FINAL

United States Army Corps of Engineers
New England District

2024 Annual Operations, Maintenance, and Monitoring Report

Operable Unit 8 – Area of Contamination 50
Former Fort Devens Army Installation
Devens, Massachusetts

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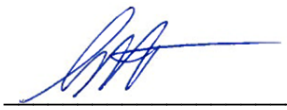
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CERTIFICATION

I hereby certify that the enclosed Report, shown and marked in this submittal, is that proposed to be incorporated with Contract Number W912WJ-19-D-0014. This document was prepared in accordance with the United States Army Corps of Engineers (USACE) Scope of Work and is hereby submitted for Government approval.

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Acronyms and Abbreviations

µg/L	microgram per liter
ABC®	Anoxic BioChem®
ABC® Ole’	Anoxic BioChem® plus oleic acid
ABC® Ole’+	Anoxic BioChem® plus oleic acid plus zero valent iron
AFCEE	Air Force Center for Environmental Excellence
AOC	area of contamination
Arcadis	Arcadis U.S., Inc.
Army	United States Army
BCT	Base Realignment and Closure Cleanup Team
bgs	below ground surface
BRAC	Base Realignment and Closure
cis-1,2-DCE	cis-1,2-dichloroethene
CL	cleanup level
COC	contaminant of concern
CVOC	chlorinated volatile organic compound
DO	dissolved oxygen
DoD	Department of Defense
DOE	Department of Energy
DPT	direct-push technology
DRFTA	Devens Reserve Forces Training Area
ERD	enhanced reductive dechlorination
ESTCP	Environmental Security Technology Certification Program
Fort Devens	Former Fort Devens Army Installation
IWS	in-well stripping
KGS	KOMAN Government Solutions, LLC
LTM	long-term monitoring
LTMMP	Long-Term Monitoring and Maintenance Plan
LUC	land-use control
MAAF	Moore Army Airfield
MassDevelopment	Massachusetts Development and Finance Agency

mg/L	milligram per liter
MiHPT	membrane interface probe-hydraulic profiling tool
MS	matrix spike
MSD	matrix spike duplicate
mV	millivolt
NAVFAC	Naval Facilities Engineering Service Center
O&M	operation and maintenance
ORP	oxidation-reduction potential
PCE	tetrachloroethene
QAPP	Quality Assurance Project Plan
Quality Systems Manual	Department of Defense and Department of Energy Consolidated Quality Systems Manual for Environmental Laboratories, Version 5.4
RAWP	Remedial Action Work Plan
ROD	Record of Decision
S-A JV	SERES-Arcadis 8(a) Joint Venture 2, LLC
site	Area of Contamination 50
Sovereign	Sovereign Consulting Inc.
SU	standard unit
SVE	soil vapor extraction
TCE	trichloroethene
TOC	total organic carbon
USEPA	United States Environmental Protection Agency
USFWS	United States Fish & Wildlife Service
VC	vinyl chloride
VOC	volatile organic compound

1 Introduction

SERES-Arcadis 8(a) Joint Venture 2, LLC (hereafter referred to as the S-A JV) prepared this 2024 Annual Operations, Maintenance, and Monitoring Report for the United States Army Corps of Engineers – New England District under Contract Number W912WJ-19-D-0014. This report details the operation and performance of ongoing remediation activities and groundwater monitoring results at Area of Contamination (AOC) 50 (the site) at the former Fort Devens Army Installation (Fort Devens) located in Devens, Massachusetts. Field activities were performed in accordance with the Long-Term Monitoring and Maintenance Plan (LTMMP; KOMAN Government Solutions, LLC [KGS] 2017) and the Quality Assurance Project Plan (QAPP) for the Annual Long-Term Monitoring and Maintenance Program (S-A JV 2020a). The purpose of this report is to document the operation and maintenance (O&M) activities conducted at the site and to summarize the results of long-term monitoring (LTM) of groundwater conducted by the S-A JV in 2024.

1.1 Site Description and History

The site is located on the northeastern boundary of the former Moore Army Airfield (MAAF), within the former North Post of the former Fort Devens, in the town of Ayer, Massachusetts (Figure 1). Fort Devens was identified for cessation of operations and closure under Public Law 101-510, the Defense Base Realignment and Closure (BRAC) Act of 1990 and was officially closed in March 1996. A portion of the property formerly occupied by Fort Devens was retained by the United States Army (Army) for reserve forces training and was renamed as the Devens Reserve Forces Training Area (DRFTA). Areas not retained as part of the DRFTA were transferred to new owners (the Massachusetts Development and Finance Agency [MassDevelopment] and the United States Fish & Wildlife Service [USFWS]) for reuse and redevelopment. In 2009, the DRFTA was renamed the United States Army Garrison Fort Devens.

All but approximately 13.4 acres of the former MAAF (approximately 246 acres total) were transferred to MassDevelopment for reuse in 1997; the Devens Army Installation retained approximately 9.1 acres of the former airfield for vehicle storage and maintenance and approximately 4.3 acres for remediation activities. Currently, the airfield is closed to aircraft traffic and is used by the Massachusetts State Police for training purposes and vehicle storage. The former MAAF is zoned for Special Use II and Innovation and Technology Business by MassDevelopment. Under the Devens Reuse Plan (Vanasse Hangen Brustlin, Inc. 1994), Special Use II and Innovation and Technology Business includes a broad range of industrial, light industrial, office, and research and development use. MassDevelopment is considering repairs and upgrades for the Massachusetts State Police's use of the airfield, but the plans are still under development.

Sources of groundwater contamination at AOC 50 include two World War II fueling systems, a dry well formerly connected to the parachute shakeout tower, and the former tetrachloroethene (PCE) drum storage area; these sources are collectively referred to as the source area (aka, Area 1, displayed on Figures 2 and 3). The source area comprises less than two acres and surrounds Building 3803 (the former parachute shop), Building 3840 (the former parachute shakeout tower), Building 3824 (a gazebo), and Building 3801 (the former 10th Special Forces airplane parachute simulation building). The groundwater contamination of concern at this site is a chlorinated volatile organic compound (CVOC) plume that formerly extended from the source area (Area 1) approximately 3,000 feet downgradient southwest towards the Nashua River. Although the sources of contamination have been removed or taken out of commission, groundwater underlying the site contains residual concentrations of CVOCs,

including PCE, and the degradation products of PCE: trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC). The site layout with existing monitoring wells is shown on Figures 2 and 3.

The Record of Decision (ROD) for AOC 50 (United States Environmental Protection Agency [USEPA] 2004) identified the groundwater contaminants of concern (COCs) and their interim cleanup levels (CLs), as shown in Table 1, below.

Table 1 AOC 50 Interim Cleanup Levels

Chemical	CL (µg/L)	Chemical	CL (µg/L)
Arsenic	10	Lead	15
Benzene	5	Manganese	1,460
1,2-dichloroethane	5	Methylene chloride	5
1,1-dichloroethene	7	Nitrate	10,000
cis-1,2-DCE	70	PCE	5
1,2-dichloropropane	5	TCE	5
Iron	3,129	VC	2

Note:
µg/L = microgram per liter

Some of the contaminants were designated as COCs because they were present at concentrations above the applicable USEPA maximum contaminant level or state groundwater quality standard (i.e., cis-1,2-DCE, 1,2-dichloropropane, iron, methylene chloride, PCE, TCE, and VC). Benzene was designated as a COC due to past releases, cis-1,2-DCE and nitrate were identified as COCs due to their contribution to risk, and lead was identified as a COC due to its potential to pose ecological risks. In 2006, lead analysis was required as part of the Long-Term Monitoring Plan (Arcadis Geraghty & Miller, Inc. 2006); however, as of 2008, lead monitoring is no longer a requirement (Arcadis 2008). Arsenic was designated as a COC because it may be solubilized (mobilized) by the selected remediation technology (enhanced reductive dechlorination [ERD]), even though it was not predicted to pose significant risks under baseline (i.e., oxic) conditions.

1.2 Site Hydrogeology

An unconfined groundwater aquifer is present within the overburden deposits at the site. Restrictions to vertical groundwater flow, such as silty clay layers, were noted to be present, but not prevalent or continuous, in soil borings drilled in the area during the remedial investigations.

Depth-to-groundwater measurements have been collected from a network of monitoring wells and sampling points routinely since 1997. In 2024, the average depth to groundwater ranged from approximately 10-12 feet below ground surface (bgs) in the upgradient (northern) portion of Area 1 to over 60 feet bgs in Area 5 (Tables 2 and 3). Hydraulic conductivities at the site range from one foot per day to more than 50 feet per day, with seepage velocities ranging from 0.024 to 1.19 feet per day (USEPA 2004). As shown on Figure 4 (Spring 2024) and Figure 5 (Fall 2024), groundwater migrates from the source area southwest below the MAAF, and discharges to the Nashua River.

1.3 Summary of Historical Groundwater Remediation

The selected remedy for the site, as documented in the ROD (USEPA 2004), was Alternative 6: Soil Vapor Extraction (SVE), ERD with solubilized inorganic controls, In-Well Stripping (IWS)/Oxic Bioremediation, Monitoring, Institutional Controls, and Five-Year Site Reviews. In addition, geochemical additives and in-situ chemical oxidation were included as contingencies to address inorganic compounds and CVOCs, respectively, if monitoring data indicate that implementation of these contingencies is warranted.

Portions of the CVOC plume are referred to as Areas 1 through 5 as indicated in Figure 2. These area designations are based on the locations of the initial five ERD injection well transects, beginning with Area 1 in the source area and ending with Area 5 to the southwest, upgradient of the Nashua River, with Areas 2 through 4 spanning the MAAF.

The SVE system was operated from September 2004 until November 2005, when operational monitoring indicated that the recoverable mass of CVOCs had been removed from the vadose zone (KGS 2020). The IWS system was operated in/near Area 5 from September 2004 until March 2013. The IWS system was shut down once it was clear that it was not needed to treat dissolved arsenic or to “polish” the CVOC plume (Sovereign Consulting Inc. [Sovereign] 2013). In 2017, an assessment of the IWS system was performed and revealed corrosion of pumps and blowers. While the IWS system is not needed at this time, it is likely the central processing unit along with various pumps, blowers, and other system components would need to be replaced if there is need to reactivate it in the future. At the Base Realignment and Closure Cleanup Team (BCT) meeting on January 18, 2018, the Army and USEPA agreed that the system could be repaired in the future if needed.

Semi-annual ERD injection events occurred from 2004 to 2014, and annual ERD injection events occurred in 2015, 2017, 2018, and 2019. The first ERD injection event was conducted in October 2004, using molasses as the ERD substrate. HydroGeoLogic, Inc. revised the ERD injection program in November 2008 by changing the substrate from molasses to Anoxic BioChem® (ABC®). Semi-annual injections of ABC® continued through 2014. In 2015, the substrate injection strategy was optimized based on review of the historical data and 2013 and 2014 source area investigation results (Sovereign 2015). Optimization included modification of the substrate used at some locations as well as use of direct push technology (DPT) for injection at some locations to supplement the injections that are performed in permanent wells. The July 2015 injection event used ABC® at some locations, and ABC® plus oleic acid (ABC® Ole’) and ABC® Ole’ plus zero valent iron (ABC® Ole’+), substrate mixtures that persist longer in the aquifer, at some locations. ABC® was injected into existing injection wells in Areas 4 and 5; ABC® Ole’ was injected into existing injection wells in Areas 1, 2, and 3; and ABC® Ole’+ was injected using DPT via Geoprobe® into targeted locations in Area 1. Additional injection events in July 2017, August to September 2018, and July to August 2019 also used ABC® Ole’ and ABC® Ole’+, which were injected throughout the CVOC plume using injection wells and DPT injection points, respectively. The details of these injection events are presented in the 2017, 2018, and 2019 Annual O&M and Monitoring Reports (KGS 2018, 2019, 2020).

When the ROD was filed for the site in 2004 (USEPA 2004), it was estimated that ERD injections would be phased out after approximately 10 to 15 years. While some CL exceedances of PCE remain, the following has been observed as a result of performing ERD at the site since 2004:

- The total area of exceedances of the CL for PCE has decreased in size, from an estimated 15.5 acres in Fall 2004 (Figure 6) to approximately 1.5 acres in Fall 2024 (Figure 7).
- The maximum observed PCE concentration is no longer present - source area well G6M-07-02X had 14,000 micrograms per liter (µg/L) PCE in 2014, and PCE was not detected in Fall 2024. PCE concentrations have been below the CL since Spring 2020 and non-detect since Spring 2021.
- The number of monitoring wells exceeding the CL for PCE has decreased from 35 of 41 wells (85%) in 2004 to 4 of 43 wells (9.3%) in Fall 2024.

2 Long-Term Monitoring Event Methodology

The LTM program at the site was conducted by the S-A JV in Spring 2024 (April) and Fall 2024 (November) in accordance with the most recent update of the LTMMP (KGS 2017).

2.1 Water Level Measurements

Before conducting groundwater sampling, static water level measurements were collected from site wells using an electronic water level meter. Water level measurements were collected from a total of 53 wells during both the Spring and Fall 2024 monitoring events, with measurements recorded within one field day to the extent possible. Before gauging, the monitoring wells were allowed to equilibrate to atmospheric pressure. Water level elevations were calculated by subtracting depth-to-water measurements from the surveyed top-of-casing elevations and used to prepare potentiometric surface maps.

2.2 Groundwater Sampling and Analysis

Groundwater sampling was performed in accordance with the QAPP (S-A JV 2020a) and low-flow procedures documented in USEPA (2017) guidance. Groundwater samples from each well sampled were analyzed for volatile organic compounds (VOCs). In addition, a subset of wells were sampled for geochemical analytes, including total organic carbon (TOC), dissolved gases (methane, ethane, and ethene), alkalinity, nitrate, sulfide, sulfate, and dissolved metals (manganese, iron, and arsenic). Dissolved metals samples were field-filtered using 0.45-micron filters before being containerized for laboratory analysis. The frequency, sampling locations, and analytical parameters for LTM sampling conducted in 2024 are summarized in Table 4. Information on the analytical methods, sample containers, preservatives, and holding times for the parameters sampled are presented in Table 5. Completed groundwater low-flow sampling forms and equipment calibration records for the 2024 groundwater monitoring events are presented in Appendix A.

