1
Terphenyl-d14	61		10 - 126	04/23/23 21:50	04/30/23 05:09	1
2,4,6-Tribromophenol	86		39 - 124	04/23/23 21:50	04/30/23 05:09	1

Method: SW846 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		05/05/23 21:00	05/07/23 19:37	1
PCB-1221	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 19:37	1
PCB-1232	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 19:37	1
PCB-1242	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 19:37	1
PCB-1248	13		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 19:37	1
PCB-1254	14		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 19:37	1
PCB-1260	<0.50		0.50	0.059	ug/L		05/05/23 21:00	05/07/23 19:37	1
PCB-1268	<0.50		0.50	0.088	ug/L		05/05/23 21:00	05/07/23 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	55		14 - 130	05/05/23 21:00	05/07/23 19:37	1
Tetrachloro-m-xylene	54	p	40 - 130	05/05/23 21:00	05/07/23 19:37	1

Method: SW846 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetraethyldithiopyrophosphate	<1.5		1.5	0.16	ug/L		04/24/23 14:32	05/01/23 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	89		60 - 154	04/24/23 14:32	05/01/23 20:01	1

Method: SW846 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	12		1.0	0.28	ug/L		04/24/23 14:32	05/04/23 15:34	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	83	D	60 - 154	04/24/23 14:32	05/04/23 15:34	2

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.039		0.010	0.0014	mg/L		04/20/23 07:08	04/20/23 14:35	1
Manganese	0.80		0.010	0.0013	mg/L		04/20/23 07:08	04/20/23 14:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/21/23 18:28	04/24/23 14:15	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Client Sample ID: OW-16AF

Lab Sample ID: 680-233804-4

Date Collected: 04/17/23 10:48

Matrix: Water

Date Received: 04/19/23 10:30

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 19:52	1
PCB-1221, Dissolved	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 19:52	1
PCB-1232, Dissolved	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 19:52	1
PCB-1242, Dissolved	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 19:52	1
PCB-1248, Dissolved	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 19:52	1
PCB-1254, Dissolved	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 19:52	1
PCB-1260, Dissolved	<0.50		0.50	0.059	ug/L		05/05/23 21:00	05/07/23 19:52	1
PCB-1268, Dissolved	<0.50		0.50	0.089	ug/L		05/05/23 21:00	05/07/23 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	6	S1- p	14 - 130				05/05/23 21:00	05/07/23 19:52	1
Tetrachloro-m-xylene	75		40 - 130				05/05/23 21:00	05/07/23 19:52	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	0.040		0.010	0.0014	mg/L		04/20/23 07:08	04/20/23 14:38	1
Manganese, Dissolved	0.83		0.010	0.0013	mg/L		04/20/23 07:08	04/20/23 14:38	1

Method: SW846 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		04/21/23 18:28	04/24/23 14:17	1

Client Sample ID: Tripblank20230417

Lab Sample ID: 680-233804-5

Date Collected: 04/17/23 15:30

Matrix: Water

Date Received: 04/19/23 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/27/23 21:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	110		70 - 130					04/27/23 21:10	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 124					04/27/23 21:10	1
Dibromofluoromethane (Surr)	106		70 - 130					04/27/23 21:10	1
4-Bromofluorobenzene (Surr)	103		70 - 130					04/27/23 21:10	1

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Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (70-130)	DCA (60-124)	DBFM (70-130)	BFB (70-130)
680-233804-1	OW-15	110	99	106	103
680-233804-3	OW-16A	98	82	92	102
680-233804-5	Tripblank20230417	110	101	106	103
LCS 680-775776/3	Lab Control Sample	107	100	107	106
LCS 680-775852/5	Lab Control Sample	99	89	95	107
LCSD 680-775776/4	Lab Control Sample Dup	109	113	108	105
LCSD 680-775852/6	Lab Control Sample Dup	100	89	95	107
MB 680-775776/7	Method Blank	109	100	104	105
MB 680-775852/9	Method Blank	99	83	92	106

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (32-113)	2FP (26-109)	NBZ (32-118)	PHL (27-110)	TPHL (10-126)	TBP (39-124)
680-233804-1	OW-15	63	53	66	59	66	80
680-233804-3	OW-16A	66	56	72	59	61	86
LCS 680-774872/22-A	Lab Control Sample	65	53	59	56	77	87
LCS 680-774872/25-A	Lab Control Sample	66	54	66	59	74	81
LCSD 680-774872/26-A	Lab Control Sample Dup	71	54	70	56	71	84
MB 680-774872/21-A	Method Blank	68	56	72	45	81	76

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1 (14-130)	TCX2 (40-130)
680-233804-1	OW-15	63	77 p
680-233804-3	OW-16A	55	54 p
LCS 680-777299/22-A	Lab Control Sample	62	63
MB 680-777299/21-A	Method Blank	42	51

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

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Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water

Prep Type: Dissolved

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP2 (14-130)	TCX1 (40-130)
680-233804-2	OW-15F	12 S1-	87

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)

Lab Sample ID	Client Sample ID	DCBP1 (14-130)	TCX1 (40-130)
680-233804-4	OW-16AF	6 S1- p	75

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)

Lab Sample ID	Client Sample ID	TPP1 (60-154)
680-233804-1	OW-15	76
680-233804-3	OW-16A	89
680-233804-3 - DL	OW-16A	83 D
LCS 280-609783/2-A	Lab Control Sample	85
LCSD 280-609783/25-A	Lab Control Sample Dup	88
MB 280-609783/1-A	Method Blank	74

Surrogate Legend

TPP = Triphenylphosphate

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-775776/7

Matrix: Water

Analysis Batch: 775776

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	0.15	ug/L			04/27/23 19:30	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		70 - 130					04/27/23 19:30	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 124					04/27/23 19:30	1
Dibromofluoromethane (Surr)	104		70 - 130					04/27/23 19:30	1
4-Bromofluorobenzene (Surr)	105		70 - 130					04/27/23 19:30	1

Lab Sample ID: LCS 680-775776/3

Matrix: Water

Analysis Batch: 775776

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	55.3		ug/L		111	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	107		70 - 130				
1,2-Dichloroethane-d4 (Surr)	100		60 - 124				
Dibromofluoromethane (Surr)	107		70 - 130				
4-Bromofluorobenzene (Surr)	106		70 - 130				

Lab Sample ID: LCSD 680-775776/4

Matrix: Water

Analysis Batch: 775776

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	54.7		ug/L		109	70 - 130	1	30
Surrogate	%Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	109		70 - 130						
1,2-Dichloroethane-d4 (Surr)	113		60 - 124						
Dibromofluoromethane (Surr)	108		70 - 130						
4-Bromofluorobenzene (Surr)	105		70 - 130						

Lab Sample ID: MB 680-775852/9

Matrix: Water

Analysis Batch: 775852

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	0.15	ug/L			04/28/23 13:31	1
1,2,4-Trichlorobenzene	<5.0		5.0	0.53	ug/L			04/28/23 13:31	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130					04/28/23 13:31	1
1,2-Dichloroethane-d4 (Surr)	83		60 - 124					04/28/23 13:31	1
Dibromofluoromethane (Surr)	92		70 - 130					04/28/23 13:31	1
4-Bromofluorobenzene (Surr)	106		70 - 130					04/28/23 13:31	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-775852/5

Matrix: Water

Analysis Batch: 775852

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	51.0		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	50.0	51.1		ug/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	89		60 - 124
Dibromofluoromethane (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 680-775852/6

Matrix: Water

Analysis Batch: 775852

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	51.8		ug/L		104	70 - 130	2	30
1,2,4-Trichlorobenzene	50.0	52.0		ug/L		104	70 - 130	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	89		60 - 124
Dibromofluoromethane (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-774872/21-A

Matrix: Water

Analysis Batch: 777012

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 774872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.53	ug/L		04/23/23 21:50	05/04/23 18:39	1
1,4-Dichlorobenzene	<10		10	0.54	ug/L		04/23/23 21:50	05/04/23 18:39	1
4-Nitrophenol	<25		25	1.9	ug/L		04/23/23 21:50	05/04/23 18:39	1
o,o',o"-Triethylphosphorothioate	<10		10	1.0	ug/L		04/23/23 21:50	05/04/23 18:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		32 - 113	04/23/23 21:50	05/04/23 18:39	1
2-Fluorophenol	56		26 - 109	04/23/23 21:50	05/04/23 18:39	1
Nitrobenzene-d5	72		32 - 118	04/23/23 21:50	05/04/23 18:39	1
Phenol-d5	45		27 - 110	04/23/23 21:50	05/04/23 18:39	1
Terphenyl-d14	81		10 - 126	04/23/23 21:50	05/04/23 18:39	1
2,4,6-Tribromophenol	76		39 - 124	04/23/23 21:50	05/04/23 18:39	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-774872/22-A

Matrix: Water

Analysis Batch: 776064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	100	60.1		ug/L		60	31 - 130
1,4-Dichlorobenzene	100	57.6		ug/L		58	31 - 130
4-Nitrophenol	200	222		ug/L		111	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	65		32 - 113
2-Fluorophenol	53		26 - 109
Nitrobenzene-d5	59		32 - 118
Phenol-d5	56		27 - 110
Terphenyl-d14	77		10 - 126
2,4,6-Tribromophenol	87		39 - 124

Lab Sample ID: LCS 680-774872/25-A

Matrix: Water

Analysis Batch: 776064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o"-Triethylphosphorothioate	100	85.8		ug/L		86	23 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	66		32 - 113
2-Fluorophenol	54		26 - 109
Nitrobenzene-d5	66		32 - 118
Phenol-d5	59		27 - 110
Terphenyl-d14	74		10 - 126
2,4,6-Tribromophenol	81		39 - 124

Lab Sample ID: LCSD 680-774872/26-A

Matrix: Water

Analysis Batch: 776064

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 774872

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o,o',o"-Triethylphosphorothioate	100	97.3		ug/L		97	23 - 130	13	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	71		32 - 113
2-Fluorophenol	54		26 - 109
Nitrobenzene-d5	70		32 - 118
Phenol-d5	56		27 - 110
Terphenyl-d14	71		10 - 126
2,4,6-Tribromophenol	84		39 - 124

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-777299/21-A

Matrix: Water

Analysis Batch: 777396

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 777299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1221	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1232	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1242	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1248	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1254	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1260	<0.50		0.50	0.060	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1268	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		05/05/23 21:00	05/07/23 17:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	42		14 - 130	05/05/23 21:00	05/07/23 17:19	1
Tetrachloro-m-xylene	51		40 - 130	05/05/23 21:00	05/07/23 17:19	1

Lab Sample ID: LCS 680-777299/22-A

Matrix: Water

Analysis Batch: 777396

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 777299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	3.00	2.59		ug/L		86	44 - 130
PCB-1016, Dissolved	3.00	2.59		ug/L		86	44 - 130
PCB-1260	3.00	3.31		ug/L		110	35 - 130
PCB-1260, Dissolved	3.00	3.31		ug/L		110	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	62		14 - 130
Tetrachloro-m-xylene	63		40 - 130

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-609783/1-A

Matrix: Water

Analysis Batch: 610700

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 609783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/24/23 14:32	05/01/23 14:10	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.17	ug/L		04/24/23 14:32	05/01/23 14:10	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: MB 280-609783/1-A
Matrix: Water
Analysis Batch: 610700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609783

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	%Recovery	Qualifier	60 - 154	04/24/23 14:32	05/01/23 14:10	1
	74					

Lab Sample ID: LCS 280-609783/2-A
Matrix: Water
Analysis Batch: 610700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	4.00	3.64		ug/L		91	55 - 107
Tetraethylthiopyrophosphate	4.00	3.54		ug/L		88	53 - 110
Surrogate	LCS	LCS	Limits				
Triphenylphosphate	%Recovery	Qualifier	60 - 154				
	85						

Lab Sample ID: LCSD 280-609783/25-A
Matrix: Water
Analysis Batch: 610700

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 609783

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Parathion	4.00	3.93		ug/L		98	55 - 107	8	20
Tetraethylthiopyrophosphate	4.00	3.67		ug/L		92	53 - 110	4	27
Surrogate	LCSD	LCSD	Limits						
Triphenylphosphate	%Recovery	Qualifier	60 - 154						
	88								

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-774337/1-A
Matrix: Water
Analysis Batch: 774563

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 774337

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	Result	Qualifier	0.010	0.0014	mg/L		04/20/23 07:08	04/20/23 13:55	1
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/20/23 07:08	04/20/23 13:55	1
Manganese	<0.010		0.010	0.0013	mg/L		04/20/23 07:08	04/20/23 13:55	1
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/20/23 07:08	04/20/23 13:55	1

Lab Sample ID: LCS 680-774337/2-A
Matrix: Water
Analysis Batch: 774563

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 774337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.0500	0.0519		mg/L		104	80 - 120
Cobalt, Dissolved	0.0500	0.0519		mg/L		104	80 - 120
Manganese	0.400	0.399		mg/L		100	80 - 120
Manganese, Dissolved	0.400	0.399		mg/L		100	80 - 120

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-774750/1-A

Matrix: Water

Analysis Batch: 775072

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 774750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/21/23 18:28	04/24/23 13:47	1
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/21/23 18:28	04/24/23 13:47	1

Lab Sample ID: LCS 680-774750/2-A

Matrix: Water

Analysis Batch: 775072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00222		mg/L		89	80 - 120
Mercury, Dissolved	0.00250	0.00222		mg/L		89	80 - 120

Lab Sample ID: MB 680-774953/1-A

Matrix: Water

Analysis Batch: 775072

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 774953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/24/23 09:48	04/24/23 14:59	1

Lab Sample ID: LCS 680-774953/2-A

Matrix: Water

Analysis Batch: 775072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 774953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury, Dissolved	0.00250	0.00255		mg/L		102	80 - 120

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

GC/MS VOA

Analysis Batch: 775776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-1	OW-15	Total/NA	Water	8260D	
680-233804-5	Tripblank20230417	Total/NA	Water	8260D	
MB 680-775776/7	Method Blank	Total/NA	Water	8260D	
LCS 680-775776/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-775776/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 775852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-3	OW-16A	Total/NA	Water	8260D	
MB 680-775852/9	Method Blank	Total/NA	Water	8260D	
LCS 680-775852/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-775852/6	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 774872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-1	OW-15	Total/NA	Water	3520C	
680-233804-3	OW-16A	Total/NA	Water	3520C	
MB 680-774872/21-A	Method Blank	Total/NA	Water	3520C	
LCS 680-774872/22-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-774872/25-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-774872/26-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 776064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-774872/22-A	Lab Control Sample	Total/NA	Water	8270D	774872
LCS 680-774872/25-A	Lab Control Sample	Total/NA	Water	8270D	774872
LCSD 680-774872/26-A	Lab Control Sample Dup	Total/NA	Water	8270D	774872

Analysis Batch: 776070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-1	OW-15	Total/NA	Water	8270D	774872
680-233804-3	OW-16A	Total/NA	Water	8270D	774872

Analysis Batch: 777012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-774872/21-A	Method Blank	Total/NA	Water	8270D	774872

GC Semi VOA

Prep Batch: 609783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-1	OW-15	Total/NA	Water	3510C	
680-233804-3	OW-16A	Total/NA	Water	3510C	
680-233804-3 - DL	OW-16A	Total/NA	Water	3510C	
MB 280-609783/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-609783/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-609783/25-A	Lab Control Sample Dup	Total/NA	Water	3510C	

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

GC Semi VOA

Analysis Batch: 610700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-1	OW-15	Total/NA	Water	8141B	609783
680-233804-3	OW-16A	Total/NA	Water	8141B	609783
MB 280-609783/1-A	Method Blank	Total/NA	Water	8141B	609783
LCS 280-609783/2-A	Lab Control Sample	Total/NA	Water	8141B	609783
LCSD 280-609783/25-A	Lab Control Sample Dup	Total/NA	Water	8141B	609783

Analysis Batch: 611241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-3 - DL	OW-16A	Total/NA	Water	8141B	609783

Prep Batch: 777299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-1	OW-15	Total/NA	Water	3520C	
680-233804-2	OW-15F	Dissolved	Water	3520C	
680-233804-3	OW-16A	Total/NA	Water	3520C	
680-233804-4	OW-16AF	Dissolved	Water	3520C	
MB 680-777299/21-A	Method Blank	Total/NA	Water	3520C	
LCS 680-777299/22-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 777396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-1	OW-15	Total/NA	Water	8081B/8082A	777299
MB 680-777299/21-A	Method Blank	Total/NA	Water	8081B/8082A	777299
LCS 680-777299/22-A	Lab Control Sample	Total/NA	Water	8081B/8082A	777299

Analysis Batch: 777401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-2	OW-15F	Dissolved	Water	8081B/8082A	777299
680-233804-3	OW-16A	Total/NA	Water	8081B/8082A	777299
680-233804-4	OW-16AF	Dissolved	Water	8081B/8082A	777299

Metals

Prep Batch: 774337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-1	OW-15	Total Recoverable	Water	3005A	
680-233804-3	OW-16A	Total Recoverable	Water	3005A	
680-233804-4	OW-16AF	Dissolved	Water	3005A	
MB 680-774337/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-774337/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 774340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-2	OW-15F	Dissolved	Water	3005A	

Analysis Batch: 774563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-1	OW-15	Total Recoverable	Water	6010D	774337
680-233804-2	OW-15F	Dissolved	Water	6010D	774340
680-233804-3	OW-16A	Total Recoverable	Water	6010D	774337
680-233804-4	OW-16AF	Dissolved	Water	6010D	774337

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Metals (Continued)

Analysis Batch: 774563 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-774337/1-A	Method Blank	Total Recoverable	Water	6010D	774337
LCS 680-774337/2-A	Lab Control Sample	Total Recoverable	Water	6010D	774337

Prep Batch: 774750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-1	OW-15	Total/NA	Water	7470A	
680-233804-3	OW-16A	Total/NA	Water	7470A	
680-233804-4	OW-16AF	Dissolved	Water	7470A	
MB 680-774750/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-774750/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 774953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-2	OW-15F	Dissolved	Water	7470A	
MB 680-774953/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-774953/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 775072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-233804-1	OW-15	Total/NA	Water	7470A	774750
680-233804-2	OW-15F	Dissolved	Water	7470A	774953
680-233804-3	OW-16A	Total/NA	Water	7470A	774750
680-233804-4	OW-16AF	Dissolved	Water	7470A	774750
MB 680-774750/1-A	Method Blank	Total/NA	Water	7470A	774750
MB 680-774953/1-A	Method Blank	Total/NA	Water	7470A	774953
LCS 680-774750/2-A	Lab Control Sample	Total/NA	Water	7470A	774750
LCS 680-774953/2-A	Lab Control Sample	Total/NA	Water	7470A	774953

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Client Sample ID: OW-15

Date Collected: 04/17/23 12:35

Date Received: 04/19/23 10:30

Lab Sample ID: 680-233804-1

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	8260D		1	5 mL	5 mL	775776	04/27/23 21:50	Y1S	EET SAV
	Instrument ID: CMSB									
Total/NA	Prep	3520C			1038.8 mL	1 mL	774872	04/23/23 21:50	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	776070	04/30/23 04:47	T1C	EET SAV
	Instrument ID: CMSN									
Total/NA	Prep	3520C			1018.1 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777396	05/07/23 21:48	GEM	EET SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1019.2 mL	2 mL	609783	04/24/23 14:32	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610700	05/01/23 19:22	SP	EET DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			25 mL	25 mL	774337	04/20/23 07:08	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774563	04/20/23 14:25	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	774750	04/21/23 18:28	JKL	EET SAV
Total/NA	Analysis	7470A		1			775072	04/24/23 14:14	BJB	EET SAV
	Instrument ID: QuickTrace2									

Client Sample ID: OW-15F

Date Collected: 04/17/23 12:35

Date Received: 04/19/23 10:30

Lab Sample ID: 680-233804-2

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			1003.9 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Dissolved	Analysis	8081B/8082A		1	1 mL	1 mL	777401	05/07/23 19:23	GEM	EET SAV
	Instrument ID: CSGZ									
Dissolved	Prep	3005A			25 mL	125 mL	774340	04/20/23 07:19	RR	EET SAV
Dissolved	Analysis	6010D		1			774563	04/20/23 15:28	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	7470A			50 mL	50 mL	774953	04/24/23 09:48	BCB	EET SAV
Dissolved	Analysis	7470A		1			775072	04/24/23 15:10	BJB	EET SAV
	Instrument ID: QuickTrace2									

Client Sample ID: OW-16A

Date Collected: 04/17/23 10:48

Date Received: 04/19/23 10:30

Lab Sample ID: 680-233804-3

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	8260D		5	5 mL	5 mL	775852	04/28/23 19:23	P1C	EET SAV
	Instrument ID: CMSAA									
Total/NA	Prep	3520C			1014.2 mL	1 mL	774872	04/23/23 21:50	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	776070	04/30/23 05:09	T1C	EET SAV
	Instrument ID: CMSN									

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Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Client Sample ID: OW-16A

Lab Sample ID: 680-233804-3

Date Collected: 04/17/23 10:48

Matrix: Water

Date Received: 04/19/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1017.9 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	777401	05/07/23 19:37	GEM	EET SAV
Instrument ID: CSGZ										
Total/NA	Prep	3510C			1040.6 mL	2 mL	609783	04/24/23 14:32	MAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	610700	05/01/23 20:01	SP	EET DEN
Instrument ID: SGC_D2										
Total/NA	Prep	3510C	DL		1040.6 mL	2 mL	609783	04/24/23 14:32	MAS	EET DEN
Total/NA	Analysis	8141B	DL	2	0.25 mL/100g	0.25 mL/100g	611241	05/04/23 15:34	SP	EET DEN
Instrument ID: SGC_D2										
Total Recoverable	Prep	3005A			25 mL	25 mL	774337	04/20/23 07:08	RR	EET SAV
Total Recoverable	Analysis	6010D		1			774563	04/20/23 14:35	BJB	EET SAV
Instrument ID: ICPH										
Total/NA	Prep	7470A			50 mL	50 mL	774750	04/21/23 18:28	JKL	EET SAV
Total/NA	Analysis	7470A		1			775072	04/24/23 14:15	BJB	EET SAV
Instrument ID: QuickTrace2										

Client Sample ID: OW-16AF

Lab Sample ID: 680-233804-4

Date Collected: 04/17/23 10:48

Matrix: Water

Date Received: 04/19/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1008.8 mL	5 mL	777299	05/05/23 21:00	IR	EET SAV
Dissolved	Analysis	8081B/8082A		1	1 mL	1 mL	777401	05/07/23 19:52	GEM	EET SAV
Instrument ID: CSGZ										
Dissolved	Prep	3005A			25 mL	25 mL	774337	04/20/23 07:08	RR	EET SAV
Dissolved	Analysis	6010D		1			774563	04/20/23 14:38	BJB	EET SAV
Instrument ID: ICPH										
Dissolved	Prep	7470A			50 mL	50 mL	774750	04/21/23 18:28	JKL	EET SAV
Dissolved	Analysis	7470A		1			775072	04/24/23 14:17	BJB	EET SAV
Instrument ID: QuickTrace2										

Client Sample ID: Tripblank20230417

Lab Sample ID: 680-233804-5

Date Collected: 04/17/23 15:30

Matrix: Water

Date Received: 04/19/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	775776	04/27/23 21:10	Y1S	EET SAV
Instrument ID: CMSB										

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-23

Laboratory: Eurofins 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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	IA#370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-23 *
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Oregon	NELAP	4025-011	01-10-24
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	12037	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Savannah

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA 2023

Job ID: 680-233804-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	EET SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	EET DEN
6010D	Metals (ICP)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

[illegible]

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-233804-1

Login Number: 233804

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	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 $<6\text{mm}$ (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: 680-233804-1

Login Number: 233804

List Number: 2

Creator: Rystrom, Joshua R

List Source: Eurofins Denver

List Creation: 04/22/23 10:47 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (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 Name: CERCLA Groundwater Monitoring
 Reviewer: Ellen Kainer

Project Manager: Noel Savoie
 Project Number: 680-236362-1
 Validation Date: 09/26/2023

Laboratory: Eurofins Savannah SDG #: 680-236362-1

Analytical Method (type and no.): PCBs (8081B/8082A)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐

Sample Names: T-20F, T-04, T-04F, OW-10, OW-10F, WEL-01, WEL-01F, T-20, T-18F, T-18, Field Duplicate 3, Field Duplicate 3F, Equipment Blank

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?	☒	☐	☐	<u>Field Duplicate 3 (@ OW-10), Field Duplicate 3F (@ OW-10F), and Equipment Blank, MS/MSD (@ OW-10)</u>
g) Field parameters collected (note types)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
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?	☐	☒	☐	

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 - 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
Were field duplicates collected (note original and duplicate sample names)? and Field Duplicate 3F	☒	☐	☐	<u>Originals: OW-10 and OW-10F</u> <u>Duplicates (respectively): Field Duplicate 3</u>
d) Were field dup. precision criteria met (note RPD)?	☒	☐	☐	<u>All original and duplicate samples ND</u>
e) Were lab duplicates analyzed (note original and duplicate samples)?	☐	☒	☐	_____
f) 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?	☐	☒	☐	<u>MSD recovery of PCB-1016 by method 8081B/ 8082A was high, above the laboratory standard of 130%. All associated sample results are non-detect; therefore, no qualification is made on this basis.</u>
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?	☐	☒	☐	<u>Decachlorobiphenyl (DCB) recovered low (below the lab standard of 14% and below the expanded lower acceptance limit of 10%) for sample T-18 (8%) for Aroclor analysis by 8081B/8082A. A strict interpretation of the NFG would indicate the detected results be qualified as estimated (J) and that the non-detect results be rejected; however, the non-detect results were qualified as estimated (UJ) based on professional judgement since these sample results are in line with expected results as all of the non-detect PCB Aroclors have never been detected in T-18.</u>
b) Were surrogate recoveries not calculated due to dilutions?	☐	☒	☐	_____

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
T-18	PCB-1016	<0.5 ug/L	UJ	Low DCB surrogate recovery
T-18	PCB-1221	16	J	Low DCB surrogate recovery
T-18	PCB-1232	<0.5 ug/L	UJ	Low DCB surrogate recovery
T-18	PCB-1242	<0.5 ug/L	UJ	Low DCB surrogate recovery
T-18	PCB-1248	<0.5 ug/L	UJ	Low DCB surrogate recovery
T-18	PCB-1254	<0.5 ug/L	UJ	Low DCB surrogate recovery
T-18	PCB-1260	<0.5 ug/L	UJ	Low DCB surrogate recovery
T-18	PCB-1268	<0.5 ug/L	UJ	Low DCB surrogate recovery

Signature: _____



Date: 26 September 2023

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

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JOB DESCRIPTION

Anniston CERCLA June 2023

JOB NUMBER

680-236362-1

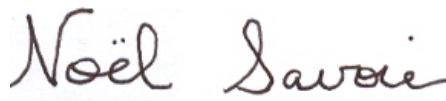
Eurofins Savannah

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Noel Savoie, Project Manager I
Noel.Savoie@et.eurofinsus.com
(850)254-0107

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA June 2023

Job ID: 680-236362-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

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 June 2023

Job ID: 680-236362-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-236362-1	T-20F	Water	06/14/23 09:04	06/15/23 10:19
680-236362-2	T-04	Water	06/14/23 10:27	06/15/23 10:19
680-236362-3	T-04F	Water	06/14/23 10:27	06/15/23 10:19
680-236448-1	Field Duplicate 3	Water	06/13/23 00:00	06/16/23 10:08
680-236448-2	Field Duplicate 3F	Water	06/13/23 00:00	06/16/23 10:08
680-236448-3	OW-10	Water	06/13/23 14:42	06/16/23 10:08
680-236448-4	OW-10F	Water	06/13/23 14:42	06/16/23 10:08
680-236448-5	WEL-01	Water	06/13/23 17:00	06/16/23 10:08
680-236448-6	WEL-01F	Water	06/13/23 17:00	06/16/23 10:08
680-236448-7	T-20	Water	06/14/23 09:04	06/16/23 10:08
680-236448-12	T-18F	Water	06/14/23 14:03	06/16/23 10:08
680-236448-13	Equipment Blank	Water	06/14/23 15:01	06/16/23 10:08
680-236448-14	T-18	Water	06/14/23 14:03	06/16/23 10:08

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA June 2023

Job ID: 680-236362-1

Job ID: 680-236362-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-236362-1

Receipt

The samples were received on 6/15/2023 10:19 AM and 6/16/2023 10:08 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.2°C, 0.8°C, 1.2°C and 3.8°C

Receipt Exceptions

Only one cooler out of four was received on 6/15/2023: T-20F (680-236362-1), T-04 (680-236362-2) and T-04F (680-236362-3) The other three coolers were received 6/16/2023.

Pesticides/PCBs

Method 8081B_8082A: Surrogate recovery for the following sample was outside control limits: T-18 (680-236448-14). 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.

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA June 2023

Job ID: 680-236362-1

Client Sample ID: T-20F

Lab Sample ID: 680-236362-1

Date Collected: 06/14/23 09:04

Matrix: Water

Date Received: 06/15/23 10:19

Method: SW846 8082A - PCBs - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 19:15	1
PCB-1221, Dissolved	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 19:15	1
PCB-1232, Dissolved	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 19:15	1
PCB-1242, Dissolved	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 19:15	1
PCB-1248, Dissolved	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 19:15	1
PCB-1254, Dissolved	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 19:15	1
PCB-1260, Dissolved	<0.50		0.50	0.059	ug/L		06/23/23 16:30	06/28/23 19:15	1
PCB-1268, Dissolved	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	26		14 - 130				06/23/23 16:30	06/28/23 19:15	1
Tetrachloro-m-xylene	78	p	40 - 130				06/23/23 16:30	06/28/23 19:15	1

Client Sample ID: T-04

Lab Sample ID: 680-236362-2

Date Collected: 06/14/23 10:27

Matrix: Water

Date Received: 06/15/23 10:19

Method: SW846 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		06/23/23 16:30	06/28/23 19:31	1
PCB-1221	11		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 19:31	1
PCB-1232	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 19:31	1
PCB-1242	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 19:31	1
PCB-1248	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 19:31	1
PCB-1254	14		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 19:31	1
PCB-1260	0.57		0.50	0.059	ug/L		06/23/23 16:30	06/28/23 19:31	1
PCB-1268	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	55		14 - 130				06/23/23 16:30	06/28/23 19:31	1
Tetrachloro-m-xylene	47	p	40 - 130				06/23/23 16:30	06/28/23 19:31	1

Client Sample ID: T-04F

Lab Sample ID: 680-236362-3

Date Collected: 06/14/23 10:27

Matrix: Water

Date Received: 06/15/23 10:19

Method: SW846 8082A - PCBs - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 19:46	1
PCB-1221, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 19:46	1
PCB-1232, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 19:46	1
PCB-1242, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 19:46	1
PCB-1248, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 19:46	1
PCB-1254, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 19:46	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		06/23/23 16:30	06/28/23 19:46	1
PCB-1268, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	21		14 - 130				06/23/23 16:30	06/28/23 19:46	1
Tetrachloro-m-xylene	74		40 - 130				06/23/23 16:30	06/28/23 19:46	1

Eurofins Savannah

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA June 2023

Job ID: 680-236362-1

Client Sample ID: Field Duplicate 3

Lab Sample ID: 680-236448-1

Date Collected: 06/13/23 00:00

Matrix: Water

Date Received: 06/16/23 10:08

Method: SW846 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		06/23/23 16:30	06/28/23 20:02	1
PCB-1221	<0.50		0.50	0.088	ug/L		06/23/23 16:30	06/28/23 20:02	1
PCB-1232	<0.50		0.50	0.088	ug/L		06/23/23 16:30	06/28/23 20:02	1
PCB-1242	<0.50		0.50	0.088	ug/L		06/23/23 16:30	06/28/23 20:02	1
PCB-1248	<0.50		0.50	0.088	ug/L		06/23/23 16:30	06/28/23 20:02	1
PCB-1254	<0.50		0.50	0.088	ug/L		06/23/23 16:30	06/28/23 20:02	1
PCB-1260	<0.50		0.50	0.058	ug/L		06/23/23 16:30	06/28/23 20:02	1
PCB-1268	<0.50		0.50	0.088	ug/L		06/23/23 16:30	06/28/23 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	22		14 - 130				06/23/23 16:30	06/28/23 20:02	1
Tetrachloro-m-xylene	78		40 - 130				06/23/23 16:30	06/28/23 20:02	1

Client Sample ID: Field Duplicate 3F

Lab Sample ID: 680-236448-2

Date Collected: 06/13/23 00:00

Matrix: Water

Date Received: 06/16/23 10:08

Method: SW846 8082A - PCBs - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 20:18	1
PCB-1221, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 20:18	1
PCB-1232, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 20:18	1
PCB-1242, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 20:18	1
PCB-1248, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 20:18	1
PCB-1254, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 20:18	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		06/23/23 16:30	06/28/23 20:18	1
PCB-1268, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 20:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	21		14 - 130				06/23/23 16:30	06/28/23 20:18	1
Tetrachloro-m-xylene	99		40 - 130				06/23/23 16:30	06/28/23 20:18	1

Client Sample ID: OW-10

Lab Sample ID: 680-236448-3

Date Collected: 06/13/23 14:42

Matrix: Water

Date Received: 06/16/23 10:08

Method: SW846 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	F1	0.50	0.089	ug/L		06/23/23 16:30	06/28/23 18:27	1
PCB-1221	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 18:27	1
PCB-1232	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 18:27	1
PCB-1242	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 18:27	1
PCB-1248	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 18:27	1
PCB-1254	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 18:27	1
PCB-1260	<0.50		0.50	0.059	ug/L		06/23/23 16:30	06/28/23 18:27	1
PCB-1268	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	51		14 - 130				06/23/23 16:30	06/28/23 18:27	1
Tetrachloro-m-xylene	96	p	40 - 130				06/23/23 16:30	06/28/23 18:27	1

Eurofins Savannah

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA June 2023

Job ID: 680-236362-1

Client Sample ID: OW-10F

Lab Sample ID: 680-236448-4

Date Collected: 06/13/23 14:42

Matrix: Water

Date Received: 06/16/23 10:08

Method: SW846 8082A - PCBs - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.087	ug/L		06/23/23 16:30	06/28/23 20:34	1
PCB-1221, Dissolved	<0.50		0.50	0.087	ug/L		06/23/23 16:30	06/28/23 20:34	1
PCB-1232, Dissolved	<0.50		0.50	0.087	ug/L		06/23/23 16:30	06/28/23 20:34	1
PCB-1242, Dissolved	<0.50		0.50	0.087	ug/L		06/23/23 16:30	06/28/23 20:34	1
PCB-1248, Dissolved	<0.50		0.50	0.087	ug/L		06/23/23 16:30	06/28/23 20:34	1
PCB-1254, Dissolved	<0.50		0.50	0.087	ug/L		06/23/23 16:30	06/28/23 20:34	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		06/23/23 16:30	06/28/23 20:34	1
PCB-1268, Dissolved	<0.50		0.50	0.087	ug/L		06/23/23 16:30	06/28/23 20:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	18		14 - 130				06/23/23 16:30	06/28/23 20:34	1
Tetrachloro-m-xylene	100		40 - 130				06/23/23 16:30	06/28/23 20:34	1

Client Sample ID: WEL-01

Lab Sample ID: 680-236448-5

Date Collected: 06/13/23 17:00

Matrix: Water

Date Received: 06/16/23 10:08

Method: SW846 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		06/23/23 16:30	06/28/23 20:50	1
PCB-1221	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 20:50	1
PCB-1232	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 20:50	1
PCB-1242	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 20:50	1
PCB-1248	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 20:50	1
PCB-1254	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 20:50	1
PCB-1260	<0.50		0.50	0.057	ug/L		06/23/23 16:30	06/28/23 20:50	1
PCB-1268	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		14 - 130				06/23/23 16:30	06/28/23 20:50	1
Tetrachloro-m-xylene	88		40 - 130				06/23/23 16:30	06/28/23 20:50	1