2.3 Decontamination Procedures and Waste Management

In accordance with the QAPP (S-A JV 2020a), all non-disposable sampling and field equipment (such as bladder pumps and water level meters) were decontaminated between wells by using a non-phosphate detergent solution (Alconox) and rinsing with distilled water. Dedicated bladders were used at each location.

Investigation-derived waste generated during groundwater sampling activities consisted of purge water from wells, equipment decontamination water, and disposable supplies such as nitrile gloves and paper towels. Purge water and equipment decontamination water were discharged back to the ground at the site of generation after sampling was completed, in accordance with the LTMMP (KGS 2017). Used disposable supplies were bagged and disposed of as general solid waste.

3 Groundwater Monitoring Results

Sampling and analysis of chemical and geochemical parameters in groundwater was performed in accordance with the LTMMP (KGS 2017). Monitoring well inspection, water level elevation, and groundwater analytical results for the Spring 2024 (April) and Fall 2024 (November) monitoring events are discussed in the following subsections.

3.1 Monitoring Well Inspection and Maintenance

Before sampling, the following procedures were used to inspect the LTM wells at the site:

- The monitoring well location was identified, and the well identification number was confirmed.
- The wellhead was inspected for signs of damage and any damage was noted.
- The monitoring well gripper seal was removed, and the wellhead was allowed to vent.
- Water levels and total well depth readings were collected and compared to historical measurements.

No inspection or maintenance issues were observed during sampling and well gauging.

3.2 Groundwater Level Measurements

A summary of the groundwater level measurements and the corresponding groundwater elevation data are presented in Tables 2 and 3 for the Spring and Fall 2024 monitoring events, respectively. Groundwater elevation contours for Spring and Fall 2024 are presented on Figures 4 and Figure 5, respectively.

Consistent with previous monitoring events, the observed groundwater flow direction was toward the Nashua River, from northeast to southwest. In general, groundwater elevations were higher in Spring 2024 compared to Fall 2024. The groundwater hydraulic gradient between Area 1 well G6M 07-02X and downgradient well XSA-12-96X (southwest edge of the CVOC plume downgradient of Area 5) was calculated to be 0.0035 feet per foot in Spring 2024 and 0.0031 feet per foot in Fall 2024. In general, the horizontal hydraulic gradient is steeper between Area 1 and Area 3, and the hydraulic gradient decreases downgradient of Area 3. Vertical gradients are indicated in some well pairs. Area 1 well pair G6M-96-22A and G6M-96-22B indicated a downward gradient, in an area of recharge, during the Fall 2024 monitoring event. These wells were not measured in Spring 2024 due to flooded ground around the wells. A slight downward gradient was noted in Area 1 well pair G6M-04-10A and G6M-04-10X in both the Spring and Fall 2024 monitoring events. A slight upward gradient was observed during the Spring 2024 monitoring event in Area 5 well pair G6M-04-06X and G6M-04-07X, with a slight upward gradient observed in this well pair during the Fall 2024 monitoring event.

3.3 Groundwater Chemistry

The Spring and Fall 2024 monitoring events consisted of sampling 9 wells and 44 wells, respectively. Forty-three wells were sampled during the Fall 2024 monitoring event for VOCs, dissolved metals, and/or additional parameters (Table 4); one well (G6M-97-28X) was sampled for dissolved metals only in Fall 2024.

Seven monitoring wells (G6M-02-12X, G6M-03-08X, G6M-13-03X, G6M-04-05X, G6M-04-11X, G6M-04-22X, and G6M-04-31X) are also sampled on a biennial basis during the Fall events and were sampled in Fall 2024 in accordance with the LTMMP (KGS 2017).

The frequency, sampling locations, and analytical parameters for LTM sampling conducted in 2024 are summarized in Table 4. The Spring and Fall 2024 LTM analytical results and field parameters are presented in Tables 6 and 7, respectively. The laboratory analytical reports for the 2024 monitoring events are included as Appendix B. The data validation reports for the 2024 data are presented in Appendix C. Historical analytical results and groundwater field parameters, including the 2024 sampling results, are presented in Appendix D.

3.3.1 Field Parameters

The current well sampling program is detailed in the 2017 LTMMP prepared by KGS. The annual LTM sampling is conducted in the Fall to evaluate the extent of plume as part of the annual monitoring. Fewer wells are sampled in the Spring as this event is used to assess if injections are warranted. The Spring 2024 field parameters were generally consistent with conditions in Fall 2024. Field parameter measurements collected during the Fall 2024 monitoring event are summarized below.

- pH levels in groundwater were within the optimal pH range for ERD bioremediation (pH of 6 to 8 standard units [SU]) (Interstate Technology and Regulatory Council 2008) in all but six locations (Table 7): G6M-04-10X (5.69 SU), G6M-95-19X (5.73 SU), G6M-95-20X (5.93 SU) in Area 1; G6M-13-03X (5.43 SU), G6M-04-02X (5.71 SU) in Area 3; and XSA-12-98X (8.20 SU) in Area 5. While below the optimal range in some wells, ERD is still capable of proceeding at pH values less than 6 SU. The above-range pH value for XSA-12-98X is above the value recorded in Fall 2023 (7.48 SU).
- Dissolved oxygen (DO) concentrations less than 1 milligram per liter (mg/L) indicate anoxic conditions, while negative oxidation-reduction potential (ORP) values indicate generally reducing conditions. In general, anoxic and/or reducing conditions were observed within and downgradient of the in situ reactive zones (areas/zones where substrate injections have occurred in the past) due to organic carbon addition, allowing for ERD of CVOCs. In general, oxic or moderately reducing conditions are present outside of areas of ERD treatment.
- In Area 1, anoxic conditions (i.e., DO less than 1 mg/L) were observed in two of the 14 wells sampled, G6M-04-09X (0.15 mg/L) and G6M-04-022X (0.84 mg/L). Negative ORP, representing reducing conditions, was recorded at 10 of 14 wells sampled, with ORP ranging from -112 to -26.2 millivolts (mV).
- In Area 2, anoxic conditions were observed at all four wells sampled, with DO concentrations ranging from 0.86 to 0.99 mg/L. Negative ORP was recorded at three of the four wells sampled, with ORP ranging from -106 to -138 mV in the three wells.
- In Area 3, anoxic conditions were observed in three of four wells sampled, with DO ranging from 0.69 to 0.84 mg/L. Reducing conditions were observed in three of four wells sampled, with ORP ranging from -89.6 to -21.1 mV in the three wells.
- In Area 4, anoxic conditions were observed in all four wells sampled, with DO ranging from 0.23 to 0.89 mg/L. Negative ORP was recorded at all four wells sampled, with ORP ranging from -135 to -32.5 mV in the four wells.
- In Area 5, anoxic conditions were observed in seven of the 17 wells sampled, with DO ranging from 0.13 to 0.94 mg/L at the seven wells. Negative ORP was recorded at 12 of the 17 wells sampled, with ORP ranging from -144 to -8.90 mV in the 12 wells.

- Adjacent to the Nashua River, the one monitoring well sampled (G6M-04-14X) indicated mildly oxic conditions with a DO value of 1.16 mg/L and an ORP value of 61 mV.

3.3.2 Volatile Organic Compounds

Groundwater samples were collected from 9 wells during the Spring 2024 monitoring event and 43 wells during the Fall 2024 monitoring event for VOC analysis; one additional well (G6M-97-28X) was sampled for dissolved metals only in Fall 2024 for a total of 44 wells sampled during the Fall 2024 monitoring event. PCE, TCE, and VC were the only VOCs detected above the established AOC 50 CLs during the Spring and Fall 2024 monitoring events. Concentrations of these CVOCs in Spring and Fall 2024 are shown in Tables 6 and 7, respectively. Historical concentrations are included in Appendix D and concentration trends at select monitoring wells are provided in Appendix E. PCE results from the Fall 2024 monitoring event and the associated PCE plume are shown on Figure 7 (plan view) and Figure 8 (cross-section view). VOC results from the Spring and Fall 2024 monitoring events are discussed in the following subsections; Fall monitoring results are described in greater detail than Spring results because, per the LTMMP, more wells are sampled in the Fall (43 wells) than in the Spring (9 wells).

3.3.2.1 Spring 2024

Results of the Spring 2024 sampling event indicate that the injections performed in 2019 have resulted in decreases and in many cases complete treatment of CVOCs throughout the area of the former groundwater plume (Figure 6). Historically, locations where PCE was greater than 100 µg/L had been targeted for ERD treatment. As shown in Table 6, all PCE detections are below the historical target level of 100 µg/L. Two of nine sampled locations had PCE detections greater than the CL; the two samples were collected from well G6M-04-02X in Area 3 (17.0 µg/L) and well G6M-13-05X in Area 1 (16 µg/L). TCE was detected above its CL in two of nine sampled locations in Areas 3 and 5, and VC was detected above its CL in three of nine sampled locations in Areas 1, 3, and 5. Table 6 summarizes these detections.

3.3.2.2 Fall 2024

Similar to Spring 2024, the Fall 2024 groundwater monitoring results indicate that the injections performed in 2019 and prior continue to have the intended impact on CVOC concentrations within the targeted areas. Analytical results are included in Table 7 and on Figure 9 (Area 1), Figure 10 (Areas 2, 3, and 4), and Figure 11 (Area 5). Figure 7 shows the results of analysis of groundwater samples for PCE and depicts the associated area where PCE exceeds the CL. Area-specific summaries of locations that exceeded the CL for PCE, TCE, and VC in Fall 2024 are included in Table 8, below.

A summary of results for each CVOC is provided below:

- PCE was detected above the CL of 5 µg/L at four of 43 sampled locations, compared to three of 36 sampled locations during the Fall 2023 monitoring event. Three locations sampled in Fall 2024 with CL exceedances also exceeded the CL in Fall 2023 (wells G6M-04-02X, G6M-07-01X, and G6M-13-05X). The maximum detection of PCE in Fall 2024 was 38 µg/L at well G6M-02-01X (Area 2). PCE did not exceed the CL at well G6M-02-01X in Fall 2023.
- TCE was detected above the CL of 5 µg/L at three of 43 sampled locations, compared to five of 36 sampled locations during the Fall 2023 monitoring event. Five sampled locations exceeded the CL in Fall 2023 (wells

G6M-02-01X, G6M-04-02X, G6M-04-07X, G6M-04-10A, and XSA-12-96X). For the Fall 2024 event, TCE exceeded the CL in wells G6M-02-01X, G6M-04-02X, and G6M-13-05X. The maximum detection of TCE in Fall 2024 was 41 µg/L at well G6M-04-02X (Area 3).

- cis-1,2-DCE was not detected above the CL of 70 µg/L in any of the 43 sampled locations, compared to one of 36 sampled locations during the Fall 2023 monitoring event. The maximum concentration of cis-1,2-DCE detected in Fall 2024 was 38 µg/L at well G6M-04-02X (Area 3).
- VC was detected above the CL of 2 µg/L at four of 43 sampled locations, compared to five of 36 sampled locations during the Fall 2023 monitoring event. Five sampled locations exceeded the CL in Fall 2023 (wells G6M-04-02X, G6M-04-07X, G6M-04-10A, G6M-13-05X, and XSA-12-96X). For the Fall 2024 event, VC exceeded the CL in wells G6M-02-01X, G6M-04-02X, G6M-13-05X, and XSA-12-96X. The maximum detection of VC in Fall 2024 was 42 µg/L at well G6M-02-01X (Area 1).

When compared to historical CVOC concentrations at the site, these results continue to indicate significant improvements to groundwater quality because of ERD remediation performed to date and continued treatment following the most recent injection event in 2019 (five years ago).

Table 8 Area-Specific Summary of Cleanup Level Exceedances

Area	Number of Locations Sampled for VOCs	Number of Locations Exceeding the CL for PCE, TCE, and/or VC	Wells and Compounds that Exceeded the Interim CL
1	14	1	G6M-13-05X: PCE, TCE, VC
2	4	2	G6M-02-01X: PCE, TCE, VC G6M-07-01X: PCE
3	4	1	G6M-04-02X: PCE, TCE, VC
4	4	0	None
5	17	1	XSA-12-96X: VC
Nashua River	1	0	None

3.3.2.3 Concentration Trends

Concentration trend graphs for PCE and associated daughter products (TCE, cis-1,2-DCE, VC, and ethene) are presented in Appendix E for five performance monitoring wells where concentrations exceeded the CLs. Long-term CVOC trends support the conclusion that the July/August 2019 ERD injections continue to be effective. PCE degradation products are detected throughout the extent of the CVOC plume, and concentrations are generally decreasing or stable across the site. CVOC trends for the five performance monitoring wells where concentrations exceed the CLs are described below.

- At monitoring well G6M-13-05X (Area 1), located outside and cross gradient to the area influenced by 2019 injections, PCE concentrations have decreased by approximately two orders of magnitude, from 1,700 µg/L in Fall 2014 to 24 µg/L in Fall 2024. At this well, PCE and TCE concentrations have fluctuated recently, albeit at relatively low levels. From Spring 2021 to Fall 2024, PCE concentrations have ranged from 8.0 to 50 µg/L, while TCE concentrations have ranged from non-detect to 18 µg/L (Appendix E, Figure E-1). The PCE

exceedance shown on Figure 7 at this monitoring well is bounded by monitoring wells with detections below the CL of 5 µg/L and non-detect concentrations.

  - Monitoring well G6M-96-25B, sampled most recently in Fall 2012 (2 µg/L), located approximately 155 feet west of G6M-13-05X;
  - Monitoring well G6M-04-11X, sampled in Fall 2024 (non-detect), located approximately 120 feet southwest of G6M-13-05X; and
  - Monitoring well G6M-04-22X, sampled in Fall 2024 (non-detect), located approximately 150 feet south of G6M-13-05X.

- At monitoring well G6M-02-01X (Area 2), PCE concentrations have decreased by over two orders of magnitude, from 1,900 µg/L in Fall 2007 to non-detect in Fall 2023, but has again been detected in Fall 2024 (38 µg/L). PCE, TCE, and VC concentrations have fluctuated at this location recently (at relatively low levels), with concentrations greater than CLs observed in Fall 2020, Fall 2022, and Fall 2024 (Appendix E, Figure E-2). For the Fall 2024 event, PCE (38 µg/L), TCE (24 µg/L), and VC (42 µg/L) exceeded their respective CLs.
- At monitoring well G6M-07-01X (Area 2), PCE concentrations have declined from 50 µg/L in Fall 2010 to 30 µg/L in Fall 2024, which is an increase from the Fall 2023 event (11 µg/L). TCE has not exceeded the CL since Fall 2009, and cis-1,2-DCE and VC have never exceeded their applicable CLs (Appendix E, Figure E-3).
- At monitoring well G6M-04-02X (Area 3), located within the 2019 DPT injection area, PCE and TCE concentrations have decreased from their historical maximums of 1,900 µg/L (Fall 2004) and 170 µg/L (Fall 2006), respectively, to 20 and 41 µg/L in Fall 2024, respectively. However, PCE and TCE concentrations in Fall 2024 have increased compared to Spring 2020 when PCE and TCE concentrations had fallen below their respective CLs. Daughter products cis-1,2-DCE and VC have been generated by reductive dechlorination (Appendix E, Figure E-4). In Fall 2024, cis-1,2-DCE was detected at a concentration of 38 µg/L which is below the CL of 70 µg/L, and VC was detected at a concentration of 5 µg/L which is above the CL of 2 µg/L.
- At downgradient monitoring well XSA-12-96X (Area 5), PCE concentrations continue to follow a long-term decreasing trend. While injections are not performed adjacent to this well, the effect of treatment upgradient is apparent in the PCE concentration trend at this location, decreasing from 120 µg/L in Fall 2012 to 1.2 J µg/L in Fall 2024. TCE, cis-1,2-DCE, and VC have been declining notably since Fall 2019, with slight decreases in concentrations of TCE and VC noted in the Fall 2024 data when compared to Fall 2023. VC (2.7 µg/L) was the only CVOC detected at a concentration greater than its CL in Fall 2024 (Appendix E, Figure E-5).

3.3.3 Geochemical Analytes

As shown in Table 5, groundwater samples were submitted for analysis of dissolved gases (methane, ethane, and ethene), TOC, alkalinity, nitrate, sulfide, and sulfate for select wells during the Spring and Fall 2024 monitoring events, in accordance with the LTMMP (KGS 2017). These general chemistry parameters were analyzed to document the geochemistry of the aquifer, which can then be used to interpret whether conditions are suitable for reductive dechlorination (or, in the case of ethane and ethene as further evidence of reductive dechlorination). The key geochemical parameters for ERD include the following:

Following depletion of oxygen, alternate terminal electron acceptors are used by microorganisms, including nitrate and sulfate, which reduce to nitrite and sulfide, respectively. Concentrations of these anions are generally low across the site and, therefore, are not discussed further in this report.

- Methane is the result of metabolic reactions involving the reduction of alternate terminal electron acceptor carbon dioxide. Methane concentrations greater than 500 µg/L are indicative of favorable reducing conditions (Air Force Center for Environmental Excellence [AFCEE], Naval Facilities Engineering Service Center [NAVFAC], and Environmental Security Technology Certification Program [ESTCP] 2004). High dissolved methane concentrations are generally indicative of an ongoing reducing zone where bacteria continue to metabolize organic carbon. Dissolved methane can be used to infer proximity to locations that are conducive to promoting ERD.
- The presence of ethene/ethane indicates the microbes required for complete reductive dechlorination are active and present within site groundwater and indicate that chlorinated ethenes are being completely degraded.
- TOC is an indicator of natural organic carbon present at a site during baseline characterization and is an indicator of substrate distribution and persistence during performance monitoring.

A total of 15 monitoring wells were sampled for all general chemistry parameters during the Fall 2024 monitoring event. A summary of the results is provided below, and general chemistry parameter values are presented in Table 7 and on Figures 9 through 11.

3.3.3.1 Dissolved Gases

The presence of methane throughout the CVOC plume at the site indicates that conditions in the aquifer support continued reductive dechlorination of CVOCs. Methane concentrations were above 500 µg/L in 13 of 15 monitoring wells sampled and were highly elevated (defined as above 10,000 µg/L [AFCEE, NAVFAC, and ESTCP 2004]) in 10 of 15 monitoring wells. Methane concentrations were generally highest in wells within or adjacent to the 2019 injection locations (e.g., G6M-03-07X and G6M-97-05B). These elevated methane concentrations indicate conditions are sufficiently reducing to allow for continued reductive dechlorination to occur in site groundwater.

Ethene was detected at 7 of 15 monitoring wells and ethane was detected at 12 of 15 monitoring wells. Ethene and/or ethane were most prevalent within and immediately downgradient of injection areas. The presence of ethene and ethane throughout the site indicate the microbes required for complete reductive dechlorination are active and present within site groundwater and indicate that PCE is being completely degraded to these harmless gases.

3.3.3.2 Organic Carbon Distribution

Concentrations of TOC measured in and downgradient of the ERD injection areas indicate that carbon is available in the aquifer to continue supporting reductive dechlorination of CVOCs at the site. TOC concentrations at wells not influenced by previous ERD injections have historically been below 10 mg/L, and typically below 5 mg/L; therefore, any concentration greater than 10 mg/L is considered elevated above background (S-A JV 2021a).

- Monitoring well G6M-07-02X (Area 1) located within 2019 injection area exhibited highly elevated TOC concentrations (greater than 100 mg/L) in Fall 2022. The Fall 2023 TOC concentration was 95 mg/L and the Fall 2024 concentration decreased to 50 mg/L.
- Three monitoring wells contained moderately elevated TOC concentrations (between 10 and 25 mg/L), including two wells located within or adjacent/downgradient of the 2019 injection areas (G6M-02-08X in

Area 1, G6M-03-07X in Area 3) and one well located in Area 1 to the west of where injections were most recently performed in 2018 (G6M-13-06X).

The organic carbon reagents injected in 2017, 2018, and 2019 are semi-soluble substrates designed to provide both a soluble and readily available carbon substrate (via lactate and/or alcohols) as well as a less soluble portion (vegetable oils and fatty acid esters) that more slowly release organic carbon over a period of years. Monitoring data indicate that the desired slow dissolution of TOC from the injected substrate persists and continues to promote reductive dechlorination of CVOCs in groundwater at the locations discussed above.

3.3.4 Inorganic Metals

Groundwater samples from both 2024 monitoring events were submitted for dissolved metals (arsenic, iron, and manganese) analysis (Table 5). Results for Spring 2024 and Fall 2024 are included in Tables 6 and 7, respectively. Of the three dissolved metals sampled, arsenic is of primary interest. As noted in Section 1.1, arsenic was designated as a COC in the ROD (USEPA 2004) because it may be solubilized (mobilized) by the selected remediation technology (ERD), even though it was not predicted to pose significant risks under baseline conditions. Under the reducing conditions present at the site due to substrate injections, naturally occurring arsenic associated with iron and manganese oxyhydroxide minerals is typically released into solution due to reductive dissolution (USEPA 2007). For example, ferric iron present in the oxides is reduced to ferrous iron, which is more soluble. Similarly, solid manganese minerals (Mn^{4+}) are reduced to more soluble manganese (Mn^{2+}). Arsenic is adsorbed to these minerals in soils at AOC 50. These dissolution processes also release arsenic associated with the minerals, and the iron, manganese, and arsenic can then be detected in dissolved metals analyses. This relationship is observed throughout site treatment areas and was an anticipated by-product of the selected remedial action.

Dissolved arsenic concentrations for the Fall 2024 monitoring event are presented on Figure 12, historical arsenic results are included in Appendix D, and arsenic trends at select wells throughout the plume are provided in Appendix F. Arsenic concentrations in groundwater exceeded the CL of 10 µg/L at 29 of 39 wells sampled for metals in Fall 2024. These wells are located within and downgradient of former injection locations, where geochemical conditions in groundwater are reducing.

The most noticeable increase in arsenic concentrations in recent years is at Area 5 monitoring well G6M-97-05B and downgradient monitoring well XSA-12-97X (Appendix F). These locations are within and downgradient of 2019 injections performed near G6M-97-05B (Figure 12). Monitoring well XSA-12-97X has not been sampled since Spring 2023 due to an obstruction in the well (S-A JV 2024). These increases point to the importance of balancing the desire to perform additional carbon injections to treat CVOCs with the desire to maintain groundwater quality with respect to dissolved metals concentrations. The maximum concentration of dissolved arsenic detected in Fall 2024 was 800 µg/L at monitoring well G6M-04-01X (Area 2). In wells where conditions are primarily oxidizing and/or locations that are outside the areas where ERD has resulted in reducing geochemical conditions in the aquifer, the Fall 2024 dissolved arsenic concentrations were generally non-detect or below the CL of 10 µg/L (Figure 12).

Post ERD injections, which were last performed in 2019, it will take time for the aquifer to return to conditions that will allow for re-attenuation of arsenic. Conditions were generally oxic (DO above 1 mg/L and positive ORP) before injections were initiated at the site and are expected to return to those conditions gradually post ERD injections. The dissolved arsenic and iron concentrations in site groundwater typically correlate with a greater than 100:1 ratio of iron to arsenic, indicating that both metals are being solubilized at the site. These metals re-

precipitate when the groundwater migrates to oxic zones and when the groundwater within the treatment zone returns to oxidizing conditions. Under these conditions, arsenic attenuation occurs as iron oxides precipitate and the arsenic sorbs to and co-precipitates with the particulate iron.

3.4 Quality Assurance/Quality Control

Eurofins Savannah of Savannah, Georgia, was the primary contract laboratory used for the analysis of groundwater samples for the Spring and Fall 2024 monitoring events. This laboratory is compliant with the United States Department of Defense (DoD) and Department of Energy (DOE) Consolidated Quality Systems Manual for Environmental Laboratories, Version 5.4 (Quality Systems Manual; DoD and DOE 2021) under the DoD National Environmental Laboratory Accreditation Program (certification #L2463, expires September 22, 2026) and holds current National Environmental Laboratory Accreditation Program accreditation for all applicable analytical methods.

As part of the 2024 monitoring events, quality assurance/quality control samples were collected to confirm that the data quality objectives were met for the field sampling and laboratory analysis. Field duplicate samples were collected during monitoring events to evaluate field precision at the rate of 10% (one per 10 samples). Matrix spike (MS)/matrix spike duplicate (MSD) sample pairs were also submitted at a rate of 5% (one per 20 samples) to evaluate matrix effects on analytical precision and accuracy. Trip blank samples were submitted with VOC samples to assess the potential for contamination during sampling and shipping.

Data validation was completed on all laboratory deliverables by Laboratory Data Consultants, Inc. of Carlsbad, California. The analytical results from the 2024 monitoring events were reviewed and evaluated for data acceptability in accordance with the USEPA Region 1 Environmental Data Review Program Guidance (USEPA 2018), the QAPP (S-A JV 2020a), and the DoD General Data Validation Guidelines (DoD 2019). The method requirements from the Quality Systems Manual (QSM) Version 5.4 (DoD and DOE 2021) and the USEPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846 (USEPA 2014) were also used as supplemental information.

The data validation reports for the 2024 monitoring events are presented in Appendix C; a summary of quality control exceedances noted during data validation is also included in Appendix C. Appropriate qualifiers, if needed, have been added to the 2024 analytical data in the project database and are included in Tables 6 and 7 and Appendix C. Some values were J-qualified (analyte detected at estimated concentration) or UJ-qualified (analyte not detected, laboratory reporting limit is estimated) due to quality control exceedances. Sample results that were qualified as estimated (UJ/J) are usable with caution. The data from the Spring and Fall 2024 monitoring events are acceptable for use with no data being rejected. A detailed summary is included in Appendix C.

3.5 Laboratory and Field Corrective Actions

There were no major laboratory or field corrective actions required in 2024. Laboratory analyses were performed in general compliance with the precision, accuracy, representativeness, completeness, comparability, and sensitivity requirements listed in the QAPP (S-A JV 2020a). Standard analytical practices and method requirements were followed, and the laboratory was determined to be performing properly. Although some results required qualification, as described in Section 3.4, useable analyte results are reported for 100% of samples from the 2024 monitoring events.

4 Remedial System Update

CVOC trends in monitoring wells sampled in Spring and Fall 2024 indicate that complete dechlorination is occurring across the site, with improvements in groundwater quality observed at most monitoring wells over time (Appendix E). Elevated concentrations of TOC (greater than 10 mg/L) remain in some wells within and adjacent to 2017, 2018, and 2019 injection areas, and elevated methane concentrations (greater than 500 µg/L) in site groundwater indicate that geochemical conditions remain conducive to complete reductive dechlorination of CVOCs. In addition, the presence of ethene and ethane throughout site groundwater indicates that complete reductive dechlorination of CVOCs to harmless gases is occurring. Based on the 2024 data, and as recommended in memoranda to the USEPA and Massachusetts Department of Environmental Protection (S-A JV 2020b, 2021b), previous ERD injections are still effective and PCE concentrations are below the historical target level of 100 µg/L at all wells. The overall remedial system configuration and approach at the site will continue to be evaluated as part of the LTM program.

5 Land-Use Control Monitoring

Land-use controls (LUCs) are a key component of the ROD (USEPA 2004) and Remedial Action Work Plan (RAWP; Arcadis 2005) for AOC 50 and were developed to restrict or prevent potential human exposure to groundwater COCs at the site. The RAWP outlined the implementation plan for LUCs at the site. LUCs are implemented in the north plume, the source area, and the CVOC plume. LUCs in the form of institutional controls are necessary to restrict land and groundwater use at the site to mitigate unacceptable risks to human health until the site is suitable for unrestricted use and unlimited exposure.

The objectives of the LUCs for the site are imposed through legal mechanisms that establish environmental use restrictions and controls to limit activities that would interfere with the operation of the remedy. The legal mechanisms are enforced through incorporation of lease provisions into deeds and permits and through negotiations and agreements with local towns and developers. Any proposed actions that affect the property must consider the following ROD requirements:

- Provide continued access to treatment transects and monitoring wells and access to install additional injection or monitoring wells, if necessary
- Coordinate construction plans with the BCT to facilitate ongoing remediation and future access to plume areas
- No groundwater extraction or injection for any purpose
- Coordinate construction plans for modifications to stormwater systems with the BCT.

The RAWP established the LUC objectives for each area. The objectives for all areas are:

- Restricting potential residential and/or commercial/industrial receptors from ingesting contaminated groundwater
- Restricting groundwater pumping and/or stormwater discharge/recharge to avoid drawing the contaminated groundwater from the source area
- Limiting construction in specified areas over the contaminated groundwater that would interfere with the operation of the remedy and providing access to the site for the monitoring and remediation.