Client Sample ID: WEL-01F

Lab Sample ID: 680-236448-6

Date Collected: 06/13/23 17:00

Matrix: Water

Date Received: 06/16/23 10:08

Method: SW846 8082A - PCBs - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:06	1
PCB-1221, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:06	1
PCB-1232, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:06	1
PCB-1242, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:06	1
PCB-1248, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:06	1
PCB-1254, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:06	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		06/23/23 16:30	06/28/23 21:06	1
PCB-1268, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	15		14 - 130				06/23/23 16:30	06/28/23 21:06	1
Tetrachloro-m-xylene	86		40 - 130				06/23/23 16:30	06/28/23 21:06	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA June 2023

Job ID: 680-236362-1

Client Sample ID: T-20

Lab Sample ID: 680-236448-7

Date Collected: 06/14/23 09:04

Matrix: Water

Date Received: 06/16/23 10:08

Method: SW846 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		06/23/23 16:30	06/28/23 21:22	1
PCB-1221	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 21:22	1
PCB-1232	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 21:22	1
PCB-1242	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 21:22	1
PCB-1248	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 21:22	1
PCB-1254	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 21:22	1
PCB-1260	<0.50		0.50	0.059	ug/L		06/23/23 16:30	06/28/23 21:22	1
PCB-1268	<0.50		0.50	0.089	ug/L		06/23/23 16:30	06/28/23 21:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		14 - 130				06/23/23 16:30	06/28/23 21:22	1
Tetrachloro-m-xylene	67		40 - 130				06/23/23 16:30	06/28/23 21:22	1

Client Sample ID: T-18F

Lab Sample ID: 680-236448-12

Date Collected: 06/14/23 14:03

Matrix: Water

Date Received: 06/16/23 10:08

Method: SW846 8082A - PCBs - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:38	1
PCB-1221, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:38	1
PCB-1232, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:38	1
PCB-1242, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:38	1
PCB-1248, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:38	1
PCB-1254, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:38	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		06/23/23 16:30	06/28/23 21:38	1
PCB-1268, Dissolved	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	19		14 - 130				06/23/23 16:30	06/28/23 21:38	1
Tetrachloro-m-xylene	87		40 - 130				06/23/23 16:30	06/28/23 21:38	1

Client Sample ID: Equipment Blank

Lab Sample ID: 680-236448-13

Date Collected: 06/14/23 15:01

Matrix: Water

Date Received: 06/16/23 10:08

Method: SW846 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		06/23/23 16:30	06/28/23 21:53	1
PCB-1221	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:53	1
PCB-1232	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:53	1
PCB-1242	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:53	1
PCB-1248	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:53	1
PCB-1254	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:53	1
PCB-1260	<0.50		0.50	0.058	ug/L		06/23/23 16:30	06/28/23 21:53	1
PCB-1268	<0.50		0.50	0.086	ug/L		06/23/23 16:30	06/28/23 21:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	48		14 - 130				06/23/23 16:30	06/28/23 21:53	1
Tetrachloro-m-xylene	76		40 - 130				06/23/23 16:30	06/28/23 21:53	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA June 2023

Job ID: 680-236362-1

Client Sample ID: T-18

Lab Sample ID: 680-236448-14

Date Collected: 06/14/23 14:03

Matrix: Water

Date Received: 06/16/23 10:08

Method: SW846 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		06/23/23 16:30	06/28/23 22:09	1
PCB-1221	16	p	0.50	0.088	ug/L		06/23/23 16:30	06/28/23 22:09	1
PCB-1232	<0.50		0.50	0.088	ug/L		06/23/23 16:30	06/28/23 22:09	1
PCB-1242	<0.50		0.50	0.088	ug/L		06/23/23 16:30	06/28/23 22:09	1
PCB-1248	<0.50		0.50	0.088	ug/L		06/23/23 16:30	06/28/23 22:09	1
PCB-1254	<0.50		0.50	0.088	ug/L		06/23/23 16:30	06/28/23 22:09	1
PCB-1260	<0.50		0.50	0.058	ug/L		06/23/23 16:30	06/28/23 22:09	1
PCB-1268	<0.50		0.50	0.088	ug/L		06/23/23 16:30	06/28/23 22:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	8	S1-	14 - 130				06/23/23 16:30	06/28/23 22:09	1
Tetrachloro-m-xylene	30	p S1-	40 - 130				06/23/23 16:30	06/28/23 22:09	1

Eurofins Savannah

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA June 2023

Job ID: 680-236362-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas

Chromatography

Lab Sample ID: MB 680-785241/14-A

Matrix: Water

Analysis Batch: 785956

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 785241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		06/23/23 16:30	06/28/23 17:55	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		06/23/23 16:30	06/28/23 17:55	1
PCB-1221	<0.50		0.50	0.090	ug/L		06/23/23 16:30	06/28/23 17:55	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		06/23/23 16:30	06/28/23 17:55	1
PCB-1232	<0.50		0.50	0.090	ug/L		06/23/23 16:30	06/28/23 17:55	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		06/23/23 16:30	06/28/23 17:55	1
PCB-1242	<0.50		0.50	0.090	ug/L		06/23/23 16:30	06/28/23 17:55	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		06/23/23 16:30	06/28/23 17:55	1
PCB-1248	<0.50		0.50	0.090	ug/L		06/23/23 16:30	06/28/23 17:55	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		06/23/23 16:30	06/28/23 17:55	1
PCB-1254	<0.50		0.50	0.090	ug/L		06/23/23 16:30	06/28/23 17:55	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		06/23/23 16:30	06/28/23 17:55	1
PCB-1260	<0.50		0.50	0.060	ug/L		06/23/23 16:30	06/28/23 17:55	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		06/23/23 16:30	06/28/23 17:55	1
PCB-1268	<0.50		0.50	0.090	ug/L		06/23/23 16:30	06/28/23 17:55	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		06/23/23 16:30	06/28/23 17:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		14 - 130	06/23/23 16:30	06/28/23 17:55	1
Tetrachloro-m-xylene	74		40 - 130	06/23/23 16:30	06/28/23 17:55	1

Lab Sample ID: LCS 680-785241/15-A

Matrix: Water

Analysis Batch: 785956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 785241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	3.00	2.26		ug/L		75	44 - 130
PCB-1016, Dissolved	3.00	2.26		ug/L		75	44 - 130
PCB-1260	3.00	3.39		ug/L		113	35 - 130
PCB-1260, Dissolved	3.00	3.39		ug/L		113	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	64		14 - 130
Tetrachloro-m-xylene	92		40 - 130

Lab Sample ID: 680-236448-3 MS

Matrix: Water

Analysis Batch: 785956

Client Sample ID: OW-10

Prep Type: Total/NA

Prep Batch: 785241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.50	F1	2.95	3.17		ug/L		108	44 - 130
PCB-1260	<0.50		2.95	2.10		ug/L		71	35 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	78		14 - 130
Tetrachloro-m-xylene	99		40 - 130

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA June 2023

Job ID: 680-236362-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 680-236448-3 MSD

Matrix: Water

Analysis Batch: 785956

Client Sample ID: OW-10

Prep Type: Total/NA

Prep Batch: 785241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.50	F1	2.96	4.09	F1	ug/L		138	44 - 130	25	50
PCB-1260	<0.50		2.96	2.74		ug/L		93	35 - 130	26	50
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
DCB Decachlorobiphenyl	78		14 - 130								
Tetrachloro-m-xylene	70	p	40 - 130								

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA June 2023

Job ID: 680-236362-1

GC Semi VOA

Prep Batch: 785241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-236362-1	T-20F	Dissolved	Water	3520C	
680-236362-2	T-04	Total/NA	Water	3520C	
680-236362-3	T-04F	Dissolved	Water	3520C	
680-236448-1	Field Duplicate 3	Total/NA	Water	3520C	
680-236448-2	Field Duplicate 3F	Dissolved	Water	3520C	
680-236448-3	OW-10	Total/NA	Water	3520C	
680-236448-4	OW-10F	Dissolved	Water	3520C	
680-236448-5	WEL-01	Total/NA	Water	3520C	
680-236448-6	WEL-01F	Dissolved	Water	3520C	
680-236448-7	T-20	Total/NA	Water	3520C	
680-236448-12	T-18F	Dissolved	Water	3520C	
680-236448-13	Equipment Blank	Total/NA	Water	3520C	
680-236448-14	T-18	Total/NA	Water	3520C	
MB 680-785241/14-A	Method Blank	Total/NA	Water	3520C	
LCS 680-785241/15-A	Lab Control Sample	Total/NA	Water	3520C	
680-236448-3 MS	OW-10	Total/NA	Water	3520C	
680-236448-3 MSD	OW-10	Total/NA	Water	3520C	

Analysis Batch: 785956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-236362-1	T-20F	Dissolved	Water	8082A	785241
680-236362-2	T-04	Total/NA	Water	8081B/8082A	785241
680-236362-3	T-04F	Dissolved	Water	8082A	785241
680-236448-1	Field Duplicate 3	Total/NA	Water	8081B/8082A	785241
680-236448-2	Field Duplicate 3F	Dissolved	Water	8082A	785241
680-236448-3	OW-10	Total/NA	Water	8081B/8082A	785241
680-236448-4	OW-10F	Dissolved	Water	8082A	785241
680-236448-5	WEL-01	Total/NA	Water	8081B/8082A	785241
680-236448-6	WEL-01F	Dissolved	Water	8082A	785241
680-236448-7	T-20	Total/NA	Water	8081B/8082A	785241
680-236448-12	T-18F	Dissolved	Water	8082A	785241
680-236448-13	Equipment Blank	Total/NA	Water	8081B/8082A	785241
680-236448-14	T-18	Total/NA	Water	8081B/8082A	785241
MB 680-785241/14-A	Method Blank	Total/NA	Water	8081B/8082A	785241
LCS 680-785241/15-A	Lab Control Sample	Total/NA	Water	8081B/8082A	785241
680-236448-3 MS	OW-10	Total/NA	Water	8081B/8082A	785241
680-236448-3 MSD	OW-10	Total/NA	Water	8081B/8082A	785241

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA June 2023

Job ID: 680-236362-1

Client Sample ID: T-20F

Date Collected: 06/14/23 09:04

Date Received: 06/15/23 10:19

Lab Sample ID: 680-236362-1

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			1012.2 mL	5 mL	785241	06/23/23 16:30	IR	EET SAV
Dissolved	Analysis	8082A		1	1 mL	1 mL	785956	06/28/23 19:15	UI	EET SAV
Instrument ID: CSGK										

Client Sample ID: T-04

Date Collected: 06/14/23 10:27

Date Received: 06/15/23 10:19

Lab Sample ID: 680-236362-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1010 mL	5 mL	785241	06/23/23 16:30	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	785956	06/28/23 19:31	UI	EET SAV
Instrument ID: CSGK										

Client Sample ID: T-04F

Date Collected: 06/14/23 10:27

Date Received: 06/15/23 10:19

Lab Sample ID: 680-236362-3

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			1046.8 mL	5 mL	785241	06/23/23 16:30	IR	EET SAV
Dissolved	Analysis	8082A		1	1 mL	1 mL	785956	06/28/23 19:46	UI	EET SAV
Instrument ID: CSGK										

Client Sample ID: Field Duplicate 3

Date Collected: 06/13/23 00:00

Date Received: 06/16/23 10:08

Lab Sample ID: 680-236448-1

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			1027.9 mL	5 mL	785241	06/23/23 16:30	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	785956	06/28/23 20:02	UI	EET SAV
Instrument ID: CSGK										

Client Sample ID: Field Duplicate 3F

Date Collected: 06/13/23 00:00

Date Received: 06/16/23 10:08

Lab Sample ID: 680-236448-2

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			1049.3 mL	5 mL	785241	06/23/23 16:30	IR	EET SAV
Dissolved	Analysis	8082A		1	1 mL	1 mL	785956	06/28/23 20:18	UI	EET SAV
Instrument ID: CSGK										

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA June 2023

Job ID: 680-236362-1

Client Sample ID: OW-10

Date Collected: 06/13/23 14:42

Date Received: 06/16/23 10:08

Lab Sample ID: 680-236448-3

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			1012.8 mL	5 mL	785241	06/23/23 16:30	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	785956	06/28/23 18:27	UI	EET SAV
Instrument ID: CSGK										

Client Sample ID: OW-10F

Date Collected: 06/13/23 14:42

Date Received: 06/16/23 10:08

Lab Sample ID: 680-236448-4

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			1038.5 mL	5 mL	785241	06/23/23 16:30	IR	EET SAV
Dissolved	Analysis	8082A		1	1 mL	1 mL	785956	06/28/23 20:34	UI	EET SAV
Instrument ID: CSGK										

Client Sample ID: WEL-01

Date Collected: 06/13/23 17:00

Date Received: 06/16/23 10:08

Lab Sample ID: 680-236448-5

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			1048.9 mL	5 mL	785241	06/23/23 16:30	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	785956	06/28/23 20:50	UI	EET SAV
Instrument ID: CSGK										

Client Sample ID: WEL-01F

Date Collected: 06/13/23 17:00

Date Received: 06/16/23 10:08

Lab Sample ID: 680-236448-6

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	785241	06/23/23 16:30	IR	EET SAV
Dissolved	Analysis	8082A		1	1 mL	1 mL	785956	06/28/23 21:06	UI	EET SAV
Instrument ID: CSGK										

Client Sample ID: T-20

Date Collected: 06/14/23 09:04

Date Received: 06/16/23 10:08

Lab Sample ID: 680-236448-7

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			1015.4 mL	5 mL	785241	06/23/23 16:30	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	785956	06/28/23 21:22	UI	EET SAV
Instrument ID: CSGK										

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA June 2023

Job ID: 680-236362-1

Client Sample ID: T-18F

Lab Sample ID: 680-236448-12

Date Collected: 06/14/23 14:03

Matrix: Water

Date Received: 06/16/23 10:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1051.2 mL	5 mL	785241	06/23/23 16:30	IR	EET SAV
Dissolved	Analysis	8082A		1	1 mL	1 mL	785956	06/28/23 21:38	UI	EET SAV
Instrument ID: CSGK										

Client Sample ID: Equipment Blank

Lab Sample ID: 680-236448-13

Date Collected: 06/14/23 15:01

Matrix: Water

Date Received: 06/16/23 10:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1042.7 mL	5 mL	785241	06/23/23 16:30	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	785956	06/28/23 21:53	UI	EET SAV
Instrument ID: CSGK										

Client Sample ID: T-18

Lab Sample ID: 680-236448-14

Date Collected: 06/14/23 14:03

Matrix: Water

Date Received: 06/16/23 10:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1027 mL	5 mL	785241	06/23/23 16:30	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	785956	06/28/23 22:09	UI	EET SAV
Instrument ID: CSGK										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA June 2023

Job ID: 680-236362-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-23

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Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA June 2023

Job ID: 680-236362-1

Method	Method Description	Protocol	Laboratory
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	EET SAV
8082A	PCBs	SW846	EET SAV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

 eurofins | Environment Testing

Ver 06/08/2024 7/10/2023

5102 LaRoche Avenue
Savannah, GA 31404
Phone 912-354-7858 Fax 912-352-0165

 eurofins | Environment Testing

Ver: 06/08/2021 7/10/2023

eurofins

Environment Testing

Client Information		Sampler: JA, JSU		Lab PM: Savoie, Noel		Carrier Tracking No(s):		COC No: 680-147458-53385 1																					
Client Contact: Ben Smith		Phone: 713-522-6300		E-Mail: Noel.Savoie@et.eurofinsus.com		State of Origin:		Page: 2 Page 1 of 2																					
Company: GSI Environmental, Inc		PWSID:		Analysis Requested						Job #: 6497																			
Address: 2211 Norfolk, Suite 1000		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8081B_8082A - PCB						Total Number of containers		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 Y Trizma Z other (specify) Other:																	
City: Houston		TAT Requested (days): standard																											
State, Zip: TX, 77098-4044		Compliance Project. ☐ Yes ☐ No																											
Phone: 832-295-6335(Tel)		PO #: 54931065																											
Email: WBSmith@gsi-net.com		WO #:																											
Project Name: Anniston CERCLA 2023		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)		8081B_8082A - PCB		Total Number of containers		Special Instructions/Note:											
Field duplicate 3		6/13/23		-		G		W		X		X		2															
Field duplicate 3F		-		-		-		-		X		X		2															
OW-10		1442		-		-		-		X		X		6															
OW-10F		1442		-		-		-		X		X		2															
WEL-01		1700		-		-		-		X		X		2															
WEL-01F		1700		-		-		-		X		X		2															
T-20		6/14/23		904		-		-		X		X		2															
T-20F		904		-		-		-		X		X		2															
T-04		1027		-		-		-		X		X		2															
T-04F		1027		-		-		-		X		X		2															
T-18		1403		-		-		-		X		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)										Special Instructions/QC Requirements																			
Empty Kit Relinquished by					Date					Time					Method of Shipment														
Relinquished by: Jessica Alanus					Date/Time: 6/14/23 1600					Company: GSI					Received by: [Signature]					Date/Time: 6/16/23 1600					Company: [Signature]				
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: 1.4/1.7 0.4/0.7 1.0/1.0																			

5102 LaRoche Avenue
Savannah, GA 31404
Phone 912-354-7858 Fax 912-352-0165

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Ver 06/08/2024/10/2023

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-236362-1

Login Number: 236362

List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	N/A	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.	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 $<6\text{mm}$ (1/4").	True	
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: 680-236362-1

Login Number: 236448

List Source: Eurofins Savannah

List Number: 1

Creator: Drake, Victoria

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	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 $<6\text{mm}$ (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 Name: CERCLA Groundwater Monitoring
 Reviewer: Jessica Alanis

Project Manager: Noel Savoie
 Project Number: 680-238921-1
 Validation Date: 08/28/2023

Laboratory: Eurofins Savannah and Denver Laboratories SDG #: 680-238921-1
 Analytical Method (type and no.): SVOCS (8270D), PCBs (8081B/8082A), Pesticides (8141B)
 Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
 Sample Names: T-09-R, T-09-RF, Field Duplicate 4, Purge Water

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?	☒	☐	☐	<u>Field Duplicate 4 (collected at T-09-R)</u>
g) Field parameters collected (note types)?	☒	☐	☐	<u>Temp., pH, sp. cond., DO, ORP, turbidity</u>
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: The laboratory indicated that insufficient sample volume was available to perform an LCS MS/MSD for Method 8141B. However, site-specific field samples were not submitted for MS/MSD analysis with this laboratory report; therefore, no qualification is made on this basis.