Additional objectives for the source area include:

- Protecting commercial/industrial workers from inhaling vapors released from groundwater used as “open” process water
- Preventing potential construction/occupation of residential dwellings, schools, and childcare facilities and inhalation of vapors released from groundwater to indoor air.

The deed notices provided at the time of property transfer to Tom Eagle of the USFWS, Jeffrey Woodle of Groton Ayer Realty Trust, and Roy Herzig of MassDevelopment inform each owner of their property use restrictions. These restrictions are reinforced annually; copies of the LUC reinforcement letters are included in Appendix G.

The September 2007 Addendum to the Real Property Master Plan included supplemental information on LUCs established under BRAC and Comprehensive Environmental Response, Compensation, and Liability Act programs that are applicable to Area G (Regional Training Site Maintenance), as well as for three other deeded areas located at the DRFTA. A copy of the Real Property Master Plan is included in Appendix G.

Property inspections and interviews with stakeholders are conducted annually to verify compliance with LUC objectives. Annual LUC compliance reports are prepared and include a summary of the interviews and inspections and identify any deficiencies to the site controls. The annual evaluation addresses whether the use restrictions and controls were communicated in the deed(s), whether the owners and state and local agencies were notified of the use restrictions and controls affecting the property, and whether use of the property has conformed to such restrictions and controls. The AOC 50 annual LUC inspection and interview results are included in Appendix G.

Monitoring activities performed for the 2024 reporting period included a review of the documentation and records, on-site inspections, and annual LUC interviews with property owners.

5.1 On-Site Inspections

LUCs were verified during an annual physical inspection of the site. The physical inspection included the checking for the following:

- Any signs of increased exposure potential to the public from groundwater contaminants
- Any evidence that groundwater extraction wells had been installed at the site
- Any evidence of site use changes
- Any site access issues related to monitoring and remediation activities.

The site was inspected by S-A JV, USACE, MassDevelopment, and Calibre personnel on December 4, 2024 (Appendix G). There were no issues encountered related to site access for monitoring and remediation activities during the 2024 physical site inspection.

5.2 LUC Interview

Interviews were conducted in January and February 2025 with each property owner, manager, or other designee familiar with “day-to-day” activities of the property. During the interviews, the S-A JV inquired about the following:

- The owner’s familiarity regarding LUCs imposed upon the property and documentation of these controls
- Sources of water used at the property
- Proposed plans for property sale, future development, construction, or demolition activities at the site.

As summarized in Appendix G, each interviewee (Neil Angus of the Devens Enterprise Commission, Anne-Marie Dowd and Meg Delorier of MassDevelopment, Tom Eagle of the USFWS, and Jeffrey Woodle of Groton Ayer Realty Trust) stated that no change had occurred on the property during 2024.

5.3 LUC Monitoring Summary

Results of the annual compliance monitoring indicate that no breaches to the LUCs were evident and corrective actions were not necessary because there were no changes in site conditions or land use. There are no proposed changes to inspection and reporting frequency at this time.

6 Summary and Conclusions

LTM and O&M activities were successfully performed in 2024 in accordance with the LTMMP (KGS 2017) and QAPP (S-A JV 2020a). LTM activities included semi-annual groundwater sampling, with 9 monitoring wells sampled in Spring 2024 and 44 monitoring wells sampled in Fall 2024 (43 wells for VOCs, dissolved metals, and/or additional parameters and one well for dissolved metals). No additional maintenance activities were performed in 2024. The LUCs were verified through inspection and interviews.

While some CL exceedances of PCE remain, the following has been observed as a result of performing ERD at the site since 2004:

- The total plume area of exceedances of the CL (5 µg/L) for PCE has decreased dramatically in size, from an estimated 15.5 acres in 2004 (Figure 6) to approximately 1.5 acres in 2024 (Figure 7).
- The maximum observed PCE concentration observed at source area well G6M-07-02X has decreased from 14,000 µg/L in 2014 to non-detect since the Spring of 2021.
- The number of wells exceeding the CL for PCE has decreased from 35 out of 41 wells (85%) in 2004 to 4 out of 43 wells (9.3%) in 2024.

The goal of the most recent injections performed in July/August 2019 was to provide an electron donor to support/enhance reductive dechlorination within the source area and within locations where concentrations of PCE were greater than 100 µg/L. As a result of performing these injections, significant reductions in PCE concentrations were observed at several locations from 2019 (estimated 7.74 acres of exceedances of the CL for PCE; KGS 2020) to 2024 (estimated 1.5 acres of exceedances of the CL for PCE). Concentrations continue to decrease to meet the CLs via natural attenuation, following suspension of injections. The generation of advanced daughter products, including ethene/ethane, provides evidence that complete reductive dechlorination and an overall reduction in CVOC contaminant mass continues to occur at the site. In addition, geochemical conditions in these areas (TOC greater than 10 mg/L, methane concentrations greater than 500 µg/L, pH between 6 and 8 SU, DO levels less than 1 mg/L, and negative ORP values) indicate that conditions throughout 2024 remained suitable to support the transformation of CVOCs into harmless by-products.

Arsenic concentrations in groundwater exceeded the CL of 10 µg/L at 29 of 39 wells sampled for metals in Fall 2024. These wells are located within and downgradient of former injection locations, where geochemical conditions in groundwater are reducing and it was anticipated arsenic concentrations would increase due to dissolution into groundwater from native minerals. In wells where conditions are primarily oxidizing and/or not impacted by the ERD injections, the dissolved arsenic concentrations are generally non-detect or below the CL, which indicates the aquifer will eventually return to conditions that will allow for natural re-attenuation of arsenic.

The following activities will be performed in 2025 based on the conclusions drawn from this report:

- Continue LUC monitoring, O&M, and groundwater sampling in accordance with the LTMMP (KGS 2017).
- Continue to monitor metals (in particular, arsenic) concentrations and distribution throughout the CVOC plume. Allow groundwater to naturally return to oxic conditions to facilitate co-precipitation of arsenic with iron oxides.
- Update the LTMMP to optimize the monitoring program.

The overall remedial system configuration and approach at the site will continue to be evaluated as part of the LTM program.

7 References

AFCEE, NAVFAC, and ESTCP. 2004. Principles and Practices of Enhanced Anaerobic Bioremediation of Chlorinated Solvents. August. Available online at: https://frtr.gov/matrix/documents/Enhanced-In-Situ-Reductive-Dechlorinated-for-Groundwater/2004-Principles-and-Practices-of-Enhanced-Anaerobic-Bioremediation-of-Chlorinated-Solvents.pdf.

Arcadis. 2005. Remedial Action Work Plan, AOC 50, Devens, Massachusetts. June.

Arcadis. 2008. Revised Long-Term Monitoring Plan, AOC 50, Devens, Massachusetts. March.

Arcadis/G&M, Inc. 2006. Long-Term Monitoring Plan, AOC 50, Devens, Massachusetts. May.

DoD. 2019. General Data Validation Guidelines. November. Available online at: https://denix.osd.mil/edqw/documents/documents/gen-data-validation-rev1/.

DoD and DOE. 2021. Department of Defense (DoD) and Department of Energy (DOE) Consolidated Quality Systems Manual for Analytical Laboratories, Version 5.4. October. Available online at: https://www.denix.osd.mil/edqw/denix-files/sites/43/2021/10/QSM-Version-5.4-FINAL.pdf.

Interstate Technology and Regulatory Council. 2008. In Situ Bioremediation of Chlorinated Ethene: DNAPL Source Zones. June.

KGS. 2017. Final Long-Term Monitoring and Maintenance Plan (LTMMP) Area of Contamination 50, Former Fort Devens Army Installation, Devens, Massachusetts. November.

KGS. 2018. 2017 Annual Operation and Maintenance (O&M) and Monitoring Report, Area of Contamination 50, Former Fort Devens Army Installation, Devens, Massachusetts. December.

KGS. 2019. 2018 Annual Operation and Maintenance (O&M) and Monitoring Report, Area of Contamination 50, Former Fort Devens Army Installation, Devens, Massachusetts. January.

KGS. 2020. Final 2019 Annual Operation, Maintenance, and Monitoring Report Area of Contamination Former Fort Devens Army Installation, Devens, Massachusetts. August.

S-A JV. 2020a. Quality Assurance Project Plan Annual Long-Term Monitoring and Maintenance Program, Environmental Services at Former Fort Devens Army Installation – BRAC Legacy Sites, Devens, Massachusetts. October.

S-A JV. 2020b. Area of Contamination 50, Spring 2020 Performance Evaluation and Recommendations Memorandum. July 10.

S-A JV. 2021a. Final 2020 Annual Operations, Maintenance, and Monitoring Report, Area of Contamination 50, Former Fort Devens Army Installation, Devens, Massachusetts. August.

S-A JV. 2021b. Area of Contamination 50, Fall 2020 Performance Evaluation and Recommendations Memorandum. February 19.

S-A JV. 2024. Final 2023 Annual Operations, Maintenance, and Monitoring Report, Area of Contamination 50, Former Fort Devens Army Installation, Devens, Massachusetts. July.

Sovereign. 2013. Memorandum Re: IWS System Shutdown. April.

Sovereign. 2015. AOC 50 Source Area MiHPT Investigation Summary Report. June.

USEPA. 2004. Final Record of Decision, AOC 50, Devens, Massachusetts. January 22. Available online at: https://semspub.epa.gov/work/01/201577.pdf.

USEPA. 2007. Monitored Natural Attenuation of Inorganic Contaminants in Ground Water, Volume 2, Assessment for Non-Radionuclides Including Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Nitrate, Perchlorate, and Selenium. October. Available online at: https://nepis.epa.gov/Exe/ZyPDF.cgi/60000N76.PDF?Dockey=60000N76.PDF.

USEPA. 2014. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, Fifth Edition, Update V. Office of Solid Waste and Emergency Response. July. Available online at: www.epa.gpv/hw-sw846/sw-846-compendium.

USEPA. 2017. Region 1. Low Stress (low-flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells. EQASOP-GW4. September 19. Available online at: https://www.epa.gov/sites/production/files/2017-10/documents/eqasop-gw4.pdf.

USEPA. 2018. Region 1 – EPA New England Environmental Data Review Program Guidance. June. Available online at: https://www.epa.gov/sites/production/files/2018-06/documents/r1-dr-program-guidance-june-2018.pdf.

Vanasse Hangen Brustlin, Inc. 1994. Devens Reuse Plan, Prepared for the Boards of Selectmen, Town of Ayer, Town of Harvard, Town of Lancaster, Town of Shirley. November 14.

Tables

Table 2
Groundwater Level Data, Spring 2024
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

SERES Engineering & Services, LLC
ARCADIS a joint venture

Well ID	Area	Date	Well Screen Interval (ft bgs)	MPE (NAVD88)	DTW (ft below MPE)	GW Elevation (NAVD88)
G6M-02-08X	Area 1	4/22/2024	60-70	224.23	9.52	214.71
G6M-04-09X	Area 1	4/22/2024	55-65	242.66	27.86	214.80
G6M-04-11X	Area 1	4/22/2024	35-45	229.47	15.68	213.79
G6M-04-15X	Area 1	4/22/2024	70-80	253.23	38.49	214.74
G6M-04-22X	Area 1	4/22/2024	74-84	255.89	42.21	213.68
G6M-04-31X	Area 1	4/22/2024	68-78	255.91	42.05	213.86
G6M-13-05X	Area 1	4/22/2024	45-55	225.00	10.56	214.44
G6M-13-06X	Area 1	4/22/2024	50-60	224.37	10.00	214.37
G6M-95-19X	Area 1	4/22/2024	48-58	223.89	8.50	215.39
G6M-95-20X	Area 1	4/22/2024	18-23	224.61	18.95	205.66*
G6M-96-22A	Area 1	4/22/2024	40-50	217.59	NM	NM
G6M-96-22B	Area 1	4/22/2024	65.5-70.5	217.56	NM	NM
G6M-04-10A	Area 1/FDSA	4/22/2024	30-40	224.02	8.78	215.24
G6M-04-10X	Area 1/FDSA	4/22/2024	52-62	224.22	9.55	214.67
G6M-04-13X	Area 1/FDSA	4/22/2024	30-40	225.88	10.54	215.34
G6M-07-02X	Area 1/FDSA	4/22/2024	23-28	225.10	9.67	215.43
G6M-02-01X	Area 2	4/22/2024	80-95	262.44	50.52	211.92
G6M-04-01X	Area 2	4/22/2024	82-92	261.15	48.64	212.51
G6M-04-03X	Area 2	4/22/2024	85-95	264.29	53.04	211.25
G6M-07-01X	Area 2	4/22/2024	78-98	262.10	50.02	212.08
G6P-97-05X	Area 2	4/22/2024	33-43	236.72	22.84	213.88
G6M-03-07X	Area 3	4/22/2024	80-90	262.66	52.83	209.83
G6M-04-02X	Area 3	4/22/2024	80-90	266.55	56.15	210.40
G6M-04-04X	Area 3	4/22/2024	94-104	262.66	54.06	208.60
G6M-13-03X	Area 3	4/22/2024	80-90	264.37	54.22	210.15
G6M-02-03X	Area 4	4/22/2024	90-105	263.03	54.70	208.33
G6M-02-04X	Area 4	4/22/2024	90-105	264.92	56.65	208.27
G6M-02-13X	Area 4	4/22/2024	110-120	263.61	55.73	207.88
G6M-13-02X	Area 4	4/22/2024	115-125	263.82	56.01	207.81
G6M-97-28X	Area 4	4/22/2024	100-105	265.69	57.49	208.20
G6M-02-06X	Area 5	4/22/2024	55-65	209.73	4.64	205.09
G6M-02-07X	Area 5	4/22/2024	30-40	210.72	5.70	205.02
G6M-02-11X	Area 5	4/22/2024	125-135	263.93	56.95	206.98
G6M-02-12X	Area 5	4/22/2024	125-135	262.46	55.70	206.76
G6M-03-08X	Area 5	4/22/2024	125-140	258.60	52.03	206.57
G6M-03-09X	Area 5	4/22/2024	125-140	258.89	52.27	206.62
G6M-03-10X	Area 5	4/22/2024	120-135	265.81	59.10	206.71
G6M-04-05X	Area 5	4/22/2024	100-110	258.13	51.55	206.58
G6M-04-06X	Area 5	4/22/2024	95-105	263.97	58.57	205.40
G6M-04-07X	Area 5	4/22/2024	120-130	263.82	58.20	205.62
G6M-13-01X	Area 5	4/22/2024	125-135	266.82	60.04	206.78
G6M-13-04X	Area 5	4/22/2024	125-135	266.31	59.21	207.10
G6M-18-01	Area 5	4/22/2024	116-126	264.24	56.89	207.35
G6M-18-02	Area 5	4/22/2024	123.95-133.95	268.33	62.50	205.83
G6M-97-05B	Area 5	4/22/2024	130-135	268.12	61.77	206.35
MW-3	Area 5	4/22/2024	126-136	265.75	58.55	207.20
MW-7	Area 5	4/22/2024	125-135	264.97	57.62	207.35

Table 2
Groundwater Level Data, Spring 2024
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

Well ID	Area	Date	Well Screen Interval (ft bgs)	MPE (NAVD88)	DTW (ft below MPE)	GW Elevation (NAVD88)
XSA-12-95X	Area 5	4/22/2024	121-131	269.63	63.51	206.12
XSA-12-96X	Area 5	4/22/2024	121-131	269.99	64.90	205.09*
XSA-12-98X	Area 5	4/22/2024	60-70	209.61	4.53	205.08
G6M-04-08X	Nashua River	4/25/2024	NA	209.55	5.61	203.94**
G6M-04-14X	Nashua River	4/25/2024	80-90	210.61	6.61	204.00**

Notes:
1. * Well not used for potentiometric map due to field measurement error.
2. ** Well not used for contouring; well located on the opposite side of the Nashua River.

Acronyms and Abbreviations:
bgs - below ground surface
DTW = depth to water
FDSA = former drum storage area
ft = foot
GW = groundwater
ID = identification
MPE = measuring point elevation
NA = not available
NAVD88 = North American Vertical Datum of 1988
NM = not measured; wells were in standing water and were not gauged

Table 3
Groundwater Level Data, Fall 2024
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

SERES Engineering & Services, LLC
ARCADIS
a joint venture

Well ID	Area	Date	Well Screen Interval (ft bgs)	MPE (NAVD88)	DTW (ft below MPE)	GW Elevation (NAVD88)
G6M-02-08X	Area 1	11/18/2024	60-70	224.23	14.72	209.51
G6M-04-09X	Area 1	11/18/2024	55-65	242.66	33.2	209.46
G6M-04-11X	Area 1	11/18/2024	35-45	229.47	20.74	208.73
G6M-04-15X	Area 1	11/18/2024	70-80	253.23	43.69	209.54
G6M-04-22X	Area 1	11/18/2024	74-84	255.89	47.21	208.68
G6M-04-31X	Area 1	11/18/2024	68-78	255.91	47.10	208.81
G6M-13-05X	Area 1	11/18/2024	45-55	225.00	15.67	209.33
G6M-13-06X	Area 1	11/18/2024	50-60	224.37	15.14	209.23
G6M-95-19X	Area 1	11/18/2024	48-58	223.89	13.84	210.05
G6M-95-20X	Area 1	11/18/2024	18-23	224.61	14.49	210.12
G6M-96-22A	Area 1	11/18/2024	40-50	217.59	6.97	210.62
G6M-96-22B	Area 1	11/18/2024	65.5-70.5	217.56	7.21	210.35
G6M-04-10A	Area 1/FDSA	11/18/2024	30-40	224.02	14.17	209.85
G6M-04-10X	Area 1/FDSA	11/18/2024	52-62	224.22	14.74	209.48
G6M-04-13X	Area 1/FDSA	11/18/2024	30-40	225.88	15.95	209.93
G6M-07-02X	Area 1/FDSA	11/18/2024	23-28	225.10	15.12	209.98
G6M-02-01X	Area 2	11/18/2024	80-95	262.44	55.41	207.03
G6M-04-01X	Area 2	11/18/2024	82-92	261.15	52.71	208.44
G6M-04-03X	Area 2	11/18/2024	85-95	264.29	59.05	205.24
G6M-07-01X	Area 2	11/18/2024	78-98	262.10	55.92	206.18
G6P-97-05X	Area 2	11/18/2024	33-43	236.72	28.81	207.91
G6M-03-07X	Area 3	11/18/2024	80-90	262.66	57.93	204.73
G6M-04-02X	Area 3	11/18/2024	80-90	266.55	61.11	205.44
G6M-04-04X	Area 3	11/18/2024	94-104	262.66	59.16	203.50
G6M-13-03X	Area 3	11/18/2024	80-90	264.37	59.10	205.27
G6M-02-03X	Area 4	11/18/2024	90-105	263.03	59.82	203.21
G6M-02-04X	Area 4	11/18/2024	90-105	264.92	61.71	203.21
G6M-02-13X	Area 4	11/18/2024	110-120	263.61	60.75	202.86
G6M-13-02X	Area 4	11/18/2024	115-125	263.82	61.12	202.70
G6M-97-28X	Area 4	11/18/2024	100-105	265.69	62.57	203.12
G6M-02-06X	Area 5	11/18/2024	55-65	209.73	8.66	201.07
G6M-02-07X	Area 5	11/18/2024	30-40	210.72	9.80	200.92
G6M-02-11X	Area 5	11/18/2024	125-135	263.93	61.88	202.05
G6M-02-12X	Area 5	11/18/2024	125-135	262.46	60.52	201.94
G6M-03-08X	Area 5	11/18/2024	125-140	258.60	56.86	201.74
G6M-03-09X	Area 5	11/18/2024	125-140	258.89	57.08	201.81
G6M-03-10X	Area 5	11/18/2024	120-135	265.81	63.94	201.87
G6M-04-05X	Area 5	11/18/2024	100-110	258.13	56.35	201.78
G6M-04-06X	Area 5	11/18/2024	95-105	263.97	62.87	201.10
G6M-04-07X	Area 5	11/18/2024	120-130	263.82	62.57	201.25
G6M-13-01X	Area 5	11/18/2024	125-135	266.82	64.94	201.88
G6M-13-04X	Area 5	11/18/2024	125-135	266.31	64.19	202.12
G6M-18-01	Area 5	11/18/2024	116-126	264.24	61.88	202.36
G6M-18-02	Area 5	11/18/2024	123.95-133.95	268.33	66.97	201.36
G6M-97-05B	Area 5	11/18/2024	130-135	268.12	66.45	201.67
MW-3	Area 5	11/18/2024	126-136	265.75	63.51	202.24
MW-7	Area 5	11/18/2024	125-135	264.97	62.60	202.37
XSA-12-95X	Area 5	11/18/2024	121-131	269.63	NM	NM
XSA-12-96X	Area 5	11/18/2024	121-131	269.99	69.16	200.83
XSA-12-98X	Area 5	11/18/2024	60-70	209.61	3.30	206.31*

Table 3
Groundwater Level Data, Fall 2024
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

Well ID	Area	Date	Well Screen Interval (ft bgs)	MPE (NAVD88)	DTW (ft below MPE)	GW Elevation (NAVD88)
G6M-04-08X	Nashua River	11/18/2024	NA	209.55	8.37	201.18**
G6M-04-14X	Nashua River	11/18/2024	80-90	210.61	9.52	201.09**

Notes:
* Well not used for potentiometric map due to field measurement error.
** Well not used for contouring; well located on the opposite side of the Nashua River.

Acronyms and Abbreviations:
bgs = below ground surface
DTW = depth to water
FDSA = former drum storage area
ft = foot
GW = groundwater
ID = identification
MPE = measuring point elevation
NA = not available
NAVD88 = North American Vertical Datum of 1988
NM = not measured

Table 4
Monitoring Wells Sampled in 2024
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

Location	Well ID	Sampling Rationale	Well Screen Interval (feet bgs)	Well Screen Elevation (NAVD88)	Sample Parameters	Sampling Frequency	LTMMP Sampling Requirements (if different)
Area 1	G6M-02-08X	Monitor VOC, metal, and geochemistry downgradient of ERD injections.	60-70	162.4-152.4	Full Suite	Annual	--
	G6M-04-09X		55-65	187.66-177.66	VOCs and Metals	Annual	--
	G6M-04-11X		35-45	193.67-183.67	VOCs and Metals	Biennial	--
	G6M-04-15X		70-80	181.65-171.65	VOCs and Metals	Annual	--
	G6M-04-22X		74-84	181.09-171.09	VOCs and Metals	Biennial	--
	G6M-04-31X		68-78	187.11-177.11	VOCs and Metals	Biennial	--
	G6M-13-05X		45-55	177.5-167.5	Full Suite	Semiannual	--
	G6M-13-06X		50-60	171.87-161.87	Full Suite	Annual	--
	G6M-95-19X		48-58	174-164	VOCs	Annual	--
	G6M-95-20X		18-23	204.2-199.2	VOCs and Metals	Annual	--
Area 1 / FDSA	G6M-04-10A	Monitor VOCs, metals, and geochemistry in the source area.	30-40	192.22-182.22	Full Suite	Semiannual	--
	G6M-04-10X		52-62	170.12-160.12	VOCs	Annual	--
	G6M-04-13X		30-40	193.91-183.91	VOCs	Annual	--
	G6M-07-02X		23-28	200.33-195.33	Full Suite	Semiannual	--
Area 2	G6M-02-01X	Monitor VOC and metal trends downgradient of ERD injections.	80-95	183-168	VOCs and Metals	Annual	--
	G6M-04-01X		82-92	179.69-169.69	VOCs and Metals	Annual	--
	G6M-04-03X	Monitor COC trends and metals where COC cleanup levels were achieved.	85-95	179.81-169.81	Full Suite	Annual	VOCs and metals only
	G6M-07-01X	Determine level of VOCs, metals, and geochemistry from a well that was last sampled in 2013.	78-98	184.1-164.1	Full Suite	Annual	Well not included in LTMMP, USEPA requested sampling of this injection well in 2020 and additional samples collected starting in 2021
Area 3	G6M-03-07X	Monitor VOCs, metals, and geochemistry downgradient of ERD injections.	80-90	182.8-172.8	Full Suite	Annual	--
	G6M-04-02X	Monitor VOC, metal, and geochemistry trends within the Area 3 plume.	80-90	183.69-174.18	Full Suite	Semiannual	--
	G6M-04-04X	Monitor VOC and metal trends downgradient of ERD injections.	94-104	158.87-168.87	VOCs and Metals	Annual	--
	G6M-13-03X	Monitor VOCs.	80-90	183.57-173.57	VOCs	Biennial	--
Area 4	G6M-02-04X	Monitor VOC and metal trends downgradient of Area 3.	90-105	172.8-157.8	VOCs and Metals	Annual	--
	G6M-02-13X	Monitor VOC and metal trends within the former portion of the southwest plume in Area 4.	110-120	154-144	VOCs and Metals	Annual	--
	G6M-13-02X	Monitor VOC, metal, and geochemistry trends within the Area 4 portion of the southwest plume.	115-125	148.82-138.82	Full Suite	Semiannual	--
	G6M-97-28X	Monitor metals and geochemistry trends within the Area 4 portion of the southwest plume.	100-105	164.89-159.89	Metals	Annual	--

Table 4
Monitoring Wells Sampled in 2024
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

Location	Well ID	Sampling Rationale	Well Screen Interval (feet bgs)	Well Screen Elevation (NAVD88)	Sample Parameters	Sampling Frequency	LTMMP Sampling Requirements (if different)
Area 5	G6M-02-06X	Monitor VOCs and metals along east bank of the Nashua River.	55-65	153.5-143.5	VOCs and Metals	Annual	--
	G6M-02-07X	Monitor VOCs and metals along east bank of the Nashua River.	30-40	178.7-168.7	VOCs and Metals	Annual	--
	G6M-02-11X	Monitor VOC and metal trends within the former portion of the southwest plume in Area 5.	125-135	139.2-129.2	VOCs and Metals	Annual	--
	G6M-02-12X	Monitor VOC and metal trends within the former portion of the southwest plume in Area 5.	125-135	136.66-126.66	VOCs and Metals	Biennial	--
	G6M-03-08X	Monitor VOC and metal trends within the former portion of the southwest plume in Area 5.	125-140	132.80-117.80	VOCs and Metals	Biennial	--
	G6M-03-10X	Monitor VOC and metal trends within the former portion of the southwest plume in Area 5.	120-135	143.4-128.4	VOCs and Metals	Annual	--
	G6M-04-05X	Monitor VOC trends within the former portion of the southwest plume in Area 5.	100-110	157.33-147.33	VOCs	Biennial	--
	G6M-04-06X	Monitor VOCs and metals in the shallow overburden within the southwestern portion of the plume in Area 5.	95-105	167.27-157.27	VOCs and Metals	Annual	--
	G6M-04-07X	Monitor VOCs and metals with in Area 5.	120-130	141.88-131.88	VOCs and Metals	Semiannual	--
	G6M-13-01X	Monitor VOCs, metals, and geochemistry along the western border of the plume in Area 5.	125-135	139.35-129.35	Full Suite	Semiannual	--
	G6M-13-04X	Monitor VOCs and metals downgradient and adjacent to ERD injection wells.	125-135	138.81-128.81	VOCs and Metals	Annual	--
	G6M-97-05B	Monitor VOCs, metals, and geochemistry within the Area 5 plume.	130-135	135.94-130.94	Full Suite	Semiannual	--
	MW-3	Monitor VOC and metal trends within the former portion of the southwest plume in Area 5.	126-136	137.9-127.9	VOCs and Metals	Annual	--
	MW-7	Monitor VOC and metal trends within the former portion of the southwest plume in Area 5.	125-135	138.9-128.9	VOCs and Metals	Annual	--
	XSA-12-95X	Monitor VOCs and metals along the downgradient portion of the plume before the Nashua River at Area 5.	121-131	146.63-136.63	VOCs and Metals	Annual	--

Table 4
Monitoring Wells Sampled in 2024
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

Location	Well ID	Sampling Rationale	Well Screen Interval (feet bgs)	Well Screen Elevation (NAVD88)	Sample Parameters	Sampling Frequency	LTMMP Sampling Requirements (if different)
Area 5 (Continued)	XSA-12-96X	Monitor VOCs and metals along the downgradient portion of the plume before the Nashua River at Area 5.	121-131	147.02-137.02	Full Suite	Semiannual	VOCs and metals only
	XSA-12-98X	Monitor VOCs and metals along the downgradient portion of the plume before the Nashua River at Area 5.	60-70	146.64-136.64	VOCs and Metals	Annual	--
Nashua River	G6M-04-14X	Monitor VOCs and metals along the west bank of the Nashua River.	80-90	130.76-120.76	VOCs and Metals	Annual	--

Notes:
1. Semiannual locations are sampled in the spring and fall; annual and biennial locations are sampled in the fall only.
2. "Metals" analyses include dissolved arsenic, iron, and manganese.
3. "Full Suite" analyses include VOCs, metals, nitrate/nitrite, sulfate, sulfide, alkalinity (fall only), methane, ethane, ethene, and total organic carbon.
4. Field parameters include pH, dissolved oxygen, oxidation-reduction potential, specific conductivity, turbidity, and temperature.