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 - 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)?	☒	☐	☐	<u>Original = T-09-R</u> <u>Duplicate = Field Duplicate 4</u>
b) Were field dup. precision criteria met (note RPD)?	☒	☐	☐	<u>T-09-R and Field Duplicate 4 results all ND</u>
c) Were lab duplicates analyzed (note original and duplicate samples)?	☒	☐	☐	<u>Multiple LCS/LCSD pairs</u>
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	<u>All RPDs ≤ 39%</u>

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?	☐	☐	☒	

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☒	☐	☐	<u>The RPD between the primary and confirmation columns of method 8081B/8082A surrogates in T-09-RF was >40%. The lower value was reported which was within control limits; therefore, no sample results are qualified on this basis.</u>
b) Were surrogate recoveries not calculated due to dilutions?	☐	☐	☒	

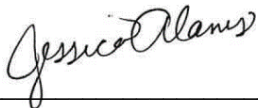
Comments/Notes:

No data requires qualification.

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: 

Date: 8/28/2023

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Generated 9/5/2023 3:00:18 PM Revision 1

JOB DESCRIPTION

Anniston CERCLA

JOB NUMBER

680-238921-1

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
9/5/2023 3:00:18 PM
Revision 1

Authorized for release by
Noel Savoie, Project Manager I
Noel.Savoie@et.eurofinsus.com
(850)254-0107

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA

Job ID: 680-238921-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
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.
α	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

Job ID: 680-238921-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-238921-1	T-09-R	Water	08/09/23 09:07	08/10/23 10:25
680-238921-2	T-09-RF	Water	08/09/23 09:07	08/10/23 10:25
680-238921-3	Field Duplicate 4	Water	08/09/23 00:00	08/10/23 10:25
680-238921-4	Purge Water	Water	08/09/23 13:50	08/10/23 10:25

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA

Job ID: 680-238921-1

Job ID: 680-238921-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-238921-1

Revision

The report being provided is a revision of the original report sent on 8/28/2023. The report (revision 1) is being revised due to provide missing LCS for method 8081/8082.

Receipt

The samples were received on 8/10/2023 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC/MS Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8141B: Insufficient sample volume was available to perform a laboratory control sample LCS matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-622931. An LCSD was prepared instead. Method: 3510C-8141

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides/PCBs

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA

Job ID: 680-238921-1

Client Sample ID: T-09-R

Lab Sample ID: 680-238921-1

Date Collected: 08/09/23 09:07

Matrix: Water

Date Received: 08/10/23 10:25

Method: SW846 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		08/15/23 17:00	08/16/23 20:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		32 - 113				08/15/23 17:00	08/16/23 20:19	1
2-Fluorophenol	57		26 - 109				08/15/23 17:00	08/16/23 20:19	1
Nitrobenzene-d5	67		32 - 118				08/15/23 17:00	08/16/23 20:19	1
Phenol-d5	57		27 - 110				08/15/23 17:00	08/16/23 20:19	1
Terphenyl-d14	57		10 - 126				08/15/23 17:00	08/16/23 20:19	1
2,4,6-Tribromophenol	79		39 - 124				08/15/23 17:00	08/16/23 20:19	1

Method: SW846 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	0.099	ug/L		08/18/23 09:25	08/24/23 19:46	1
PCB-1221	<0.50		0.50	0.099	ug/L		08/18/23 09:25	08/24/23 19:46	1
PCB-1232	<0.50		0.50	0.099	ug/L		08/18/23 09:25	08/24/23 19:46	1
PCB-1242	<0.50		0.50	0.099	ug/L		08/18/23 09:25	08/24/23 19:46	1
PCB-1248	<0.50		0.50	0.099	ug/L		08/18/23 09:25	08/24/23 19:46	1
PCB-1254	<0.50		0.50	0.099	ug/L		08/18/23 09:25	08/24/23 19:46	1
PCB-1260	<0.50		0.50	0.099	ug/L		08/18/23 09:25	08/24/23 19:46	1
PCB-1268	<0.50		0.50	0.099	ug/L		08/18/23 09:25	08/24/23 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	38		30 - 130				08/18/23 09:25	08/24/23 19:46	1
Tetrachloro-m-xylene	31		30 - 130				08/18/23 09:25	08/24/23 19:46	1

Method: SW846 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		08/14/23 19:32	08/16/23 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	73		60 - 154				08/14/23 19:32	08/16/23 18:45	1

Client Sample ID: T-09-RF

Lab Sample ID: 680-238921-2

Date Collected: 08/09/23 09:07

Matrix: Water

Date Received: 08/10/23 10:25

Method: SW846 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	0.098	ug/L		08/18/23 09:25	08/24/23 20:04	1
PCB-1221	<0.50		0.50	0.098	ug/L		08/18/23 09:25	08/24/23 20:04	1
PCB-1232	<0.50		0.50	0.098	ug/L		08/18/23 09:25	08/24/23 20:04	1
PCB-1242	<0.50		0.50	0.098	ug/L		08/18/23 09:25	08/24/23 20:04	1
PCB-1248	<0.50		0.50	0.098	ug/L		08/18/23 09:25	08/24/23 20:04	1
PCB-1254	<0.50		0.50	0.098	ug/L		08/18/23 09:25	08/24/23 20:04	1
PCB-1260	<0.50		0.50	0.098	ug/L		08/18/23 09:25	08/24/23 20:04	1
PCB-1268	<0.50		0.50	0.098	ug/L		08/18/23 09:25	08/24/23 20:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	32	p	30 - 130				08/18/23 09:25	08/24/23 20:04	1
Tetrachloro-m-xylene	45	p	30 - 130				08/18/23 09:25	08/24/23 20:04	1

Eurofins Savannah

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA

Job ID: 680-238921-1

Client Sample ID: Field Duplicate 4

Lab Sample ID: 680-238921-3

Date Collected: 08/09/23 00:00

Matrix: Water

Date Received: 08/10/23 10:25

Method: SW846 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		08/15/23 17:00	08/16/23 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		32 - 113				08/15/23 17:00	08/16/23 20:46	1
2-Fluorophenol	55		26 - 109				08/15/23 17:00	08/16/23 20:46	1
Nitrobenzene-d5	70		32 - 118				08/15/23 17:00	08/16/23 20:46	1
Phenol-d5	57		27 - 110				08/15/23 17:00	08/16/23 20:46	1
Terphenyl-d14	54		10 - 126				08/15/23 17:00	08/16/23 20:46	1
2,4,6-Tribromophenol	76		39 - 124				08/15/23 17:00	08/16/23 20:46	1

Method: SW846 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	0.097	ug/L		08/18/23 09:25	08/24/23 20:22	1
PCB-1221	<0.50		0.50	0.097	ug/L		08/18/23 09:25	08/24/23 20:22	1
PCB-1232	<0.50		0.50	0.097	ug/L		08/18/23 09:25	08/24/23 20:22	1
PCB-1242	<0.50		0.50	0.097	ug/L		08/18/23 09:25	08/24/23 20:22	1
PCB-1248	<0.50		0.50	0.097	ug/L		08/18/23 09:25	08/24/23 20:22	1
PCB-1254	<0.50		0.50	0.097	ug/L		08/18/23 09:25	08/24/23 20:22	1
PCB-1260	<0.50		0.50	0.097	ug/L		08/18/23 09:25	08/24/23 20:22	1
PCB-1268	<0.50		0.50	0.097	ug/L		08/18/23 09:25	08/24/23 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		30 - 130				08/18/23 09:25	08/24/23 20:22	1
Tetrachloro-m-xylene	68		30 - 130				08/18/23 09:25	08/24/23 20:22	1

Method: SW846 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		08/14/23 19:32	08/16/23 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	70		60 - 154				08/14/23 19:32	08/16/23 19:24	1

Client Sample ID: Purge Water

Lab Sample ID: 680-238921-4

Date Collected: 08/09/23 13:50

Matrix: Water

Date Received: 08/10/23 10:25

Method: SW846 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	0.096	ug/L		08/18/23 09:25	08/24/23 20:40	1
PCB-1221	<0.50		0.50	0.096	ug/L		08/18/23 09:25	08/24/23 20:40	1
PCB-1232	<0.50		0.50	0.096	ug/L		08/18/23 09:25	08/24/23 20:40	1
PCB-1242	<0.50		0.50	0.096	ug/L		08/18/23 09:25	08/24/23 20:40	1
PCB-1248	<0.50		0.50	0.096	ug/L		08/18/23 09:25	08/24/23 20:40	1
PCB-1254	<0.50		0.50	0.096	ug/L		08/18/23 09:25	08/24/23 20:40	1
PCB-1260	<0.50		0.50	0.096	ug/L		08/18/23 09:25	08/24/23 20:40	1
PCB-1268	<0.50		0.50	0.096	ug/L		08/18/23 09:25	08/24/23 20:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		30 - 130				08/18/23 09:25	08/24/23 20:40	1
Tetrachloro-m-xylene	70		30 - 130				08/18/23 09:25	08/24/23 20:40	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA

Job ID: 680-238921-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-793474/3-A

Matrix: Water

Analysis Batch: 793726

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 793474

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		08/15/23 17:00	08/16/23 18:57	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		32 - 113				08/15/23 17:00	08/16/23 18:57	1
2-Fluorophenol	43		26 - 109				08/15/23 17:00	08/16/23 18:57	1
Nitrobenzene-d5	57		32 - 118				08/15/23 17:00	08/16/23 18:57	1
Phenol-d5	43		27 - 110				08/15/23 17:00	08/16/23 18:57	1
Terphenyl-d14	68		10 - 126				08/15/23 17:00	08/16/23 18:57	1
2,4,6-Tribromophenol	61		39 - 124				08/15/23 17:00	08/16/23 18:57	1

Lab Sample ID: LCS 680-793474/4-A

Matrix: Water

Analysis Batch: 793726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 793474

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitrophenol	200	151		ug/L		76	44 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl	54		32 - 113				
2-Fluorophenol	47		26 - 109				
Nitrobenzene-d5	58		32 - 118				
Phenol-d5	49		27 - 110				
Terphenyl-d14	73		10 - 126				
2,4,6-Tribromophenol	71		39 - 124				

Lab Sample ID: LCSD 680-793474/5-A

Matrix: Water

Analysis Batch: 793726

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 793474

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol	200	141		ug/L		71	44 - 130	7	50
Surrogate	%Recovery	LCSD Qualifier	Limits						
2-Fluorobiphenyl	57		32 - 113						
2-Fluorophenol	47		26 - 109						
Nitrobenzene-d5	56		32 - 118						
Phenol-d5	48		27 - 110						
Terphenyl-d14	62		10 - 126						
2,4,6-Tribromophenol	71		39 - 124						

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA

Job ID: 680-238921-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-794009/1-A

Matrix: Water

Analysis Batch: 794959

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 794009

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.10	ug/L		08/18/23 09:25	08/24/23 16:46	1
PCB-1221	<0.50		0.50	0.10	ug/L		08/18/23 09:25	08/24/23 16:46	1
PCB-1232	<0.50		0.50	0.10	ug/L		08/18/23 09:25	08/24/23 16:46	1
PCB-1242	<0.50		0.50	0.10	ug/L		08/18/23 09:25	08/24/23 16:46	1
PCB-1248	<0.50		0.50	0.10	ug/L		08/18/23 09:25	08/24/23 16:46	1
PCB-1254	<0.50		0.50	0.10	ug/L		08/18/23 09:25	08/24/23 16:46	1
PCB-1260	<0.50		0.50	0.10	ug/L		08/18/23 09:25	08/24/23 16:46	1
PCB-1268	<0.50		0.50	0.10	ug/L		08/18/23 09:25	08/24/23 16:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		30 - 130				08/18/23 09:25	08/24/23 16:46	1
Tetrachloro-m-xylene	76		30 - 130				08/18/23 09:25	08/24/23 16:46	1

Lab Sample ID: LCS 680-794009/2-A

Matrix: Water

Analysis Batch: 794959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 794009

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	2.40	1.82		ug/L		76	30 - 130
PCB-1260	2.40	1.41		ug/L		59	30 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl	68		30 - 130				
Tetrachloro-m-xylene	59		30 - 130				

Lab Sample ID: LCSD 680-794009/3-A

Matrix: Water

Analysis Batch: 794959

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 794009

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	2.40	2.65		ug/L		110	30 - 130	37	40
PCB-1260	2.40	2.09		ug/L		87	30 - 130	39	40
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
DCB Decachlorobiphenyl	85		30 - 130						
Tetrachloro-m-xylene	79		30 - 130						

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-622931/1-A

Matrix: Water

Analysis Batch: 623133

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 622931

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		08/14/23 19:32	08/16/23 12:54	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA

Job ID: 680-238921-1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: MB 280-622931/1-A

Matrix: Water

Analysis Batch: 623133

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 622931

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	%Recovery	Qualifier		08/14/23 19:32	08/16/23 12:54	1
	61		60 - 154			

Lab Sample ID: LCS 280-622931/2-A

Matrix: Water

Analysis Batch: 623133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 622931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	4.00	3.52		ug/L		88	55 - 120
Surrogate	LCS	LCS	Limits				
Triphenylphosphate	%Recovery	Qualifier					
	83		60 - 154				

Lab Sample ID: LCSD 280-622931/3-A

Matrix: Water

Analysis Batch: 623133

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 622931

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Parathion	4.00	3.18		ug/L		79	55 - 120	10	20
Surrogate	LCSD	LCSD	Limits						
Triphenylphosphate	%Recovery	Qualifier							
	75		60 - 154						

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA

Job ID: 680-238921-1

GC/MS Semi VOA

Prep Batch: 793474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238921-1	T-09-R	Total/NA	Water	3520C	
680-238921-3	Field Duplicate 4	Total/NA	Water	3520C	
MB 680-793474/3-A	Method Blank	Total/NA	Water	3520C	
LCS 680-793474/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-793474/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 793726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238921-1	T-09-R	Total/NA	Water	8270D	793474
680-238921-3	Field Duplicate 4	Total/NA	Water	8270D	793474
MB 680-793474/3-A	Method Blank	Total/NA	Water	8270D	793474
LCS 680-793474/4-A	Lab Control Sample	Total/NA	Water	8270D	793474
LCSD 680-793474/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	793474

GC Semi VOA

Prep Batch: 622931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238921-1	T-09-R	Total/NA	Water	3510C	
680-238921-3	Field Duplicate 4	Total/NA	Water	3510C	
MB 280-622931/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-622931/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-622931/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 623133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238921-1	T-09-R	Total/NA	Water	8141B	622931
680-238921-3	Field Duplicate 4	Total/NA	Water	8141B	622931
MB 280-622931/1-A	Method Blank	Total/NA	Water	8141B	622931
LCS 280-622931/2-A	Lab Control Sample	Total/NA	Water	8141B	622931
LCSD 280-622931/3-A	Lab Control Sample Dup	Total/NA	Water	8141B	622931

Prep Batch: 794009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238921-1	T-09-R	Total/NA	Water	3510C	
680-238921-2	T-09-RF	Total/NA	Water	3510C	
680-238921-3	Field Duplicate 4	Total/NA	Water	3510C	
680-238921-4	Purge Water	Total/NA	Water	3510C	
MB 680-794009/1-A	Method Blank	Total/NA	Water	3510C	
LCS 680-794009/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 680-794009/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 794959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238921-1	T-09-R	Total/NA	Water	8081B/8082A	794009
680-238921-2	T-09-RF	Total/NA	Water	8081B/8082A	794009
680-238921-3	Field Duplicate 4	Total/NA	Water	8081B/8082A	794009
680-238921-4	Purge Water	Total/NA	Water	8081B/8082A	794009
MB 680-794009/1-A	Method Blank	Total/NA	Water	8081B/8082A	794009
LCS 680-794009/2-A	Lab Control Sample	Total/NA	Water	8081B/8082A	794009
LCSD 680-794009/3-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	794009

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Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA

Job ID: 680-238921-1

Client Sample ID: T-09-R

Date Collected: 08/09/23 09:07

Date Received: 08/10/23 10:25

Lab Sample ID: 680-238921-1

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			1037.4 mL	1 mL	793474	08/15/23 17:00	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	793726	08/16/23 20:19	OK	EET SAV
Instrument ID: CMSG										
Total/NA	Prep	3510C			253.4 mL	1 mL	794009	08/18/23 09:25	RR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	794959	08/24/23 19:46	DBM	EET SAV
Instrument ID: CSGJ										
Total/NA	Prep	3510C			1043.3 mL	2 mL	622931	08/14/23 19:32	ANV	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	623133	08/16/23 18:45	SP	EET DEN
Instrument ID: SGC_D2										

Client Sample ID: T-09-RF

Date Collected: 08/09/23 09:07

Date Received: 08/10/23 10:25

Lab Sample ID: 680-238921-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			255 mL	1 mL	794009	08/18/23 09:25	RR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	794959	08/24/23 20:04	DBM	EET SAV
Instrument ID: CSGJ										

Client Sample ID: Field Duplicate 4

Date Collected: 08/09/23 00:00

Date Received: 08/10/23 10:25

Lab Sample ID: 680-238921-3

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			1041.3 mL	1 mL	793474	08/15/23 17:00	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	793726	08/16/23 20:46	OK	EET SAV
Instrument ID: CMSG										
Total/NA	Prep	3510C			258.7 mL	1 mL	794009	08/18/23 09:25	RR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	794959	08/24/23 20:22	DBM	EET SAV
Instrument ID: CSGJ										
Total/NA	Prep	3510C			1052.3 mL	2 mL	622931	08/14/23 19:32	ANV	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	623133	08/16/23 19:24	SP	EET DEN
Instrument ID: SGC_D2										

Client Sample ID: Purge Water

Date Collected: 08/09/23 13:50

Date Received: 08/10/23 10:25

Lab Sample ID: 680-238921-4

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	3510C			259.9 mL	1 mL	794009	08/18/23 09:25	RR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	794959	08/24/23 20:40	DBM	EET SAV
Instrument ID: CSGJ										

Eurofins Savannah

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA

Job ID: 680-238921-1

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA

Job ID: 680-238921-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-24

Laboratory: Eurofins 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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	08-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-23 *
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-23
Oklahoma	State	2018-006	08-31-23
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	08-20-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23 *
Virginia	NELAP	12037	06-14-23 *
Washington	State	C583-19	08-03-23 *
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Savannah