Acronyms and Abbreviations:
bgs = below ground surface
COC = contaminant of concern
ERD = enhanced reductive dechlorination
FDSA = former drum storage area
ID = identification
LTMMP = Long-Term Maintenance and Monitoring Plan (KOMAN Government Solutions, LLC 2017)
NAVD88 = North American Vertical Datum of 1988
TOC = total organic carbon
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

Reference:
KOMAN Government Solutions, LLC. 2017. Final Long-Term Monitoring and Maintenance Plan (LTMMP) Area of Contamination 50, Former Fort Devens Army Installation, Devens, Massachusetts. November.

Table 5
Sample Preparation and Analysis Methods, Containers, Holding Times, and Preservation
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

Parameter	Analytical Method	Analytes	Sample Container	Preservative	Holding Time
Organic					
Volatile Organic Compounds	SW8260B	Target Compound List	3 x 40-mL VOA vials with Teflon® septa screw caps; no headspace	HCl to pH < 2; 4° ± 2°C	14 Days
Dissolved Gases	RSK-175	Methane, Ethane, and Ethene	3 x 40-mL VOA vials	HCl to pH < 2; 4°± 2°C	14 Days
Metals					
Dissolved Metals (field filtered)	SW6010B/ 6020A (As)	Arsenic, Iron, and Manganese	1 x 250-mL polyethylene	HNO_3 to pH < 2; 4° ± 2°C	180 Days
Wet Chemistry					
Alkalinity	SM2320B	None	1 x 250-mL polyethylene	Store at 4° ± 2°C	14 Days
Nitrate/Nitrite	E353.2	Nitrate/Nitrite (as Nitrogen)	1 x 500-mL amber glass	H_2SO_4 to pH < 2; 4° ± 2°C	28 Days
Sulfate	SW9056A	Sulfate	1 x 500-mL polyethylene	Store at 4° ± 2°C	28 Days
Sulfide	SW9034	Sulfide	1 x 250-mL polyethylene	Zinc acetate + NaOH to pH > 9, 4 °C	7 Days
Total Organic Carbon	SW9060A	TOC	1 x 250-mL amber glass	H_2SO_4 to pH < 2; 4° ± 2°C	28 Days

Acronyms and Abbreviations:
°C = degree Celsius
H_2SO_4 = sulfuric acid
HCl = hydrochloric acid
HNO_3 = nitric acid
mL = milliliter
NaOH = sodium hydroxide
TOC = total organic carbon
VOA = volatile organic analysis

Table 6
Groundwater Analytical Results, Spring 2024
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Area	Area 1	Area 1/FDSA			Area 3	Area 4	Area 5			
		Location	G6M-13-05X	G6M-04-10A	G6M-07-02X	G6M-07-02X	G6M-04-02X	G6M-13-02X	G6M-04-07X	G6M-13-01X	G6M-97-05B	XSA-12-96X
		Sample ID	G6M-13-05X-SPR24-LTM	G6M-04-10A-SPR24-LTM	G6M-07-02X-SPR24-LTM	AOC50-DUP01-SPR24-LTM	G6M-04-02X-SPR24-LTM	G6M-13-02X-SPR24-LTM	G6M-04-07X-SPR24-LTM	G6M-13-01X-SPR24-LTM	G6M-97-05B-SPR24-LTM	XSA-12-96X-SPR24-LTM
Analyte	Units	Cleanup Level[1]	4/22/2024	4/22/2024	4/22/2024	4/22/2024	4/23/2024	4/23/2024	4/22/2024	4/23/2024	4/23/2024	4/22/2024
Dissolved Gases												
Ethane	µg/L	--	**34.0**	**4.70**	**1.30**	**2.00**	**9.20**	**1.30**	**0.600 J**	0.760 U	**17.0**	---
Ethene	µg/L	--	**18.0**	**2.40**	**2.50**	**2.10**	**16.0**	0.710 U	**0.530 J**	0.710 U	**5.30**	---
Methane	µg/L	--	**20,000**	**11,000**	**13,000**	**15,000**	**24,000**	**8,800**	**130**	**910**	**31,000**	---
General Chemistry												
Alkalinity, Total (as CaCO3)	mg/L	--	**57.0**	**73.0**	**64.0**	**61.0**	**91.0**	**110**	---	**67.0**	**130**	---
Nitrate-Nitrite (as N)	mg/L	10,000	**0.0820 J**	**0.0970 J**	**0.0690 J**	**0.120 J**	**0.0540 J**	0.0250 U	---	0.0250 U	**0.0640 J**	---
Sulfate	mg/L	--	5.00 U	**0.440 J**	1.00 U	1.00 U	**9.70 J**	**10.0 J**	**5.30**	**15.0**	10.0 U	---
Sulfide	mg/L	--	**1.60 J**	**0.850 J**	1.80 UJ	1.70 UJ	1.80 U	1.80 U	---	1.70 U	1.60 U	---
Total Organic Carbon	mg/L	--	**3.70**	**7.10**	**67.0**	**68.0**	**5.30**	**2.00**	**1.60**	**1.10**	**7.50**	---
Metals												
Aluminum	µg/L		150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
Arsenic	µg/L	10	**140**	**280**	**28.0**	**32.0**	**59.0**	**30.0**	**6.10**	**200**	**240**	**1.80 J**
Iron	µg/L	3,129	**67,000**	**41,000**	**74,000**	**77,000**	**22,000**	**4,700**	**1,200**	**6,700**	**61,000**	**1,700**
Manganese	µg/L	1,460	**5,900**	**440**	**2,500**	**2,700**	**13,000**	**16,000**	**3,600**	**3,800**	**7,300**	**5,600**
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,1-Trichloroethane	µg/L	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2-Trichloroethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethene	µg/L	7	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloropropene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,3-Trichlorobenzene	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
1,2,3-Trichloropropane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
1,2,4-Trimethylbenzene	µg/L	--	**0.750 J**	1.00 U	**0.860 J**	**0.790 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dibromo-3-chloropropane	µg/L	--	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dibromoethane (EDB)	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethane	µg/L	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene	µg/L	--	**7.70**	**4.10**	**1.10 J**	**0.840 J**	**48.0**	**7.80**	**52.0**	1.00 U	**2.20**	**5.40**
1,2-Dichloropropane	µg/L	5	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.540 J**	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trimethylbenzene	µg/L	--	**0.320 J**	1.00 U	**0.430 J**	**0.300 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**0.340 J**	1.00 U	1.00 U	1.00 U
1,3-Dichloropropane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**0.360 J**	1.00 U	1.00 U	1.00 U
2,2-Dichloropropane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
2-Butanone (MEK)	µg/L	--	20.0 U	20.0 U	20.0 U	20.0 UJ	20.0 UJ	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
2-Chlorotoluene	µg/L	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Hexanone	µg/L	--	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-Chlorotoluene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
4-Methyl-2-pentanone (MIBK)	µg/L	--	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Acetone	µg/L	--	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzene	µg/L	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**0.400 J**
Bromobenzene	µg/L	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.240 J**	0.500 U	0.500 U	0.500 U
Bromochloromethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromodichloromethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromoform	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Bromomethane	µg/L	--	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Carbon disulfide	µg/L	--	1.00 UJ	1.00 UJ	1.00 UJ	1.00 U	1.00 UJ	1.00 UJ	1.00 UJ	1.00 U	1.00 U	1.00 U
Carbon tetrachloride	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U

Table 6
Groundwater Analytical Results, Spring 2024
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Area	Area 1	Area 1/FDSA			Area 3	Area 4	Area 5			
		Location	G6M-13-05X	G6M-04-10A	G6M-07-02X	G6M-07-02X	G6M-04-02X	G6M-13-02X	G6M-04-07X	G6M-13-01X	G6M-97-05B	XSA-12-96X
		Sample ID	G6M-13-05X-SPR24-LTM	G6M-04-10A-SPR24-LTM	G6M-07-02X-SPR24-LTM	AOC50-DUP01-SPR24-LTM	G6M-04-02X-SPR24-LTM	G6M-13-02X-SPR24-LTM	G6M-04-07X-SPR24-LTM	G6M-13-01X-SPR24-LTM	G6M-97-05B-SPR24-LTM	XSA-12-96X-SPR24-LTM
Analyte	Units	Cleanup Level[1]	4/22/2024	4/22/2024	4/22/2024	4/22/2024	4/23/2024	4/23/2024	4/22/2024	4/23/2024	4/23/2024	4/22/2024
Chlorobenzene	µg/L	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloroethane	µg/L	--	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Chloroform	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloromethane	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
cis-1,2-Dichloroethene	µg/L	70	**7.20**	**4.10**	1.00 U	1.00 U	**48.0**	**6.50**	**51.0**	1.00 U	1.00 U	**3.40**
cis-1,3-Dichloropropene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dibromochloromethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dibromomethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dichlorodifluoromethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethylbenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UJ	1.00 UJ	1.00 U
Hexachlorobutadiene	µg/L	--	**0.290 J**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Isopropylbenzene (Cumene)	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
m,p-Xylene	µg/L	--	**0.730 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methyl tert-butyl ether (MTBE)	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methylene chloride	µg/L	5	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
n-Butylbenzene	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
n-Propylbenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Naphthalene	µg/L	--	**2.40 J**	5.00 U	**3.50 J**	**3.00 J**	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
o-Xylene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
p-Cymene (p-Isopropyltoluene)	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
sec-Butylbenzene	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Styrene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
tert-Butylbenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrachloroethene (PCE)	µg/L	5	**16.0**	1.00 U	1.00 U	1.00 U	**17.0**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Toluene	µg/L	--	**0.360 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
trans-1,2-Dichloroethene	µg/L	--	**0.500 J**	1.00 U	1.00 U	1.00 U	**0.790 J**	**1.30 J**	**0.780 J**	1.00 U	**0.640 J**	**2.00**
trans-1,3-Dichloropropene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Trichloroethene (TCE)	µg/L	5	0.500 U	0.500 U	0.500 U	0.500 U	**30.0**	0.500 U	**7.70**	0.500 U	0.500 U	0.500 U
Trichlorofluoromethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Vinyl acetate	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Vinyl chloride	µg/L	2	**8.20**	1.00 U	1.00 U	1.00 UJ	**6.10**	**0.590 J**	**7.80**	1.00 U	**0.740 J**	**2.00**
Xylenes, Total	µg/L	--	**1.40 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Field Parameters												
pH	SU	--	6.79	6.57	6.65	6.65	5.76	6.35	6.35	6.67	6.81	6.57
Specific Conductivity	mS/cm	--	0.670	0.200	0.200	0.200	1.50	1.24	0.480	0.750	0.880	1.09
Turbidity	NTU	--	51.8	4.58	14.2	14.2	13.0	3.20	3.90	1.06	9.27	13.0
Dissolved Oxygen	mg/L	--	0.370	2.60	0.590	0.590	0.690	0.700	0.740	0.230	0.210	0.830
Temperature	°C	--	12.2	12.4	9.60	9.60	13.1	14.8	11.9	13.9	14.1	12.5
Oxidation Reduction Potential	mV	--	-79.2	-23.0	-49.4	-49.4	-84.5	-65.7	4.40	-20.5	-98.3	-32.0

Notes:

[1]Area of Contamination (AOC) 50 cleanup levels are from the Record of Decision (United States Environmental Protection Agency 2004).

Shading = Above cleanup level

--- = not sampled

Acronyms and Abbreviations:

°C = degree Celsius
µg/L = microgram per liter
µS/cm = microSiemen per centimeter
FDSA = former drum storage area
ID = identification
J = The analyte was positively identified, the quantitation is an estimation.
mg/L = milligram per liter
mV = millivolt
NTU = nephelometric turbidity unit
SU = standard unit
U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the limit of detection.
UJ = The analyte was not detected and was reported as less than the limit of detection. However, the associated numerical value is approximate.

Reference:

United States Environmental Protection Agency. 2004. Final Record of Decision, AOC 50, Devens, Massachusetts. January 22.
Available online at: https://semspub.epa.gov/work/01/201577.pdf.

Table 7
Groundwater Analytical Results, Fall 2024
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Area	Area 1											Area 1/FDSA					Area 2				Area 3				
		Location	G6M-04-09X	G6M-04-11X	G6M-02-08X	G6M-04-15X	G6M-04-22X	G6M-04-31X	G6M-13-05X	G6M-13-06X	G6M-95-19X	G6M-95-20X	G6M-95-20X	G6M-04-10A	G6M-04-10X	G6M-07-02X	G6M-07-02X	G6M-04-13X	G6M-02-01X-FAL24	G6M-04-01X	G6M-04-03X	G6M-07-01X	G6M-03-07X	G6M-13-03X	G6M-04-02X	G6M-04-04X	G6M-04-04X
		Sample ID	G6M-04-09X-FAL24	G6M-04-11X-FAL24	G6M-02-08X-FAL24	G6M-04-15X-FAL24	G6M-04-22X-FAL24	G6M-04-31X-FAL24	G6M-13-05X-FAL24	G6M-13-06X-FAL24	G6M-95-19X-FAL24	G6M-95-20X-FAL24	AOC50-DUP04-FAL24	G6M-04-10A-FAL24	G6M-04-10X-FAL24	AOC50-DUP02-FAL24	G6M-07-02X-FAL24	G6M-04-13X-FAL24			G6M-04-03X-FAL24	G6M-07-01X-FAL24	G6M-03-07X-FAL24	G6M-13-03X-FAL24	G6M-04-02X-FAL24	G6M-04-04X-FAL24	AOC50-DUP01-FAL24
Analyte	**Units**	**Cleanup Level[1]**	**11/12/2024**	**11/14/2024**	**11/13/2024**	**11/7/2024**	**11/7/2024**	**11/7/2024**	**11/11/2024**	**11/11/2024**	**11/12/2024**	**11/12/2024**	**11/12/2024**	**11/8/2024**	**11/8/2024**	**11/12/2024**	**11/12/2024**	**11/12/2024**	**11/8/2024**	**11/8/2024**	**11/14/2024**	**11/8/2024**	**11/14/2024**	**11/7/2024**	**11/7/2024**	**11/14/2024**	**11/14/2024**
Dissolved Gases																											
Ethane	µg/L	--	**6.30**	---	**6.70**	---	---	---	**24.0**	**11.0**	---	---	---	0.760 U	---	**0.920 J**	**1.90**	---	**2.70**	---	**4.00**	**0.580 J**	**5.30**	---	**5.00**	---	---
Ethene	µg/L	--	0.710 U	---	0.710 U	---	---	---	**10.0**	0.710 U	---	---	---	0.710 U	---	0.710 U	0.710 U	---	**27.0**	---	**4.90**	**3.30**	0.710 U	---	**11.0**	---	---
Methane	µg/L	--	**30,000**	---	**28,000**	---	---	---	**13,000**	**18,000**	---	---	---	**890 J**	---	**13,000**	**12,000**	---	**22,000**	---	**13,000**	**3,900**	**23,000**	---	**16,000**	---	---
General Chemistry																											
Alkalinity, Total (as CaCO3)	mg/L	--	**60.0**	---	**37.0**	---	---	---	**57**	**200**	---	---	---	**46.0**	---	**66.0**	**62.0**	---	**160**	---	**130**	**35.0**	**140**	---	**110**	---	---
Nitrate-Nitrite (as N)	mg/L	10,000	**0.0280 J**	---	**0.0420 J**	---	---	---	**0.0160 J**	0.0250 U	---	---	---	**0.0180 J**	---	0.0250 U	**0.0300 J**	---	0.0250 U	---	**0.0280 J**	**0.700**	**0.0270 J**	---	0.0250 U	---	---
Sulfate	mg/L	--	1.00 U	---	1.00 U	---	---	---	1.00 U	1.00 U	---	---	---	1.00 U	---	1.00 U	1.00 U	---	**7.50**	---	1.00 U	**8.80**	1.00 U	---	**9.20**	---	---
Sulfide	mg/L	--	1.70 U	---	**1.80 J**	---	---	---	1.70 U	**5.70**	---	---	---	1.60 UJ	---	**1.70 J**	1.70 U	---	1.60 UJ	---	1.70 U	1.60 UJ	1.70 U	---	1.70 U	---	---
Total Organic Carbon	mg/L	--	**4.30**	---	**10.0**	---	---	---	**2.80**	**25.0**	---	---	---	**3.50**	---	**52.0**	**50.0**	---	**3.60**	---	**5.50**	**3.00**	**14.0**	---	**3.70**	---	---
Metals																											
Arsenic	µg/L	10	**310**	3.00 U	**170**	**150**	**710**	**290**	**130**	**380**	---	**35.0**	**32.0**	**260 J**	---	**65.0**	**60.0**	---	**260**	**800**	**300**	**1.40 J**	**520**	---	**42.0**	**520**	**500**
Iron	µg/L	3,129	**20,000**	50.0 U	**19,000**	**9,100**	**95,000**	**40,000**	**52,000**	**150,000**	---	**15,000**	**15,000**	**33,000**	---	**84,000**	**78,000**	---	**32,000**	**46,000**	**15,000**	**53.0 J**	**92,000**	---	**12,000**	**78,000**	**75,000**
Manganese	µg/L	1,460	**1,100**	5.00 U	**510**	**910**	**1,000**	**2,400**	**4,500**	**1,000**	---	**1,200**	**1,100**	**400**	---	**2,500**	**2,400**	---	**1,500**	**6,600**	**1,100**	**35.0**	**2,500**	---	**13,000**	**9,000**	**8,600**
Volatile Organic Compounds																											
1,1,1,2-Tetrachloroethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,1-Trichloroethane	µg/L	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2-Trichloroethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethene	µg/L	7	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloropropene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,3-Trichlorobenzene	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	**1.10 J**	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
1,2,3-Trichloropropane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	**0.950 J**	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
1,2,4-Trimethylbenzene	µg/L	--	1.00 U	1.00 U	**0.500 J**	1.00 U	**1.80 J**	**0.430 J**	**0.780 J**	**3.50**	1.00 U	**0.440 J**	**0.490 J**	1.00 U	1.00 U	**1.10 J**	**1.00 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dibromo-3-chloropropane	µg/L	--	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
1,2-Dibromoethane (EDB)	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**0.420 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethane	µg/L	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene	µg/L	--	**0.460 J**	1.00 U	**0.840 J**	**0.780 J**	**0.900 J**	1.00 U	**9.60**	**0.530 J**	1.00 U	**1.10 J**	**0.960 J**	**0.910 J**	1.00 U	**0.490 J**	**0.470 J**	1.00 U	**33.0**	**0.410 J**	1.00 U	**2.10**	**0.390 J**	1.00 U	**39.0**	1.00 U	1.00 U
1,2-Dichloropropane	µg/L	5	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.460 J**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trimethylbenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	**0.580 J**	1.00 U	1.00 U	**1.00 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**0.340 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**0.550 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichloropropane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**0.610 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
2,2-Dichloropropane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
2-Butanone (MEK)	µg/L	--	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
2-Chlorotoluene	µg/L	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Hexanone	µg/L	--	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-Chlorotoluene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
4-Methyl-2-pentanone (MIBK)	µg/L	--	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Acetone	µg/L	--	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzene	µg/L	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromobenzene	µg/L	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.330 J**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromochloromethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromodichloromethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromoform	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Bromomethane	µg/L	--	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Carbon disulfide	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Carbon Tetrachloride	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chlorobenzene	µg/L	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloroethane	µg/L	--	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	**6.10 J**	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Chloroform	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloromethane	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
cis-1,2-Dichloroethene	µg/L	70	**0.460 J**	1.00 U	**0.840 J**	**0.780 J**	**0.900 J**	1.00 U	**9.10**	**0.530 J**	1.00 U	**1.10 J**	**0.960 J**	**0.910 J**	1.00 U	**0.490 J**	**0.470 J**	1.00 U	**31.0**	**0.410 J**	1.00 U	**2.10**	**0.390 J**	1.00 U	**38.0**	**0.260 J**	1.00 U
cis-1,3-Dichloropropene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Cumene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dibromochloromethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dibromomethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dichlorodifluoromethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethylbenzene	µg/L	--	0.500 U	0.500 U	0.500 U	0.500 U	**0.420 J**	0.500 U	**0.210 J**	**0.700 J**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.320 J**	0.500 U	0.500 U	0.500 U	0.500 U
Hexachlorobutadiene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**1.20 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
m,p-Xylene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	**0.660 J**	1.00 U	**0.580 J**	**0.750 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methyl tert-butyl ether (MTBE)	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methylene chloride	µg/L	5	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
n-Butylbenzene	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	**0.830 J**	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
n-Propylbenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**0.720 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**0.430 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Naphthalene	µg/L	--	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	**2.60 J**	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	**3.60 J**	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
o-Xylene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	**0.400 J**	1.00 U	**0.480 J**	**0.710 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**0.330 J**	1.00 U	1.00 U	**0.270 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
p-Cymene (p-Isopropyltoluene)	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
sec-Butylbenzene	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Styrene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
tert-Butylbenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrachloroethene (PCE)	µg/L	5	1.00 U	1.00 U	1.00 U	**0.400 J**	1.00 U	1.00 U	**24.0**	1.00 U	**1.70 J**	1.00 U	1.00 U	1.00 U	1.00 U	**0.570 J**	1.00 U	1.00 U	**38.0**	1.00 U	1.00 U	**30.0**	1.00 U	1.00 U	**20.0**	1.00 U	1.00 U
Toluene	µg/L	--	1.00 U	**0.690 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**4.60**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
trans-1,2-Dichloroethene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**0.450 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**1.70 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**0.600 J**	1.00 U	1.00 U
trans-1,3-Dichloropropene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Trichloroethene (TCE)	µg/L	5	0.500 U	0.500 U	0.500 U	**0.460 J**	0.500 U	0.500 U	**8.50**	0.500 U	0.500 U	**0.230 J**	**0.270 J**	0.500 U	**0.320 J**	0.500 U	0.500 U	0.500 U	**24.0**	**0.380 J**	0.500 U	**2.90**	0.500 U	0.500 U	**41.0**	0.500 U	0.500 U
Trichlorofluoromethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Vinyl acetate	µg/L	--	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ
Vinyl chloride	µg/L	2	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**9.60**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U

Table 7
Groundwater Analytical Results, Fall 2024
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Area	Area 4					Area 5																Nashua River
		Location	G6M-02-04X	G6M-02-13X	G6M-13-02X	G6M-13-02X	G6M-97-28X	G6M-02-06X	G6M-02-07X	G6M-02-11X	G6M-02-12X	G6M-03-08X	G6M-03-10X	G6M-04-05X	G6M-04-06X	G6M-04-07X	G6M-13-01X	G6M-13-04X	G6M-97-05B	MW-3	MW-7	XSA-12-95X	XSA-12-96X	XSA-12-98X	G6M-04-14X
		Sample ID	G6M-02-04X-FAL24	G6M-02-13X-FAL24	AOC50-DUP03-FAL24	G6M-13-02X-FAL24	G6M-97-28X-FAL24	G6M-02-06X-FAL24	G6M-02-07X-FAL24	G6M-02-11X-FAL24	G6M-02-12X-FAL24	G6M-03-08X-FAL25	G6M-03-10X-FAL24	G6M-04-05X-FAL24	G6M-04-06X-FAL24	G6M-04-07X-FAL24	G6M-13-01X-FAL24	G6M-13-04X-FAL24	G6M-97-05B-FAL24	MW-3-FAL24	MW-7-FAL24	XSA-12-95X-FAL24	XSA-12-96X-FAL24	XSA-12-98X-FAL24	G6M-04-14X-FAL24
Analyte	**Units**	**Cleanup Level[1]**	**11/12/2024**	**11/12/2024**	**11/14/2024**	**11/14/2024**	**11/12/2024**	**11/12/2024**	**11/12/2024**	**11/7/2024**	**11/8/2024**	**11/8/2024**	**11/13/2024**	**11/8/2024**	**11/11/2024**	**11/11/2024**	**11/12/2024**	**11/11/2024**	**11/11/2024**	**11/12/2024**	**11/12/2024**	**11/15/2024**	**11/13/2024**	**11/15/2024**	**11/11/2024**
Dissolved Gases																								
Ethane	µg/L	--	---	---	**0.640 J**	**0.750 J**	---	---	---	---	---	---	---	---	---	0.760 U	0.760 U	---	**11.0**	---	---	---	---	---	---
Ethene	µg/L	--	---	---	**1.40**	**1.60**	---	---	---	---	---	---	---	---	---	0.710 U	0.710 U	---	**6.30**	---	---	---	---	---	---
Methane	µg/L	--	---	---	**2,000**	**2,200**	---	---	---	---	---	---	---	---	---	**1.90**	**160**	---	**22,000**	---	---	---	---	---	---
General Chemistry																									
Alkalinity, Total (as CaCO3)	mg/L	--	---	---	**89.0**	**91.0**	---	---	---	---	---	---	---	---	---	**160**	**58.0**	---	**160**	---	---	---	---	---	---
Nitrate-Nitrite (as N)	mg/L	10,000	---	---	0.0250 U	0.0250 U	---	---	---	---	---	---	---	---	---	**0.330**	**0.200**	---	0.0250 UJ	---	---	---	---	---	---
Sulfate	mg/L	--	---	---	**6.60**	**6.80**	---	---	---	---	---	---	---	---	---	**8.40**	**15.0**	---	1.00 U	---	---	---	---	---	---
Sulfide	mg/L	--	---	---	1.70 U	1.70 U	---	---	---	---	---	---	---	---	---	1.70 U	1.70 U	---	1.70 U	---	---	---	---	---	---
Total Organic Carbon	mg/L	--	---	---	**3.60**	**3.90**	---	---	---	---	---	---	---	---	---	**1.10**	**0.890 J**	---	**6.30**	---	---	---	---	---	---
Metals																									
Arsenic	µg/L	10	**420**	**280**	**19.0**	**20.0**	**120**	**1.50 J**	**0.980 J**	**560**	**610**	**530**	**230**	---	3.00 U	**2.60 J**	**180**	**370**	**270**	**660**	**780**	**1.20 J**	**1.80 J**	3.00 U	**8.70**
Iron	µg/L	3,129	**38,000**	**12,000**	**2,800**	**2,800**	**7,400**	50.0 U	50.0 U	**36,000**	**32,000**	**9,200**	**33,000**	---	50.0 U	50.0 U	**4,700**	**55,000**	**44,000**	**61,000**	**39,000**	**2,500**	**2,500**	**39.0 J**	50.0 U
Manganese	µg/L	1,460	**1,900**	**15,000**	**14,000**	**15,000**	**4,500**	5.00 U	**4.90 J**	**4,600**	**4,700**	**9,000**	**800**	---	**140**	**62.0**	**3,500**	**5,400**	**9,800**	**12,000**	**12,000**	**15,000**	**4,200**	**4.60 J**	**5.40 J**
Volatile Organic Compounds																									
1,1,1,2-Tetrachloroethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,1-Trichloroethane	µg/L	--	0.500 U	0.500 U	0.500 U	0.500 U	---	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1,2-Trichloroethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethene	µg/L	7	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloropropene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,3-Trichlorobenzene	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	---	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
1,2,3-Trichloropropane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trichlorobenzene	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	---	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
1,2,4-Trimethylbenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dibromo-3-chloropropane	µg/L	--	5.00 U	5.00 U	5.00 UJ	5.00 U	---	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 UJ	5.00 U
1,2-Dibromoethane (EDB)	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethane	µg/L	5	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene	µg/L	--	1.00 U	1.00 U	**2.90 J**	**0.520 J**	---	1.00 U	1.00 U	**1.50 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**2.40**	1.00 U	**0.790 J**	**0.580 J**	1.00 U	**1.00 J**	**1.30 J**	**5.80**	1.00 U	1.00 U
1,2-Dichloropropane	µg/L	5	0.500 U	0.500 U	0.500 U	0.500 U	---	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,3,5-Trimethylbenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichloropropane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
2,2-Dichloropropane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
2-Butanone (MEK)	µg/L	--	20.0 U	20.0 U	20.0 U	20.0 U	---	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
2-Chlorotoluene	µg/L	--	0.500 U	0.500 U	0.500 U	0.500 U	---	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Hexanone	µg/L	--	10.0 U	10.0 U	10.0 U	10.0 U	---	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-Chlorotoluene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
4-Methyl-2-pentanone (MIBK)	µg/L	--	10.0 U	10.0 U	10.0 U	10.0 U	---	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Acetone	µg/L	--	10.0 U	10.0 U	10.0 U	10.0 U	---	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzene	µg/L	5	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**0.320 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromobenzene	µg/L	--	0.500 U	0.500 U	0.500 U	0.500 U	---	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromochloromethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromodichloromethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromoform	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	---	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Bromomethane	µg/L	--	10.0 U	10.0 U	10.0 U	10.0 U	---	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 UJ	10.0 UJ	10.0 UJ	10.0 UJ	10.0 UJ	10.0 U
Carbon disulfide	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Carbon Tetrachloride	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chlorobenzene	µg/L	--	0.500 U	**0.360 J**	0.500 U	0.500 U	---	0.500 U	0.500 U	0.500 U	0.500 U	**0.330 J**	0.500 U	0.500 U	0.500 U	**0.270 J**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloroethane	µg/L	--	10.0 U	10.0 U	10.0 U	10.0 U	---	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Chloroform	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloromethane	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	---	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
cis-1,2-Dichloroethene	µg/L	70	1.00 U	**0.300 J**	**2.90 J**	1.00 UJ	---	1.00 U	1.00 U	**0.940 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**2.40**	**0.270 J**	**0.790 J**	**0.320 J**	**0.330 J**	**1.00 J**	**1.10 J**	**3.60**	1.00 U	1.00 U
cis-1,3-Dichloropropene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Cumene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dibromochloromethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dibromomethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Dichlorodifluoromethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethylbenzene	µg/L	--	0.500 U	0.500 U	0.500 U	0.500 U	---	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Hexachlorobutadiene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
m,p-Xylene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methyl tert-butyl ether (MTBE)	µg/L	--	2.00 U	**0.970 J**	2.00 U	2.00 U	---	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methylene chloride	µg/L	5	10.0 U	10.0 U	10.0 U	10.0 U	---	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
n-Butylbenzene	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	---	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
n-Propylbenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Naphthalene	µg/L	--	5.00 U	5.00 U	5.00 U	5.00 U	---	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
o-Xylene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
p-Cymene (p-Isopropyltoluene)	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
sec-Butylbenzene	µg/L	--	2.00 U	2.00 U	2.00 U	2.00 U	---	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Styrene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
tert-Butylbenzene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrachloroethene (PCE)	µg/L	5	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	**2.80**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**1.20 J**	1.00 U	**0.670 J**
Toluene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**0.580 J**	**0.400 J**	**0.630 J**	1.00 U
trans-1,2-Dichloroethene	µg/L	--	1.00 U	1.00 U	1.00 U	**0.520 J**	---	1.00 U	1.00 U	**0.530 J**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**2.20**	1.00 U	1.00 U
trans-1,3-Dichloropropene	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Trichloroethene (TCE)	µg/L	5	0.500 U	0.500 U	**1.10**	**0.990 J**	---	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.230 J**	0.500 U	0.500 U	**0.370 J**	0.500 U	0.500 U	**0.250 J**	**0.200 J**	**0.240 J**	**2.50**	0.500 U	**0.390 J**
Trichlorofluoromethane	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Vinyl acetate	µg/L	--	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	---	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.00 U	2.00 UJ	2.00 UJ
Vinyl chloride	µg/L	2	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**2.70**	1.00 U	1.00 U
Xylenes, Total	µg/L	--	1.00 U	1.00 U	1.00 U	1.00 U	---	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Field Parameters																									
pH	pH Units	--	6.84	6.61	6.21	6.21	6.65	7.26	7.62	6.81	6.98	6.93	6.86	6.32	6.48	6.64	6.41	6.67	6.70	6.49	6.28	6.69	6.57	8.20	7.47
Specific Conductivity	mS/cm	--	0.620	1.34	0.720	0.720	0.550	0.110	0.220	0.450	0.530	0.370	0.620	0.100	0.161	0.290	0.490	0.930	0.790	0.960	0.903	1.01	1.12	0.230	0.470
Turbidity	NTU	--	14.3	4.82	1.36	1.36	21.6	0.00	0.860	3.97	0.730	0.00	4.12	2.03	0	0.00	0.00	1.28	27.3	15.9	12.6	24.1	12.9	0.950	3.88
Dissolved Oxygen	mg/L	--	0.230	0.450	0.890	0.890	0.370	7.43	1.15	1.21	0.910	1.29	1.30	0.940	1.61	1.37	0.930	1.32	0.770	0.930	0.85	1.28	0.130	1.06	1.16
Temperature	°C	--	12.6	13.1	12.3	12.3	12.0	10.2	10.8	13.1	14.7	12.3	10.9	12.1	16.4	17.9	11.4	13.5	12.5	11.5	10.2	13.1	10.6	12.6	13.7
Oxidation Reduction Potential	mV	--	-135	-72.1	-32.5	-32.5	-102	123	98.1	-109	-125	-86.4	-97.1	117	215.5	105	-8.90	-90.1	-144	-120	-70.7	-88.0	-52.9	-130	61.0