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA

Job ID: 680-238921-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	EET SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	EET DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

[illegible]

Savannah, GA 31404
Phone: 912.354.7050 Fax:

681-Atlanta

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact Company Name: Solata Inc. Address: 702 Cuddeback Ave. City/State/Zip: Augusta, AL 36201-538 Phone: 817 229 1398 Fax: Project Name: Amistosa CERCLA August 2022 Site: Amistosa RBS site PO # 54431065		Project Manager: Bob <u>Not Savin</u> Tell/Fax:		Site Contact: Ben Smith Lab Contact: Bob <u>Ben Smith</u> Date: 08/09/2023 Carrier: FedEx		COC No: 1 of 1 COCs Sampler: NNA, JSL, LCM For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.: Sample Specific Notes:	
Analysis Turnaround Time ☒ CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Filtered Sample (Y/N) ☐ Perform MS / MSD (Y/N) ☐					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	 680-238921 Chain of Custody
T-09-R		08/23/2023	0901	G	W	6	
T-09-RF		8/23/23	0901	G	W	2	
Field Duplicate 4		8/23/23		G	W	6	
Purge water		8/23/23	1350	G	W	2	
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.							
Special Instructions/QC Requirements & Comments:							
Custody Seals Intact: ☐ Yes ☐ No		Custody/Seal No.:		Cooler Temp. (°C): Obs'd:		Therm ID No.:	
Relinquished by: <u>Laurie McDaniel</u>		Company: <u>CWS Environmental</u>		Date/Time: <u>8/23/23</u>		Date/Time: <u>8/10/23 0940</u>	
Relinquished by:		Company:		Date/Time:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Date/Time:	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-238921-1

Login Number: 238921

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	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 $<6\text{mm}$ (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: 680-238921-1

Login Number: 238921

List Number: 2

Creator: Roehsner, Karen P

List Source: Eurofins Denver

List Creation: 08/11/23 09:56 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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?	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.	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

FALL 2023 LABORATORY REPORTS

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QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc.
 Project Name: RCRA Groundwater Monitoring
 Reviewer: Ellen Kainer

Project Manager: Noel Savoie
 Project Number: 680-241901-1
 Validation Date: 12/08/2023

Laboratory: Eurofins Savannah, Denver, Laboratories SDG #: 680-241901-1
 Analytical Method (type and no.): VOCs (8260B), SVOCS (8270D), PCBs (8081B/8082A), Pesticides (8141B)
 Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐
 Sample Names: MW-01B, MW-11A, MW-12A, MW-13A-R, Trip Blank 20231018

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?	☒	☐	☐	<u>Trip Blank 20231018</u>
g) Field parameters collected (note types)?	☒	☐	☐	<u>Temp., pH, Sp. Cond., DO, ORP, turbidity</u>
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 - 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)?	☐	☒	☐	
Were field dup. precision criteria met (note RPD)?	☐	☐	☒	
b) Were lab duplicates analyzed (note original and duplicate samples)?	☒	☐	☐	Multiple LCS/LCSD pairs
c) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	All LCSD RPDs <10%

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?	☐	☐	☒	Insufficient sample volume for MS/MSD (8260D) however, project-specific MS/MSD samples were not submitted with this lab report; therefore, no results are qualified on this basis.
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?	☐	☐	☒	

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Ellen Fair

Signature: _____

Date: 12/08/2023 _____

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc.

Project Manager: Noel Savoie

Project Name: RCRA Groundwater Monitoring

Project Number: 680-241901-1

Reviewer: Jessica Alanis

Validation Date: 12/08/2023

Laboratory: Eurofins TestAmerica Savannah

SDG #: 680-241901-1

Analytical Method (type and no.): Metals (6010C)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____

Sample Names: 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)?	☒	☐	☐	<u>Temp., pH, Sp. Cond., DO, ORP, turbidity</u>
h) Field Calibration within control limits?	☒	☐	☐	_____
i) Notations of unacceptable field conditions/performance 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?	☐	☒	☐	A LCS was not prepared with samples for analysis of metals by method 6010D. Associated results are qualified as estimated UJ in accordance with NFG, 2020.
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?	☐	☐	☒	_____
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?	☐	☐	☒	_____

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
MW-01B	Cobalt	<0.01 mg/L	UJ	A LCS was not prepared.

Signature: Jessica Adams

Date: 12/08/2023

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

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JOB DESCRIPTION

Anniston RCRA

JOB NUMBER

680-241901-1

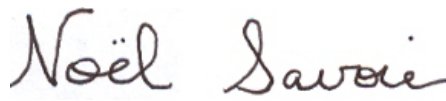
Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Noel Savoie, Project Manager I
Noel.Savoie@et.eurofinsus.com
(850)254-0107

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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
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.
α	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

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Job ID: 680-241901-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-241901-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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 may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/19/2023 9:56 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.8°C and 0.9°C

GC/MS VOA

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-804460.

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 analytes have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: o,o',o''-Triethylphosphorothioate. o,o',o''-Triethylphosphorothioate may have a %D >20% but must be <50%. If >50%, a CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

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.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-241901-1	MW-01B	Water	10/17/23 09:04	10/19/23 09:56
680-241901-2	MW-11A	Water	10/17/23 11:41	10/19/23 09:56
680-241901-3	MW-12A	Water	10/17/23 14:11	10/19/23 09:56
680-241901-4	MW-13A-R	Water	10/18/23 09:42	10/19/23 09:56
680-241901-5	Trip Blank	Water	10/18/23 11:20	10/19/23 09:56

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Client Sample ID: MW-01B

Lab Sample ID: 680-241901-1

No Detections.

Client Sample ID: MW-11A

Lab Sample ID: 680-241901-2

No Detections.

Client Sample ID: MW-12A

Lab Sample ID: 680-241901-3

No Detections.

Client Sample ID: MW-13A-R

Lab Sample ID: 680-241901-4

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 680-241901-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Client Sample ID: MW-01B

Lab Sample ID: 680-241901-1

Date Collected: 10/17/23 09:04

Matrix: Water

Date Received: 10/19/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			10/26/23 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	113		70 - 130					10/26/23 14:07	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 124					10/26/23 14:07	1
Dibromofluoromethane (Surr)	92		70 - 130					10/26/23 14:07	1
4-Bromofluorobenzene (Surr)	103		70 - 130					10/26/23 14:07	1

Method: SW846 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		10/24/23 21:58	11/02/23 02:07	1
o,o',o"-Triethylphosphorothioate	<10		10	1.0	ug/L		10/24/23 21:58	11/02/23 02:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		32 - 113				10/24/23 21:58	11/02/23 02:07	1
2-Fluorophenol	48		26 - 109				10/24/23 21:58	11/02/23 02:07	1
Nitrobenzene-d5	57		32 - 118				10/24/23 21:58	11/02/23 02:07	1
Phenol-d5	40		27 - 110				10/24/23 21:58	11/02/23 02:07	1
Terphenyl-d14	54		10 - 126				10/24/23 21:58	11/02/23 02:07	1
2,4,6-Tribromophenol	75		39 - 124				10/24/23 21:58	11/02/23 02:07	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		10/27/23 13:21	10/30/23 20:25	1
PCB-1221	<0.50		0.50	0.087	ug/L		10/27/23 13:21	10/30/23 20:25	1
PCB-1232	<0.50		0.50	0.087	ug/L		10/27/23 13:21	10/30/23 20:25	1
PCB-1242	<0.50		0.50	0.087	ug/L		10/27/23 13:21	10/30/23 20:25	1
PCB-1248	<0.50		0.50	0.087	ug/L		10/27/23 13:21	10/30/23 20:25	1
PCB-1254	<0.50		0.50	0.087	ug/L		10/27/23 13:21	10/30/23 20:25	1
PCB-1260	<0.50		0.50	0.087	ug/L		10/27/23 13:21	10/30/23 20:25	1
PCB-1268	<0.50		0.50	0.087	ug/L		10/27/23 13:21	10/30/23 20:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		30 - 130				10/27/23 13:21	10/30/23 20:25	1
Tetrachloro-m-xylene	55	p	30 - 130				10/27/23 13:21	10/30/23 20:25	1

Method: SW846 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		10/24/23 16:48	10/28/23 02:53	1
Tetraethylthiopyrophosphate	<1.5		1.5	0.16	ug/L		10/24/23 16:48	10/28/23 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	77		42 - 120				10/24/23 16:48	10/28/23 02:53	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		10/20/23 06:44	10/31/23 11:09	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Client Sample ID: MW-11A

Lab Sample ID: 680-241901-2

Date Collected: 10/17/23 11:41

Matrix: Water

Date Received: 10/19/23 09:56

Method: SW846 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		10/24/23 21:58	11/02/23 02:33	1
o,o',o''-Triethylphosphorothioate	<10		10	0.99	ug/L		10/24/23 21:58	11/02/23 02:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		32 - 113				10/24/23 21:58	11/02/23 02:33	1
2-Fluorophenol	46		26 - 109				10/24/23 21:58	11/02/23 02:33	1
Nitrobenzene-d5	56		32 - 118				10/24/23 21:58	11/02/23 02:33	1
Phenol-d5	43		27 - 110				10/24/23 21:58	11/02/23 02:33	1
Terphenyl-d14	54		10 - 126				10/24/23 21:58	11/02/23 02:33	1
2,4,6-Tribromophenol	78		39 - 124				10/24/23 21:58	11/02/23 02:33	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.077	ug/L		10/29/23 11:10	11/01/23 20:48	1
PCB-1221	<0.50		0.50	0.077	ug/L		10/29/23 11:10	11/01/23 20:48	1
PCB-1232	<0.50		0.50	0.077	ug/L		10/29/23 11:10	11/01/23 20:48	1
PCB-1242	<0.50		0.50	0.077	ug/L		10/29/23 11:10	11/01/23 20:48	1
PCB-1248	<0.50		0.50	0.077	ug/L		10/29/23 11:10	11/01/23 20:48	1
PCB-1254	<0.50		0.50	0.077	ug/L		10/29/23 11:10	11/01/23 20:48	1
PCB-1260	<0.50		0.50	0.077	ug/L		10/29/23 11:10	11/01/23 20:48	1
PCB-1268	<0.50		0.50	0.077	ug/L		10/29/23 11:10	11/01/23 20:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	94	p	30 - 130				10/29/23 11:10	11/01/23 20:48	1
Tetrachloro-m-xylene	86		30 - 130				10/29/23 11:10	11/01/23 20:48	1

Method: SW846 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		10/24/23 16:48	10/28/23 03:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	68		42 - 120				10/24/23 16:48	10/28/23 03:31	1

Client Sample ID: MW-12A

Lab Sample ID: 680-241901-3

Date Collected: 10/17/23 14:11

Matrix: Water

Date Received: 10/19/23 09:56

Method: SW846 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		10/24/23 21:58	11/02/23 02:58	1
o,o',o''-Triethylphosphorothioate	<10		10	0.97	ug/L		10/24/23 21:58	11/02/23 02:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	60		32 - 113				10/24/23 21:58	11/02/23 02:58	1
2-Fluorophenol	49		26 - 109				10/24/23 21:58	11/02/23 02:58	1
Nitrobenzene-d5	59		32 - 118				10/24/23 21:58	11/02/23 02:58	1
Phenol-d5	43		27 - 110				10/24/23 21:58	11/02/23 02:58	1
Terphenyl-d14	57		10 - 126				10/24/23 21:58	11/02/23 02:58	1
2,4,6-Tribromophenol	79		39 - 124				10/24/23 21:58	11/02/23 02:58	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Client Sample ID: MW-12A

Lab Sample ID: 680-241901-3

Date Collected: 10/17/23 14:11

Matrix: Water

Date Received: 10/19/23 09:56

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.078	ug/L		10/29/23 11:10	11/01/23 21:05	1
PCB-1221	<0.50		0.50	0.078	ug/L		10/29/23 11:10	11/01/23 21:05	1
PCB-1232	<0.50		0.50	0.078	ug/L		10/29/23 11:10	11/01/23 21:05	1
PCB-1242	<0.50		0.50	0.078	ug/L		10/29/23 11:10	11/01/23 21:05	1
PCB-1248	<0.50		0.50	0.078	ug/L		10/29/23 11:10	11/01/23 21:05	1
PCB-1254	<0.50		0.50	0.078	ug/L		10/29/23 11:10	11/01/23 21:05	1
PCB-1260	<0.50		0.50	0.078	ug/L		10/29/23 11:10	11/01/23 21:05	1
PCB-1268	<0.50		0.50	0.078	ug/L		10/29/23 11:10	11/01/23 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95	p	30 - 130	10/29/23 11:10	11/01/23 21:05	1
Tetrachloro-m-xylene	99		30 - 130	10/29/23 11:10	11/01/23 21:05	1

Method: SW846 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		10/24/23 16:48	10/28/23 04:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	66		42 - 120	10/24/23 16:48	10/28/23 04:10	1

Client Sample ID: MW-13A-R

Lab Sample ID: 680-241901-4

Date Collected: 10/18/23 09:42

Matrix: Water

Date Received: 10/19/23 09:56

Method: SW846 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		10/24/23 21:58	11/02/23 03:23	1
o,o',o"-Triethylphosphorothioate	<10		10	1.0	ug/L		10/24/23 21:58	11/02/23 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		32 - 113	10/24/23 21:58	11/02/23 03:23	1
2-Fluorophenol	49		26 - 109	10/24/23 21:58	11/02/23 03:23	1
Nitrobenzene-d5	57		32 - 118	10/24/23 21:58	11/02/23 03:23	1
Phenol-d5	47		27 - 110	10/24/23 21:58	11/02/23 03:23	1
Terphenyl-d14	62		10 - 126	10/24/23 21:58	11/02/23 03:23	1
2,4,6-Tribromophenol	81		39 - 124	10/24/23 21:58	11/02/23 03:23	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		10/29/23 11:10	11/01/23 21:23	1
PCB-1221	<0.50		0.50	0.087	ug/L		10/29/23 11:10	11/01/23 21:23	1
PCB-1232	<0.50		0.50	0.087	ug/L		10/29/23 11:10	11/01/23 21:23	1
PCB-1242	<0.50		0.50	0.087	ug/L		10/29/23 11:10	11/01/23 21:23	1
PCB-1248	<0.50		0.50	0.087	ug/L		10/29/23 11:10	11/01/23 21:23	1
PCB-1254	<0.50		0.50	0.087	ug/L		10/29/23 11:10	11/01/23 21:23	1
PCB-1260	<0.50		0.50	0.087	ug/L		10/29/23 11:10	11/01/23 21:23	1
PCB-1268	<0.50		0.50	0.087	ug/L		10/29/23 11:10	11/01/23 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87	p	30 - 130	10/29/23 11:10	11/01/23 21:23	1
Tetrachloro-m-xylene	73		30 - 130	10/29/23 11:10	11/01/23 21:23	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Client Sample ID: MW-13A-R

Lab Sample ID: 680-241901-4

Date Collected: 10/18/23 09:42

Matrix: Water

Date Received: 10/19/23 09:56

Method: SW846 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		10/24/23 16:48	10/28/23 04:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	62		42 - 120	10/24/23 16:48	10/28/23 04:49	1

Client Sample ID: Trip Blank

Lab Sample ID: 680-241901-5

Date Collected: 10/18/23 11:20

Matrix: Water

Date Received: 10/19/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			10/25/23 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		70 - 130		10/25/23 12:58	1
1,2-Dichloroethane-d4 (Surr)	78		60 - 124		10/25/23 12:58	1
Dibromofluoromethane (Surr)	106		70 - 130		10/25/23 12:58	1
4-Bromofluorobenzene (Surr)	113		70 - 130		10/25/23 12:58	1

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (70-130)	DCA (60-124)	DBFM (70-130)	BFB (70-130)
680-241901-1	MW-01B	113	89	92	103
680-241901-5	Trip Blank	105	78	106	113
LCS 680-804460/3	Lab Control Sample	103	102	106	101
LCS 680-804691/4	Lab Control Sample	107	104	105	87
LCSD 680-804460/4	Lab Control Sample Dup	106	105	108	100
LCSD 680-804691/5	Lab Control Sample Dup	109	103	106	89
MB 680-804460/7	Method Blank	106	80	103	106
MB 680-804691/8	Method Blank	112	84	89	102

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (32-113)	2FP (26-109)	NBZ (32-118)	PHL (27-110)	TPHL (10-126)	TBP (39-124)
680-241901-1	MW-01B	59	48	57	40	54	75
680-241901-2	MW-11A	58	46	56	43	54	78
680-241901-3	MW-12A	60	49	59	43	57	79
680-241901-4	MW-13A-R	59	49	57	47	62	81
LCS 680-804367/22-A	Lab Control Sample	61	60	68	61	74	63
LCS 680-804367/25-A	Lab Control Sample	64	52	64	53	65	61
MB 680-804367/21-A	Method Blank	73	58	67	57	78	61

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1 (30-130)	TCX1 (30-130)
680-241901-1	MW-01B	65	55 p
LCS 680-805050/2-A	Lab Control Sample	68	70
LCS 680-805236/5-A	Lab Control Sample	90 p	57
LCSD 680-805050/3-A	Lab Control Sample Dup	75	77
MB 680-805050/1-A	Method Blank	87	80

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

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Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (30-130)	TCX2 (30-130)
680-241901-2	MW-11A	94 p	86
680-241901-3	MW-12A	95 p	99
680-241901-4	MW-13A-R	87 p	73
MB 680-805236/1-A	Method Blank	80 p	59
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)	
Lab Sample ID	Client Sample ID	TPP1 (42-120)	
680-241901-1	MW-01B	77	
680-241901-2	MW-11A	68	
680-241901-3	MW-12A	66	
680-241901-4	MW-13A-R	62	
LCS 280-630898/2-A	Lab Control Sample	79	
MB 280-630898/1-A	Method Blank	62	
Surrogate Legend			
TPP = Triphenylphosphate			

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-804460/7

Matrix: Water

Analysis Batch: 804460

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	0.15	ug/L			10/25/23 11:51	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		70 - 130					10/25/23 11:51	1
1,2-Dichloroethane-d4 (Surr)	80		60 - 124					10/25/23 11:51	1
Dibromofluoromethane (Surr)	103		70 - 130					10/25/23 11:51	1
4-Bromofluorobenzene (Surr)	106		70 - 130					10/25/23 11:51	1

Lab Sample ID: LCS 680-804460/3

Matrix: Water

Analysis Batch: 804460

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	50.4		ug/L		101	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	103		70 - 130				
1,2-Dichloroethane-d4 (Surr)	102		60 - 124				
Dibromofluoromethane (Surr)	106		70 - 130				
4-Bromofluorobenzene (Surr)	101		70 - 130				

Lab Sample ID: LCSD 680-804460/4

Matrix: Water

Analysis Batch: 804460

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	70 - 130	2	30
Surrogate	%Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	106		70 - 130						
1,2-Dichloroethane-d4 (Surr)	105		60 - 124						
Dibromofluoromethane (Surr)	108		70 - 130						
4-Bromofluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: MB 680-804691/8

Matrix: Water

Analysis Batch: 804691

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	0.15	ug/L			10/26/23 10:32	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	112		70 - 130					10/26/23 10:32	1
1,2-Dichloroethane-d4 (Surr)	84		60 - 124					10/26/23 10:32	1
Dibromofluoromethane (Surr)	89		70 - 130					10/26/23 10:32	1
4-Bromofluorobenzene (Surr)	102		70 - 130					10/26/23 10:32	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-804691/4

Matrix: Water

Analysis Batch: 804691

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	46.6		ug/L		93	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	107		70 - 130				
1,2-Dichloroethane-d4 (Surr)	104		60 - 124				
Dibromofluoromethane (Surr)	105		70 - 130				
4-Bromofluorobenzene (Surr)	87		70 - 130				

Lab Sample ID: LCSD 680-804691/5

Matrix: Water

Analysis Batch: 804691

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	46.4		ug/L		93	70 - 130	0	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	109		70 - 130						
1,2-Dichloroethane-d4 (Surr)	103		60 - 124						
Dibromofluoromethane (Surr)	106		70 - 130						
4-Bromofluorobenzene (Surr)	89		70 - 130						

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-804367/21-A

Matrix: Water

Analysis Batch: 806757

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 804367

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		10/24/23 21:58	11/07/23 00:50	1
o,o',o"-Triethylphosphorothioate	<10		10	1.0	ug/L		10/24/23 21:58	11/07/23 00:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
2-Fluorobiphenyl	73		32 - 113						
2-Fluorophenol	58		26 - 109						
Nitrobenzene-d5	67		32 - 118						
Phenol-d5	57		27 - 110						
Terphenyl-d14	78		10 - 126						
2,4,6-Tribromophenol	61		39 - 124						

Lab Sample ID: LCS 680-804367/22-A

Matrix: Water

Analysis Batch: 806757

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 804367

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitrophenol	200	164		ug/L		82	44 - 130

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-804367/22-A

Matrix: Water

Analysis Batch: 806757

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 804367

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	61		32 - 113
2-Fluorophenol	60		26 - 109
Nitrobenzene-d5	68		32 - 118
Phenol-d5	61		27 - 110
Terphenyl-d14	74		10 - 126
2,4,6-Tribromophenol	63		39 - 124

Lab Sample ID: LCS 680-804367/25-A

Matrix: Water

Analysis Batch: 806757

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 804367

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o"-Triethylphosphorothioate	100	82.0		ug/L		82	23 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	64		32 - 113
2-Fluorophenol	52		26 - 109
Nitrobenzene-d5	64		32 - 118
Phenol-d5	53		27 - 110
Terphenyl-d14	65		10 - 126
2,4,6-Tribromophenol	61		39 - 124

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 680-805050/1-A

Matrix: Water

Analysis Batch: 805431

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 805050

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.10	ug/L		10/27/23 13:21	10/30/23 19:37	1
PCB-1221	<0.50		0.50	0.10	ug/L		10/27/23 13:21	10/30/23 19:37	1
PCB-1232	<0.50		0.50	0.10	ug/L		10/27/23 13:21	10/30/23 19:37	1
PCB-1242	<0.50		0.50	0.10	ug/L		10/27/23 13:21	10/30/23 19:37	1
PCB-1248	<0.50		0.50	0.10	ug/L		10/27/23 13:21	10/30/23 19:37	1
PCB-1254	<0.50		0.50	0.10	ug/L		10/27/23 13:21	10/30/23 19:37	1
PCB-1260	<0.50		0.50	0.10	ug/L		10/27/23 13:21	10/30/23 19:37	1
PCB-1268	<0.50		0.50	0.10	ug/L		10/27/23 13:21	10/30/23 19:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		30 - 130	10/27/23 13:21	10/30/23 19:37	1
Tetrachloro-m-xylene	80		30 - 130	10/27/23 13:21	10/30/23 19:37	1

Lab Sample ID: LCS 680-805050/2-A

Matrix: Water

Analysis Batch: 805431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 805050

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	2.40	2.51		ug/L		105	30 - 130

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-805050/2-A

Matrix: Water

Analysis Batch: 805431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 805050

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1260			2.40	2.08		ug/L		87	30 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
DCB Decachlorobiphenyl	68		30 - 130								
Tetrachloro-m-xylene	70		30 - 130								

Lab Sample ID: LCSD 680-805050/3-A

Matrix: Water

Analysis Batch: 805431

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 805050

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
PCB-1016			2.40	2.62		ug/L		109	30 - 130	4	40
PCB-1260			2.40	2.30		ug/L		96	30 - 130	10	40
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
DCB Decachlorobiphenyl	75		30 - 130								
Tetrachloro-m-xylene	77		30 - 130								

Lab Sample ID: MB 680-805236/1-A

Matrix: Water

Analysis Batch: 805760

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 805236

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
PCB-1221	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
PCB-1232	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
PCB-1242	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
PCB-1248	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
PCB-1254	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
PCB-1260	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
PCB-1268	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
DCB Decachlorobiphenyl	80	p	30 - 130				10/29/23 11:10	11/01/23 16:23	1
Tetrachloro-m-xylene	59		30 - 130				10/29/23 11:10	11/01/23 16:23	1

Lab Sample ID: LCS 680-805236/5-A

Matrix: Water

Analysis Batch: 805760

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 805236

			Spike	LCS	LCS	%Rec			
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
PCB-1016			2.40	1.58		ug/L		66	30 - 130
PCB-1260			2.40	1.15	p	ug/L		48	30 - 130
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
DCB Decachlorobiphenyl	90	p	30 - 130						
Tetrachloro-m-xylene	57		30 - 130						

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-630898/1-A

Matrix: Water

Analysis Batch: 631416

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 630898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		10/24/23 16:48	10/28/23 01:35	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.17	ug/L		10/24/23 16:48	10/28/23 01:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	62		42 - 120	10/24/23 16:48	10/28/23 01:35	1

Lab Sample ID: LCS 280-630898/2-A

Matrix: Water

Analysis Batch: 631416

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 630898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	4.00	3.48		ug/L		87	48 - 123
Tetraethyldithiopyrophosphate	4.00	3.20		ug/L		80	40 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate	79		42 - 120

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

GC/MS VOA

Analysis Batch: 804460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241901-5	Trip Blank	Total/NA	Water	8260D	
MB 680-804460/7	Method Blank	Total/NA	Water	8260D	
LCS 680-804460/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-804460/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 804691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241901-1	MW-01B	Total/NA	Water	8260D	
MB 680-804691/8	Method Blank	Total/NA	Water	8260D	
LCS 680-804691/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-804691/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 804367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241901-1	MW-01B	Total/NA	Water	3520C	
680-241901-2	MW-11A	Total/NA	Water	3520C	
680-241901-3	MW-12A	Total/NA	Water	3520C	
680-241901-4	MW-13A-R	Total/NA	Water	3520C	
MB 680-804367/21-A	Method Blank	Total/NA	Water	3520C	
LCS 680-804367/22-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-804367/25-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 805884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241901-1	MW-01B	Total/NA	Water	8270D	804367
680-241901-2	MW-11A	Total/NA	Water	8270D	804367
680-241901-3	MW-12A	Total/NA	Water	8270D	804367
680-241901-4	MW-13A-R	Total/NA	Water	8270D	804367

Analysis Batch: 806757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-804367/21-A	Method Blank	Total/NA	Water	8270D	804367
LCS 680-804367/22-A	Lab Control Sample	Total/NA	Water	8270D	804367
LCS 680-804367/25-A	Lab Control Sample	Total/NA	Water	8270D	804367

GC Semi VOA

Prep Batch: 630898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241901-1	MW-01B	Total/NA	Water	3510C	
680-241901-2	MW-11A	Total/NA	Water	3510C	
680-241901-3	MW-12A	Total/NA	Water	3510C	
680-241901-4	MW-13A-R	Total/NA	Water	3510C	
MB 280-630898/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-630898/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 631416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241901-1	MW-01B	Total/NA	Water	8141B	630898
680-241901-2	MW-11A	Total/NA	Water	8141B	630898

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

GC Semi VOA (Continued)

Analysis Batch: 631416 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241901-3	MW-12A	Total/NA	Water	8141B	630898
680-241901-4	MW-13A-R	Total/NA	Water	8141B	630898
MB 280-630898/1-A	Method Blank	Total/NA	Water	8141B	630898
LCS 280-630898/2-A	Lab Control Sample	Total/NA	Water	8141B	630898

Prep Batch: 805050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241901-1	MW-01B	Total/NA	Water	3510C	
MB 680-805050/1-A	Method Blank	Total/NA	Water	3510C	
LCS 680-805050/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 680-805050/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 805236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241901-2	MW-11A	Total/NA	Water	3510C	
680-241901-3	MW-12A	Total/NA	Water	3510C	
680-241901-4	MW-13A-R	Total/NA	Water	3510C	
MB 680-805236/1-A	Method Blank	Total/NA	Water	3510C	
LCS 680-805236/5-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 805431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241901-1	MW-01B	Total/NA	Water	8082A	805050
MB 680-805050/1-A	Method Blank	Total/NA	Water	8082A	805050
LCS 680-805050/2-A	Lab Control Sample	Total/NA	Water	8082A	805050
LCSD 680-805050/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	805050

Analysis Batch: 805760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241901-2	MW-11A	Total/NA	Water	8082A	805236
680-241901-3	MW-12A	Total/NA	Water	8082A	805236
680-241901-4	MW-13A-R	Total/NA	Water	8082A	805236
MB 680-805236/1-A	Method Blank	Total/NA	Water	8082A	805236
LCS 680-805236/5-A	Lab Control Sample	Total/NA	Water	8082A	805236

Metals

Prep Batch: 803643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241901-1	MW-01B	Total Recoverable	Water	3005A	

Analysis Batch: 805623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241901-1	MW-01B	Total Recoverable	Water	6010D	803643

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Client Sample ID: MW-01B

Lab Sample ID: 680-241901-1

Date Collected: 10/17/23 09:04

Matrix: Water

Date Received: 10/19/23 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	804691	10/26/23 14:07	Y1S	EET SAV
	Instrument ID: CMSC									
Total/NA	Prep	3520C			982.8 mL	1 mL	804367	10/24/23 21:58	WRB	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	805884	11/02/23 02:07	T1C	EET SAV
	Instrument ID: CMSG									
Total/NA	Prep	3510C			288.2 mL	1 mL	805050	10/27/23 13:21	MCH	EET SAV
Total/NA	Analysis	8082A		1	1 mL	1 mL	805431	10/30/23 20:25	UI	EET SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1043.3 mL	2 mL	630898	10/24/23 16:48	EDW	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL	0.25 mL	631416	10/28/23 02:53	SP	EET DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			25 mL	25 mL	803643	10/20/23 06:44	RR	EET SAV
Total Recoverable	Analysis	6010D		1			805623	10/31/23 11:09	BJB	EET SAV
	Instrument ID: ICPH									

Client Sample ID: MW-11A

Lab Sample ID: 680-241901-2

Date Collected: 10/17/23 11:41

Matrix: Water

Date Received: 10/19/23 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1013 mL	1 mL	804367	10/24/23 21:58	WRB	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	805884	11/02/23 02:33	T1C	EET SAV
	Instrument ID: CMSG									
Total/NA	Prep	3510C			324.5 mL	1 mL	805236	10/29/23 11:10	MCH	EET SAV
Total/NA	Analysis	8082A		1	1 mL	1 mL	805760	11/01/23 20:48	UI	EET SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3510C			1046.3 mL	2 mL	630898	10/24/23 16:48	EDW	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL	0.25 mL	631416	10/28/23 03:31	SP	EET DEN
	Instrument ID: SGC_D2									

Client Sample ID: MW-12A

Lab Sample ID: 680-241901-3

Date Collected: 10/17/23 14:11

Matrix: Water

Date Received: 10/19/23 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1029.1 mL	1 mL	804367	10/24/23 21:58	WRB	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	805884	11/02/23 02:58	T1C	EET SAV
	Instrument ID: CMSG									
Total/NA	Prep	3510C			318.9 mL	1 mL	805236	10/29/23 11:10	MCH	EET SAV
Total/NA	Analysis	8082A		1	1 mL	1 mL	805760	11/01/23 21:05	UI	EET SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3510C			1041.1 mL	2 mL	630898	10/24/23 16:48	EDW	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL	0.25 mL	631416	10/28/23 04:10	SP	EET DEN
	Instrument ID: SGC_D2									

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Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Client Sample ID: MW-13A-R

Lab Sample ID: 680-241901-4

Date Collected: 10/18/23 09:42

Matrix: Water

Date Received: 10/19/23 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			997.9 mL	1 mL	804367	10/24/23 21:58	WRB	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	805884	11/02/23 03:23	T1C	EET SAV
Instrument ID: CMSG										
Total/NA	Prep	3510C			286.5 mL	1 mL	805236	10/29/23 11:10	MCH	EET SAV
Total/NA	Analysis	8082A		1	1 mL	1 mL	805760	11/01/23 21:23	UI	EET SAV
Instrument ID: CSGJ										
Total/NA	Prep	3510C			1022.2 mL	2 mL	630898	10/24/23 16:48	EDW	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL	0.25 mL	631416	10/28/23 04:49	SP	EET DEN
Instrument ID: SGC_D2										

Client Sample ID: Trip Blank

Lab Sample ID: 680-241901-5

Date Collected: 10/18/23 11:20

Matrix: Water

Date Received: 10/19/23 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	804460	10/25/23 12:58	Y1S	EET SAV
Instrument ID: CMSP2										

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-24

Laboratory: Eurofins 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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Savannah

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241901-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	EET DEN
6010D	Metals (ICP)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

eurolins Environment Testing

Ver. 06/08/2021
11/9/2023

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-241901-1

Login Number: 241901

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	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 $<6\text{mm}$ (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: 680-241901-1

Login Number: 241901

List Number: 2

Creator: Roehsner, Karen P

List Source: Eurofins Denver

List Creation: 10/20/23 01:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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?	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.	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 $<6\text{mm}$ (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 Name: RCRA Groundwater Monitoring
 Reviewer: Ellen Kainer

Project Manager: Noel Savoie
 Project Number: 680-241967-1
 Validation Date: 12/08/2023

Laboratory: Eurofins Savannah SDG #: 680-241967-1
 Analytical Method (type and no.): VOCs (8260B), SVOCS (8270D), PCBs (8081B/8082A), Pesticides (8141B)
 Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐
 Sample Names: MW-20A, MW-16, MW-15, Duplicate, Trip Blank 20231019

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?	☒	☐	☐	<u>Duplicate (@ MW-20A), MS/MSD (@MW-15), Trip Blank 20231019</u>
g) Field parameters collected (note types)?	☒	☐	☐	<u>Temp., pH, Sp. Cond., DO, ORP, turbidity</u>
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?	☒	☐	☐	<u>Chlorobenzene for method 8260D DF=2 for MW-16 and DF=5 for MW-20A.</u>
g) Were any matrix problems noted?	☒	☐	☐	<u>MW-16 was pale yellow in color.</u>

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)?				<u>Original – MW-20A</u>
	☒	☐	☐	<u>Duplicate – Duplicate</u>
b) Were field dup. precision criteria met (note RPD)?	☐	☒	☐	<u>O,O,O-triethylphosphorothioate met</u>
				<u>precision criteria (Original = 59 ug/L; Duplicate = 69 ug/L; RPD = 16%). Chlorobenzene did not meet precision criteria because</u>
				<u>the RPD was not calculated due to a non-detect result (Original = <1 ug/L; Duplicate = 1.4 ug/L).</u>
c) Were lab duplicates analyzed (note original and duplicate samples)?				<u>One LCSD; Original - LCS 680-805602/6</u>
	☒	☐	☐	<u>Duplicate - LCSD 680-805602/7</u>
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	<u>RPD=8</u>
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?	☒	☐	☐	<u>All RPDs <24%</u>
Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☒	☐	☐	_____
b) Were surrogate recoveries not calculated due to dilutions?	☐	☒	☐	_____

Comments/Notes:

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
MW-20A	Chlorobenzene	<1 ug/L	UJ	RPD between original and duplicate not calculated due to a non-detect result.
Duplicate	Chlorobenzene	1.4 ug/L	J	RPD between original and duplicate not calculated due to a non-detect result.



Signature: _____

Date: 12/08/2023_____

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc.

Project Manager: Noel Savoie

Project Name: RCRA Groundwater Monitoring

Project Number: 680-241967-1

Reviewer: Jessica Alanis

Validation Date: 12/08/2023

Laboratory: Eurofins TestAmerica Savannah

SDG #: 680-241967-1

Analytical Method (type and no.): Metals (6010C)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____

Sample Names: MW-20A, MW-16, MW-15, 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?	☒	☐	☐	_____
g) Field parameters collected (note types)?	☒	☐	☐	<u>Temp., pH, Sp. Cond., DO, ORP, turbidity</u>
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)?	☐	☒	☐	
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?	☒	☐	☐	
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?	☒	☐	☐	

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: 

Date: 12/08/2023

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Generated 11/14/2023 11:28:43 PM

JOB DESCRIPTION

Anniston RCRA

JOB NUMBER

680-241967-1

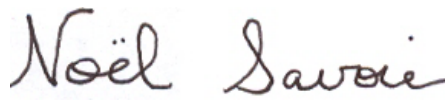
Eurofins Savannah

Job Notes

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Authorization



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Authorized for release by
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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Job ID: 680-241967-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-241967-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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 may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/20/2023 10:32 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.9°C, 1.5°C and 2.4°C

GC/MS VOA

Method 8260D: The following samples were diluted due to the abundance of non-target analytes: MW-20A (680-241967-1) and MW-16 (680-241967-2). 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

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 MW-16 (680-241967-2) in preparation batch 280-630898 were yellow in color.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

Method 8082A: Surrogate recovery for the following sample was outside control limits: MW-16 (680-241967-2). Evidence of matrix interference is present; 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.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-241967-1	MW-20A	Water	10/18/23 13:26	10/20/23 10:32
680-241967-2	MW-16	Water	10/18/23 15:07	10/20/23 10:32
680-241967-3	MW-15	Water	10/18/23 16:27	10/20/23 10:32
680-241967-4	Duplicate	Water	10/18/23 00:00	10/20/23 10:32
680-241967-5	Trip Blank 20231019 518	Water	10/19/23 05:18	10/20/23 10:32

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Client Sample ID: MW-20A

Lab Sample ID: 680-241967-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o,o',o"-Triethylphosphorothioate	59		10	0.97	ug/L	1		8270D	Total/NA

Client Sample ID: MW-16

Lab Sample ID: 680-241967-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Nitrophenol	97		25	1.8	ug/L	1		8270D	Total/NA
o,o',o"-Triethylphosphorothioate	68		10	0.96	ug/L	1		8270D	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 680-241967-3

No Detections.

Client Sample ID: Duplicate

Lab Sample ID: 680-241967-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	1.4		1.0	0.15	ug/L	1		8260D	Total/NA
o,o',o"-Triethylphosphorothioate	69		10	0.98	ug/L	1		8270D	Total/NA

Client Sample ID: Trip Blank 20231019 518

Lab Sample ID: 680-241967-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Client Sample ID: MW-20A

Lab Sample ID: 680-241967-1

Date Collected: 10/18/23 13:26

Matrix: Water

Date Received: 10/20/23 10:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.75	ug/L			11/01/23 00:41	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	111		70 - 130					11/01/23 00:41	5
1,2-Dichloroethane-d4 (Surr)	81		60 - 124					11/01/23 00:41	5
Dibromofluoromethane (Surr)	108		70 - 130					11/01/23 00:41	5
4-Bromofluorobenzene (Surr)	104		70 - 130					11/01/23 00:41	5

Method: SW846 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		10/25/23 18:45	11/04/23 23:48	1
o,o',o''-Triethylphosphorothioate	59		10	0.97	ug/L		10/25/23 18:45	11/04/23 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		32 - 113				10/25/23 18:45	11/04/23 23:48	1
2-Fluorophenol	53		26 - 109				10/25/23 18:45	11/04/23 23:48	1
Nitrobenzene-d5	63		32 - 118				10/25/23 18:45	11/04/23 23:48	1
Phenol-d5	54		27 - 110				10/25/23 18:45	11/04/23 23:48	1
Terphenyl-d14	41		10 - 126				10/25/23 18:45	11/04/23 23:48	1
2,4,6-Tribromophenol	69		39 - 124				10/25/23 18:45	11/04/23 23:48	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 21:41	1
PCB-1221	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 21:41	1
PCB-1232	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 21:41	1
PCB-1242	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 21:41	1
PCB-1248	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 21:41	1
PCB-1254	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 21:41	1
PCB-1260	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 21:41	1
PCB-1268	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 21:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	54	p	30 - 130				10/29/23 11:10	11/01/23 21:41	1
Tetrachloro-m-xylene	60		30 - 130				10/29/23 11:10	11/01/23 21:41	1

Method: SW846 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		10/24/23 16:48	10/28/23 05:28	1
Tetraethylthiopyrophosphate	<1.5		1.5	0.16	ug/L		10/24/23 16:48	10/28/23 05:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	72		42 - 120				10/24/23 16:48	10/28/23 05:28	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		10/24/23 05:43	10/24/23 21:53	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Client Sample ID: MW-16

Lab Sample ID: 680-241967-2

Date Collected: 10/18/23 15:07

Matrix: Water

Date Received: 10/20/23 10:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.30	ug/L			11/01/23 01:24	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	111		70 - 130					11/01/23 01:24	2
1,2-Dichloroethane-d4 (Surr)	80		60 - 124					11/01/23 01:24	2
Dibromofluoromethane (Surr)	111		70 - 130					11/01/23 01:24	2
4-Bromofluorobenzene (Surr)	98		70 - 130					11/01/23 01:24	2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	97		25	1.8	ug/L		10/25/23 18:45	11/05/23 00:14	1
o,o',o''-Triethylphosphorothioate	68		10	0.96	ug/L		10/25/23 18:45	11/05/23 00:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		32 - 113				10/25/23 18:45	11/05/23 00:14	1
2-Fluorophenol	51		26 - 109				10/25/23 18:45	11/05/23 00:14	1
Nitrobenzene-d5	58		32 - 118				10/25/23 18:45	11/05/23 00:14	1
Phenol-d5	54		27 - 110				10/25/23 18:45	11/05/23 00:14	1
Terphenyl-d14	71		10 - 126				10/25/23 18:45	11/05/23 00:14	1
2,4,6-Tribromophenol	70		39 - 124				10/25/23 18:45	11/05/23 00:14	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.082	ug/L		10/29/23 11:10	11/01/23 21:58	1
PCB-1221	<0.50		0.50	0.082	ug/L		10/29/23 11:10	11/01/23 21:58	1
PCB-1232	<0.50		0.50	0.082	ug/L		10/29/23 11:10	11/01/23 21:58	1
PCB-1242	<0.50		0.50	0.082	ug/L		10/29/23 11:10	11/01/23 21:58	1
PCB-1248	<0.50		0.50	0.082	ug/L		10/29/23 11:10	11/01/23 21:58	1
PCB-1254	<0.50		0.50	0.082	ug/L		10/29/23 11:10	11/01/23 21:58	1
PCB-1260	<0.50		0.50	0.082	ug/L		10/29/23 11:10	11/01/23 21:58	1
PCB-1268	<0.50		0.50	0.082	ug/L		10/29/23 11:10	11/01/23 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	38	p	30 - 130				10/29/23 11:10	11/01/23 21:58	1
Tetrachloro-m-xylene	25	S1- p	30 - 130				10/29/23 11:10	11/01/23 21:58	1

Method: SW846 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		10/24/23 16:48	10/28/23 06:07	1
Tetraethylthiopyrophosphate	<1.5		1.5	0.16	ug/L		10/24/23 16:48	10/28/23 06:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	61		42 - 120				10/24/23 16:48	10/28/23 06:07	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		10/24/23 05:43	10/24/23 21:57	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Client Sample ID: MW-15

Date Collected: 10/18/23 16:27

Date Received: 10/20/23 10:32

Lab Sample ID: 680-241967-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			10/31/23 21:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		70 - 130					10/31/23 21:08	1
1,2-Dichloroethane-d4 (Surr)	87		60 - 124					10/31/23 21:08	1
Dibromofluoromethane (Surr)	110		70 - 130					10/31/23 21:08	1
4-Bromofluorobenzene (Surr)	125		70 - 130					10/31/23 21:08	1

Method: SW846 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		10/25/23 18:45	11/05/23 20:24	1
o,o',o"-Triethylphosphorothioate	<10		10	0.96	ug/L		10/25/23 18:45	11/05/23 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		32 - 113				10/25/23 18:45	11/05/23 20:24	1
2-Fluorophenol	54		26 - 109				10/25/23 18:45	11/05/23 20:24	1
Nitrobenzene-d5	66		32 - 118				10/25/23 18:45	11/05/23 20:24	1
Phenol-d5	49		27 - 110				10/25/23 18:45	11/05/23 20:24	1
Terphenyl-d14	52		10 - 126				10/25/23 18:45	11/05/23 20:24	1
2,4,6-Tribromophenol	62		39 - 124				10/25/23 18:45	11/05/23 20:24	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.099	ug/L		10/29/23 11:10	11/01/23 18:44	1
PCB-1221	<0.50		0.50	0.099	ug/L		10/29/23 11:10	11/01/23 18:44	1
PCB-1232	<0.50		0.50	0.099	ug/L		10/29/23 11:10	11/01/23 18:44	1
PCB-1242	<0.50		0.50	0.099	ug/L		10/29/23 11:10	11/01/23 18:44	1
PCB-1248	<0.50		0.50	0.099	ug/L		10/29/23 11:10	11/01/23 18:44	1
PCB-1254	<0.50		0.50	0.099	ug/L		10/29/23 11:10	11/01/23 18:44	1
PCB-1260	<0.50		0.50	0.099	ug/L		10/29/23 11:10	11/01/23 18:44	1
PCB-1268	<0.50		0.50	0.099	ug/L		10/29/23 11:10	11/01/23 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92	p	30 - 130				10/29/23 11:10	11/01/23 18:44	1
Tetrachloro-m-xylene	64		30 - 130				10/29/23 11:10	11/01/23 18:44	1

Method: SW846 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		10/24/23 16:48	10/28/23 06:46	1
Tetraethylthiopyrophosphate	<1.5		1.5	0.16	ug/L		10/24/23 16:48	10/28/23 06:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	69		42 - 120				10/24/23 16:48	10/28/23 06:46	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		10/24/23 05:43	10/24/23 13:59	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Client Sample ID: Duplicate

Lab Sample ID: 680-241967-4

Date Collected: 10/18/23 00:00

Matrix: Water

Date Received: 10/20/23 10:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.4		1.0	0.15	ug/L			10/31/23 21:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		70 - 130					10/31/23 21:27	1
1,2-Dichloroethane-d4 (Surr)	82		60 - 124					10/31/23 21:27	1
Dibromofluoromethane (Surr)	111		70 - 130					10/31/23 21:27	1
4-Bromofluorobenzene (Surr)	97		70 - 130					10/31/23 21:27	1

Method: SW846 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		10/25/23 18:45	11/05/23 00:40	1
o,o',o''-Triethylphosphorothioate	69		10	0.98	ug/L		10/25/23 18:45	11/05/23 00:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		32 - 113				10/25/23 18:45	11/05/23 00:40	1
2-Fluorophenol	60		26 - 109				10/25/23 18:45	11/05/23 00:40	1
Nitrobenzene-d5	67		32 - 118				10/25/23 18:45	11/05/23 00:40	1
Phenol-d5	62		27 - 110				10/25/23 18:45	11/05/23 00:40	1
Terphenyl-d14	46		10 - 126				10/25/23 18:45	11/05/23 00:40	1
2,4,6-Tribromophenol	71		39 - 124				10/25/23 18:45	11/05/23 00:40	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 22:16	1
PCB-1221	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 22:16	1
PCB-1232	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 22:16	1
PCB-1242	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 22:16	1
PCB-1248	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 22:16	1
PCB-1254	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 22:16	1
PCB-1260	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 22:16	1
PCB-1268	<0.50		0.50	0.084	ug/L		10/29/23 11:10	11/01/23 22:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		30 - 130				10/29/23 11:10	11/01/23 22:16	1
Tetrachloro-m-xylene	72		30 - 130				10/29/23 11:10	11/01/23 22:16	1

Method: SW846 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		10/24/23 16:48	10/28/23 08:43	1
Tetraethylthiopyrophosphate	<1.5		1.5	0.16	ug/L		10/24/23 16:48	10/28/23 08:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	66		42 - 120				10/24/23 16:48	10/28/23 08:43	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		10/24/23 05:43	10/24/23 21:55	1

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Client Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Client Sample ID: Trip Blank 20231019 518

Lab Sample ID: 680-241967-5

Date Collected: 10/19/23 05:18

Matrix: Water

Date Received: 10/20/23 10:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			10/31/23 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		70 - 130		10/31/23 20:31	1
1,2-Dichloroethane-d4 (Surr)	85		60 - 124		10/31/23 20:31	1
Dibromofluoromethane (Surr)	108		70 - 130		10/31/23 20:31	1
4-Bromofluorobenzene (Surr)	105		70 - 130		10/31/23 20:31	1

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (70-130)	DCA (60-124)	DBFM (70-130)	BFB (70-130)
680-241967-1	MW-20A	111	81	108	104
680-241967-2	MW-16	111	80	111	98
680-241967-3	MW-15	106	87	110	125
680-241967-3 MS	MW-15	103	97	104	80
680-241967-3 MSD	MW-15	107	98	112	78
680-241967-4	Duplicate	106	82	111	97
680-241967-5	Trip Blank 20231019 518	107	85	108	105
LCS 680-805602/6	Lab Control Sample	111	111	112	91
LCSD 680-805602/7	Lab Control Sample Dup	118	116	122	97
MB 680-805602/10	Method Blank	107	80	110	104

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (32-113)	2FP (26-109)	NBZ (32-118)	PHL (27-110)	TPHL (10-126)	TBP (39-124)
680-241967-1	MW-20A	59	53	63	54	41	69
680-241967-2	MW-16	54	51	58	54	71	70
680-241967-3	MW-15	69	54	66	49	52	62
680-241967-3 MS	MW-15	65	57	70	57	78	70
680-241967-3 MS	MW-15	68	56	68	59	70	66
680-241967-3 MSD	MW-15	64	55	69	57	64	64
680-241967-3 MSD	MW-15	68	56	69	60	72	64
680-241967-4	Duplicate	63	60	67	62	46	71
LCS 680-804627/21-A	Lab Control Sample	69	60	67	62	83	73
LCS 680-804627/24-A	Lab Control Sample	68	58	66	61	79	64
MB 680-804627/20-A	Method Blank	70	67	69	68	87	61

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1 (30-130)	TCX2 (30-130)
680-241967-1	MW-20A	54 p	60
680-241967-3	MW-15	92 p	64

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Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (30-130)	TCX2 (30-130)
680-241967-3 MS	MW-15	91 p	71
680-241967-3 MSD	MW-15	74 p	58
MB 680-805236/1-A	Method Blank	80 p	59
Surrogate Legend			
DCBP = DCB Decachlorobiphenyl			
TCX = Tetrachloro-m-xylene			

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (30-130)	TCX1 (30-130)
680-241967-2	MW-16	38 p	25 S1- p
LCS 680-805236/5-A	Lab Control Sample	90 p	57
Surrogate Legend			
DCBP = DCB Decachlorobiphenyl			
TCX = Tetrachloro-m-xylene			

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (30-130)	TCX2 (30-130)
680-241967-4	Duplicate	97	72
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)	
Lab Sample ID	Client Sample ID	TPP1 (42-120)	
680-241967-1	MW-20A	72	
680-241967-2	MW-16	61	
680-241967-3	MW-15	69	
680-241967-3 MS	MW-15	83	
680-241967-3 MSD	MW-15	83	
680-241967-4	Duplicate	66	
LCS 280-630898/2-A	Lab Control Sample	79	
MB 280-630898/1-A	Method Blank	62	
Surrogate Legend			
TPP = Triphenylphosphate			

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-805602/10

Matrix: Water

Analysis Batch: 805602

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	0.15	ug/L			10/31/23 20:12	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		70 - 130					10/31/23 20:12	1
1,2-Dichloroethane-d4 (Surr)	80		60 - 124					10/31/23 20:12	1
Dibromofluoromethane (Surr)	110		70 - 130					10/31/23 20:12	1
4-Bromofluorobenzene (Surr)	104		70 - 130					10/31/23 20:12	1

Lab Sample ID: LCS 680-805602/6

Matrix: Water

Analysis Batch: 805602

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	48.4		ug/L		97	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	111		70 - 130				
1,2-Dichloroethane-d4 (Surr)	111		60 - 124				
Dibromofluoromethane (Surr)	112		70 - 130				
4-Bromofluorobenzene (Surr)	91		70 - 130				

Lab Sample ID: LCSD 680-805602/7

Matrix: Water

Analysis Batch: 805602

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	52.2		ug/L		104	70 - 130	8	30
Surrogate	%Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	118		70 - 130						
1,2-Dichloroethane-d4 (Surr)	116		60 - 124						
Dibromofluoromethane (Surr)	122		70 - 130						
4-Bromofluorobenzene (Surr)	97		70 - 130						

Lab Sample ID: 680-241967-3 MS

Matrix: Water

Analysis Batch: 805602

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	45.9		ug/L		92	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
Toluene-d8 (Surr)	103		70 - 130						
1,2-Dichloroethane-d4 (Surr)	97		60 - 124						
Dibromofluoromethane (Surr)	104		70 - 130						
4-Bromofluorobenzene (Surr)	80		70 - 130						

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-241967-3 MSD

Matrix: Water

Analysis Batch: 805602

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	49.4		ug/L		99	70 - 130	7	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Toluene-d8 (Surr)	107		70 - 130								
1,2-Dichloroethane-d4 (Surr)	98		60 - 124								
Dibromofluoromethane (Surr)	112		70 - 130								
4-Bromofluorobenzene (Surr)	78		70 - 130								

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-804627/20-A

Matrix: Water

Analysis Batch: 806538

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 804627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		10/25/23 18:45	11/05/23 17:03	1
o,o',o"-Triethylphosphorothioate	<10		10	1.0	ug/L		10/25/23 18:45	11/05/23 17:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		32 - 113				10/25/23 18:45	11/05/23 17:03	1
2-Fluorophenol	67		26 - 109				10/25/23 18:45	11/05/23 17:03	1
Nitrobenzene-d5	69		32 - 118				10/25/23 18:45	11/05/23 17:03	1
Phenol-d5	68		27 - 110				10/25/23 18:45	11/05/23 17:03	1
Terphenyl-d14	87		10 - 126				10/25/23 18:45	11/05/23 17:03	1
2,4,6-Tribromophenol	61		39 - 124				10/25/23 18:45	11/05/23 17:03	1

Lab Sample ID: LCS 680-804627/21-A

Matrix: Water

Analysis Batch: 806538

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 804627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitrophenol	200	170		ug/L		85	44 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl	69		32 - 113				
2-Fluorophenol	60		26 - 109				
Nitrobenzene-d5	67		32 - 118				
Phenol-d5	62		27 - 110				
Terphenyl-d14	83		10 - 126				
2,4,6-Tribromophenol	73		39 - 124				

Lab Sample ID: LCS 680-804627/24-A

Matrix: Water

Analysis Batch: 806538

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 804627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o"-Triethylphosphorothioate	100	76.3		ug/L		76	23 - 130

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-804627/24-A

Matrix: Water

Analysis Batch: 806538

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 804627

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	68		32 - 113
2-Fluorophenol	58		26 - 109
Nitrobenzene-d5	66		32 - 118
Phenol-d5	61		27 - 110
Terphenyl-d14	79		10 - 126
2,4,6-Tribromophenol	64		39 - 124

Lab Sample ID: 680-241967-3 MS

Matrix: Water

Analysis Batch: 806538

Client Sample ID: MW-15

Prep Type: Total/NA

Prep Batch: 804627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitrophenol	<25		206	171		ug/L		83	44 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	65		32 - 113
2-Fluorophenol	57		26 - 109
Nitrobenzene-d5	70		32 - 118
Phenol-d5	57		27 - 110
Terphenyl-d14	78		10 - 126
2,4,6-Tribromophenol	70		39 - 124

Lab Sample ID: 680-241967-3 MS

Matrix: Water

Analysis Batch: 806538

Client Sample ID: MW-15

Prep Type: Total/NA

Prep Batch: 804627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o"-Triethylphosphorothioate	<10		103	82.6		ug/L		80	23 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	68		32 - 113
2-Fluorophenol	56		26 - 109
Nitrobenzene-d5	68		32 - 118
Phenol-d5	59		27 - 110
Terphenyl-d14	70		10 - 126
2,4,6-Tribromophenol	66		39 - 124

Lab Sample ID: 680-241967-3 MSD

Matrix: Water

Analysis Batch: 806538

Client Sample ID: MW-15

Prep Type: Total/NA

Prep Batch: 804627

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol	<25		190	135		ug/L		71	44 - 130	24	50

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	64		32 - 113
2-Fluorophenol	55		26 - 109

Eurofins Savannah

QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-241967-3 MSD

Matrix: Water

Analysis Batch: 806538

Client Sample ID: MW-15

Prep Type: Total/NA

Prep Batch: 804627

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
Nitrobenzene-d5	69		32 - 118
Phenol-d5	57		27 - 110
Terphenyl-d14	64		10 - 126
2,4,6-Tribromophenol	64		39 - 124

Lab Sample ID: 680-241967-3 MSD

Matrix: Water

Analysis Batch: 806538

Client Sample ID: MW-15

Prep Type: Total/NA

Prep Batch: 804627

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o,o',o"-Triethylphosphorothioate	<10		96.2	72.1		ug/L		75	23 - 130	14	50
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
2-Fluorobiphenyl	68		32 - 113								
2-Fluorophenol	56		26 - 109								
Nitrobenzene-d5	69		32 - 118								
Phenol-d5	60		27 - 110								
Terphenyl-d14	72		10 - 126								
2,4,6-Tribromophenol	64		39 - 124								

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 680-805236/1-A

Matrix: Water

Analysis Batch: 805760

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 805236

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
PCB-1221	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
PCB-1232	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
PCB-1242	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
PCB-1248	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
PCB-1254	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
PCB-1260	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
PCB-1268	<0.50		0.50	0.10	ug/L		10/29/23 11:10	11/01/23 16:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	80	p	30 - 130				10/29/23 11:10	11/01/23 16:23	1
Tetrachloro-m-xylene	59		30 - 130				10/29/23 11:10	11/01/23 16:23	1

Lab Sample ID: LCS 680-805236/5-A

Matrix: Water

Analysis Batch: 805760

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 805236

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	2.40	1.58		ug/L		66	30 - 130
PCB-1260	2.40	1.15	p	ug/L		48	30 - 130

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-805236/5-A

Matrix: Water

Analysis Batch: 805760

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 805236

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	90	p	30 - 130
Tetrachloro-m-xylene	57		30 - 130

Lab Sample ID: 680-241967-3 MS

Matrix: Water

Analysis Batch: 805760

Client Sample ID: MW-15

Prep Type: Total/NA

Prep Batch: 805236

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.50		1.99	1.50		ug/L		75	30 - 130
PCB-1260	<0.50		1.99	0.993	p	ug/L		50	30 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	91	p	30 - 130
Tetrachloro-m-xylene	71		30 - 130

Lab Sample ID: 680-241967-3 MSD

Matrix: Water

Analysis Batch: 805760

Client Sample ID: MW-15

Prep Type: Total/NA

Prep Batch: 805236

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
PCB-1016	<0.50		1.97	1.22		ug/L		62	30 - 130	20	40
PCB-1260	<0.50		1.97	0.898	p	ug/L		46	30 - 130	10	40

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	74	p	30 - 130
Tetrachloro-m-xylene	58		30 - 130

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-630898/1-A

Matrix: Water

Analysis Batch: 631416

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 630898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		10/24/23 16:48	10/28/23 01:35	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.17	ug/L		10/24/23 16:48	10/28/23 01:35	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Triphenylphosphate	62		42 - 120	10/24/23 16:48	10/28/23 01:35	1			

Lab Sample ID: LCS 280-630898/2-A

Matrix: Water

Analysis Batch: 631416

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 630898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	4.00	3.48		ug/L		87	48 - 123
Tetraethyldithiopyrophosphate	4.00	3.20		ug/L		80	40 - 120

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate	79		42 - 120

Lab Sample ID: 680-241967-3 MS
Matrix: Water
Analysis Batch: 631416

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 630898

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	<1.0		3.84	3.31		ug/L		86	48 - 123
Tetraethylthiopyrophosphate	<1.5		3.84	3.32		ug/L		87	40 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
Triphenylphosphate	83		42 - 120

Lab Sample ID: 680-241967-3 MSD
Matrix: Water
Analysis Batch: 631416

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 630898

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Parathion	<1.0		3.85	3.28		ug/L		85	48 - 123	1	30
Tetraethylthiopyrophosphate	<1.5		3.85	3.26		ug/L		85	40 - 120	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Triphenylphosphate	83		42 - 120

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-804213/1-A
Matrix: Water
Analysis Batch: 804426

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 804213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		10/24/23 05:43	10/24/23 21:25	1

Lab Sample ID: LCS 680-804213/2-A
Matrix: Water
Analysis Batch: 804426

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 804213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.0500	0.0495		mg/L		99	80 - 120

Lab Sample ID: MB 680-804216/1-A
Matrix: Water
Analysis Batch: 804426

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 804216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		10/24/23 05:43	10/24/23 13:55	1

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QC Sample Results

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-804216/2-A

Matrix: Water

Analysis Batch: 804426

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 804216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.0500	0.0510		mg/L		102	80 - 120

Lab Sample ID: 680-241967-3 MS

Matrix: Water

Analysis Batch: 804426

Client Sample ID: MW-15

Prep Type: Total Recoverable

Prep Batch: 804216

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	<0.010		0.0500	0.0520		mg/L		104	75 - 125

Lab Sample ID: 680-241967-3 MSD

Matrix: Water

Analysis Batch: 804426

Client Sample ID: MW-15

Prep Type: Total Recoverable

Prep Batch: 804216

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt	<0.010		0.0500	0.0524		mg/L		105	75 - 125	1	20

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

GC/MS VOA

Analysis Batch: 805602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241967-1	MW-20A	Total/NA	Water	8260D	
680-241967-2	MW-16	Total/NA	Water	8260D	
680-241967-3	MW-15	Total/NA	Water	8260D	
680-241967-4	Duplicate	Total/NA	Water	8260D	
680-241967-5	Trip Blank 20231019 518	Total/NA	Water	8260D	
MB 680-805602/10	Method Blank	Total/NA	Water	8260D	
LCS 680-805602/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-805602/7	Lab Control Sample Dup	Total/NA	Water	8260D	
680-241967-3 MS	MW-15	Total/NA	Water	8260D	
680-241967-3 MSD	MW-15	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 804627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241967-1	MW-20A	Total/NA	Water	3520C	
680-241967-2	MW-16	Total/NA	Water	3520C	
680-241967-3	MW-15	Total/NA	Water	3520C	
680-241967-4	Duplicate	Total/NA	Water	3520C	
MB 680-804627/20-A	Method Blank	Total/NA	Water	3520C	
LCS 680-804627/21-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-804627/24-A	Lab Control Sample	Total/NA	Water	3520C	
680-241967-3 MS	MW-15	Total/NA	Water	3520C	
680-241967-3 MS	MW-15	Total/NA	Water	3520C	
680-241967-3 MSD	MW-15	Total/NA	Water	3520C	
680-241967-3 MSD	MW-15	Total/NA	Water	3520C	

Analysis Batch: 806480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241967-1	MW-20A	Total/NA	Water	8270D	804627
680-241967-2	MW-16	Total/NA	Water	8270D	804627
680-241967-4	Duplicate	Total/NA	Water	8270D	804627

Analysis Batch: 806538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241967-3	MW-15	Total/NA	Water	8270D	804627
MB 680-804627/20-A	Method Blank	Total/NA	Water	8270D	804627
LCS 680-804627/21-A	Lab Control Sample	Total/NA	Water	8270D	804627
LCS 680-804627/24-A	Lab Control Sample	Total/NA	Water	8270D	804627
680-241967-3 MS	MW-15	Total/NA	Water	8270D	804627
680-241967-3 MS	MW-15	Total/NA	Water	8270D	804627
680-241967-3 MSD	MW-15	Total/NA	Water	8270D	804627
680-241967-3 MSD	MW-15	Total/NA	Water	8270D	804627

GC Semi VOA

Prep Batch: 630898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241967-1	MW-20A	Total/NA	Water	3510C	
680-241967-2	MW-16	Total/NA	Water	3510C	
680-241967-3	MW-15	Total/NA	Water	3510C	
680-241967-4	Duplicate	Total/NA	Water	3510C	

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

GC Semi VOA (Continued)

Prep Batch: 630898 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-630898/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-630898/2-A	Lab Control Sample	Total/NA	Water	3510C	
680-241967-3 MS	MW-15	Total/NA	Water	3510C	
680-241967-3 MSD	MW-15	Total/NA	Water	3510C	

Analysis Batch: 631416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241967-1	MW-20A	Total/NA	Water	8141B	630898
680-241967-2	MW-16	Total/NA	Water	8141B	630898
680-241967-3	MW-15	Total/NA	Water	8141B	630898
680-241967-4	Duplicate	Total/NA	Water	8141B	630898
MB 280-630898/1-A	Method Blank	Total/NA	Water	8141B	630898
LCS 280-630898/2-A	Lab Control Sample	Total/NA	Water	8141B	630898
680-241967-3 MS	MW-15	Total/NA	Water	8141B	630898
680-241967-3 MSD	MW-15	Total/NA	Water	8141B	630898

Prep Batch: 805236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241967-1	MW-20A	Total/NA	Water	3510C	
680-241967-2	MW-16	Total/NA	Water	3510C	
680-241967-3	MW-15	Total/NA	Water	3510C	
680-241967-4	Duplicate	Total/NA	Water	3510C	
MB 680-805236/1-A	Method Blank	Total/NA	Water	3510C	
LCS 680-805236/5-A	Lab Control Sample	Total/NA	Water	3510C	
680-241967-3 MS	MW-15	Total/NA	Water	3510C	
680-241967-3 MSD	MW-15	Total/NA	Water	3510C	

Analysis Batch: 805760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241967-1	MW-20A	Total/NA	Water	8082A	805236
680-241967-2	MW-16	Total/NA	Water	8082A	805236
680-241967-3	MW-15	Total/NA	Water	8082A	805236
680-241967-4	Duplicate	Total/NA	Water	8082A	805236
MB 680-805236/1-A	Method Blank	Total/NA	Water	8082A	805236
LCS 680-805236/5-A	Lab Control Sample	Total/NA	Water	8082A	805236
680-241967-3 MS	MW-15	Total/NA	Water	8082A	805236
680-241967-3 MSD	MW-15	Total/NA	Water	8082A	805236

Metals

Prep Batch: 804213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241967-1	MW-20A	Total Recoverable	Water	3005A	
680-241967-2	MW-16	Total Recoverable	Water	3005A	
680-241967-4	Duplicate	Total Recoverable	Water	3005A	
MB 680-804213/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-804213/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 804216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241967-3	MW-15	Total Recoverable	Water	3005A	

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QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Metals (Continued)

Prep Batch: 804216 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-804216/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-804216/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-241967-3 MS	MW-15	Total Recoverable	Water	3005A	
680-241967-3 MSD	MW-15	Total Recoverable	Water	3005A	

Analysis Batch: 804426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241967-1	MW-20A	Total Recoverable	Water	6010D	804213
680-241967-2	MW-16	Total Recoverable	Water	6010D	804213
680-241967-3	MW-15	Total Recoverable	Water	6010D	804216
680-241967-4	Duplicate	Total Recoverable	Water	6010D	804213
MB 680-804213/1-A	Method Blank	Total Recoverable	Water	6010D	804213
MB 680-804216/1-A	Method Blank	Total Recoverable	Water	6010D	804216
LCS 680-804213/2-A	Lab Control Sample	Total Recoverable	Water	6010D	804213
LCS 680-804216/2-A	Lab Control Sample	Total Recoverable	Water	6010D	804216
680-241967-3 MS	MW-15	Total Recoverable	Water	6010D	804216
680-241967-3 MSD	MW-15	Total Recoverable	Water	6010D	804216

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Client Sample ID: MW-20A

Lab Sample ID: 680-241967-1

Date Collected: 10/18/23 13:26

Matrix: Water

Date Received: 10/20/23 10:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	805602	11/01/23 00:41	Y1S	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			1035.6 mL	1 mL	804627	10/25/23 18:45	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	806480	11/04/23 23:48	T1C	EET SAV
	Instrument ID: CMSK									
Total/NA	Prep	3510C			296 mL	1 mL	805236	10/29/23 11:10	MCH	EET SAV
Total/NA	Analysis	8082A		1	1 mL	1 mL	805760	11/01/23 21:41	UI	EET SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3510C			1032.8 mL	2 mL	630898	10/24/23 16:48	EDW	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL	0.25 mL	631416	10/28/23 05:28	SP	EET DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			25 mL	25 mL	804213	10/24/23 05:43	RR	EET SAV
Total Recoverable	Analysis	6010D		1			804426	10/24/23 21:53	BJB	EET SAV
	Instrument ID: ICPH									

Client Sample ID: MW-16

Lab Sample ID: 680-241967-2

Date Collected: 10/18/23 15:07

Matrix: Water

Date Received: 10/20/23 10:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	805602	11/01/23 01:24	Y1S	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			1038.5 mL	1 mL	804627	10/25/23 18:45	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	806480	11/05/23 00:14	T1C	EET SAV
	Instrument ID: CMSK									
Total/NA	Prep	3510C			303.7 mL	1 mL	805236	10/29/23 11:10	MCH	EET SAV
Total/NA	Analysis	8082A		1	1 mL	1 mL	805760	11/01/23 21:58	UI	EET SAV
	Instrument ID: CSGJ									
Total/NA	Prep	3510C			1047.2 mL	2 mL	630898	10/24/23 16:48	EDW	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL	0.25 mL	631416	10/28/23 06:07	SP	EET DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			25 mL	25 mL	804213	10/24/23 05:43	RR	EET SAV
Total Recoverable	Analysis	6010D		1			804426	10/24/23 21:57	BJB	EET SAV
	Instrument ID: ICPH									

Client Sample ID: MW-15

Lab Sample ID: 680-241967-3

Date Collected: 10/18/23 16:27

Matrix: Water

Date Received: 10/20/23 10:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	805602	10/31/23 21:08	Y1S	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			1043.8 mL	1 mL	804627	10/25/23 18:45	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	806538	11/05/23 20:24	T1C	EET SAV
	Instrument ID: CMST									

Eurofins Savannah

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Client Sample ID: MW-15

Date Collected: 10/18/23 16:27

Date Received: 10/20/23 10:32

Lab Sample ID: 680-241967-3

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	3510C			252.8 mL	1 mL	805236	10/29/23 11:10	MCH	EET SAV
Total/NA	Analysis	8082A		1	1 mL	1 mL	805760	11/01/23 18:44	UI	EET SAV
Instrument ID: CSGJ										
Total/NA	Prep	3510C			1029 mL	2 mL	630898	10/24/23 16:48	EDW	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL	0.25 mL	631416	10/28/23 06:46	SP	EET DEN
Instrument ID: SGC_D2										
Total Recoverable	Prep	3005A			25 mL	25 mL	804216	10/24/23 05:43	RR	EET SAV
Total Recoverable	Analysis	6010D		1			804426	10/24/23 13:59	BJB	EET SAV
Instrument ID: ICPH										

Client Sample ID: Duplicate

Date Collected: 10/18/23 00:00

Date Received: 10/20/23 10:32

Lab Sample ID: 680-241967-4

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	8260D		1	5 mL	5 mL	805602	10/31/23 21:27	Y1S	EET SAV
Instrument ID: CMSP2										
Total/NA	Prep	3520C			1016.6 mL	1 mL	804627	10/25/23 18:45	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	806480	11/05/23 00:40	T1C	EET SAV
Instrument ID: CMSK										
Total/NA	Prep	3510C			299.2 mL	1 mL	805236	10/29/23 11:10	MCH	EET SAV
Total/NA	Analysis	8082A		1	1 mL	1 mL	805760	11/01/23 22:16	UI	EET SAV
Instrument ID: CSGJ										
Total/NA	Prep	3510C			1023.2 mL	2 mL	630898	10/24/23 16:48	EDW	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL	0.25 mL	631416	10/28/23 08:43	SP	EET DEN
Instrument ID: SGC_D2										
Total Recoverable	Prep	3005A			25 mL	25 mL	804213	10/24/23 05:43	RR	EET SAV
Total Recoverable	Analysis	6010D		1			804426	10/24/23 21:55	BJB	EET SAV
Instrument ID: ICPH										

Client Sample ID: Trip Blank 20231019 518

Date Collected: 10/19/23 05:18

Date Received: 10/20/23 10:32

Lab Sample ID: 680-241967-5

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	8260D		1	5 mL	5 mL	805602	10/31/23 20:31	Y1S	EET SAV
Instrument ID: CMSP2										

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-24

Laboratory: Eurofins 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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Savannah

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA

Job ID: 680-241967-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	EET DEN
6010D	Metals (ICP)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

eurofins Environment Testing

680-241967 Chain of Custody

THE

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-241967-1

Login Number: 241967

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	