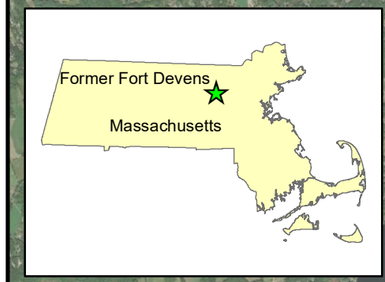
Table 7
Groundwater Analytical Results, Fall 2024
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

Notes:
[1]Area of Contamination (AOC) 50 cleanup levels are from the Record of Decision (United States Environmental Protection Agency 2004).
Shading = Above cleanup level
--- = not sampled

Acronyms and Abbreviations:
°C = degree Celsius
µg/L = microgram per liter
µS/cm = microSiemen per centimeter
FDSA = former drum storage area
ID = identification
J = The analyte was positively identified, the quantitation is an estimation.
mg/L = milligram per liter
mV = millivolt
NTU = nephelometric turbidity unit
U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the limit of detection.
UJ = The analyte was not detected and was reported as less than the limit of detection. However, the associated numerical value is approximate.

Reference:
United States Environmental Protection Agency. 2004. Final Record of Decision, AOC 50, Devens, Massachusetts. January 22.
Available online at: https://semspub.epa.gov/work/01/201577.pdf.

Figures



AOC 50

Former North Post

Former Main Post

Former Fort Devens Army Installation and Fort Devens Reserve Forces Training Area (South Post)

Downtown Ayer

Shirley

Middlesex County

Worcester County

George W Stanton Hwy

Lancaster

Harvard

N

Legend

- Former Fort Devens Boundary
- Area of Contamination (AOC)
- County Line
- Highway
- Major Road

0 1 2

Miles

Aerial Source: ESRI, ArcGIS Online, World Imagery

2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50
Former Fort Devens Army Installation
Devens, Massachusetts

Site Location

SERES Engineering & Services, LLC
ARCADIS a joint venture

Figure 1



Aerial Source: ESRI, ArcGIS Online, World Imagery

Legend

- Former Fort Devens Boundary
- Groundwater Flow Direction
- ERD LTM Well - Sampled Semi-Annually
- ERD LTM Well - Sampled Annually
- ERD LTM Well - Sampled Biennially
- Monitoring Well Converted to Injection Well
- Monitoring Well - Not Included in Approved LTM Network
- MicroWell - Sampled Annually
- MicroWell - Sampled Semi-Annually
- Injection Well Installed Prior to 01/2014
- Injection Well Installed 01/2014

Notes:
ERD = enhanced reductive dechlorination
IWS = in-well stripping
LTM = long-term monitoring

0 200 400
Feet

2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50
Former Fort Devens Army Installation
Devens, Massachusetts

Site Layout

SERES Engineering & Services, LLC
ARCADIS a joint venture

Figure 2

Document Path: T:_ENV\Devens_RFTA\Seed_Task_Order\MXDs\AR2024 - AOC50\Devens_AOC50_Spring_Fall_2024.aprx Name: Figure 2 - AOC50 Site Layout User : yadavs0264 Date: 4/21/2025



Legend

- Former Fort Devens Boundary
- ERD LTM Well - Sampled Semi-Annually
- ERD LTM Well - Sampled Annually
- ERD LTM Well - Sampled Biennially
- Monitoring Well Converted to Injection Well
- Monitoring Well - Not Included in Approved LTM Network
- Injection Well Installed Prior to 01/2014
- Vertical Groundwater Profiling Location
- Former Dry Well
- Floor Drain
- Floor Drain Piping
- Janitor Sink
- Building Footprint
- Former Feature

Notes:
ERD = enhanced reductive dechlorination
LTM = long-term monitoring
PCE = tetrachloroethene
SVE = soil vapor extraction

0 50 100
Feet

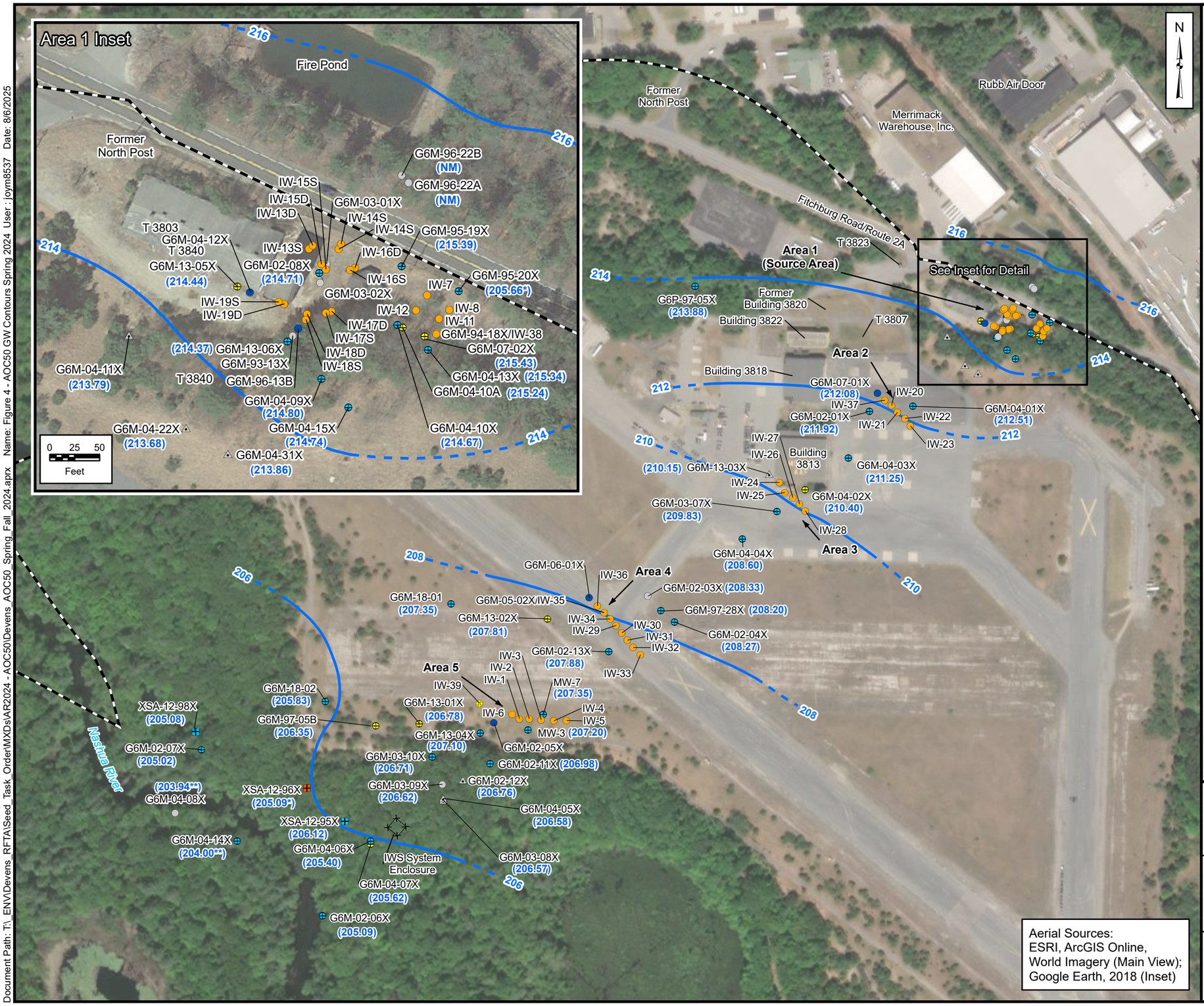
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50
Former Fort Devens Army Installation
Devens, Massachusetts

Site Layout
Source Area

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Figure
3

File: Figure 3 - AOC50 Source Area.mxd



Legend

- Former Fort Devens Boundary
- ERD LTM Well - Sampled Semi-Annually
- ERD LTM Well - Sampled Annually
- ERD LTM Well - Sampled Biennially
- Monitoring Well Converted to Injection Well
- Monitoring Well - Not Included in Approved LTM Network
- MicroWell - Sampled Annually
- MicroWell - Sampled Semi-Annually
- Injection Well Installed Prior to 01/2014
- Injection Well Installed 01/2014
- Groundwater Contour (ft NAVD88) (Interval = 2 ft)
- Groundwater Contour (ft NAVD88) (Interval = 2 ft) (inferred)

Notes:
1. G6M-04-08X, G6M-04-14X, XSA-12-96X, and G6M-95-20X were not used in contouring.

ERD = enhanced reductive dechlorination
ft = feet
IWS = in-well stripping
LTM = long-term monitoring
NAVD88 = North American Vertical Datum of 1988
NM = not measured
* Well not used for potentiometric map due to field measurement error.
** Well not used for contouring; wells located on the opposite side of the Nashua River.

Aerial Sources:
ESRI, ArcGIS Online, World Imagery (Main View); Google Earth, 2018 (Inset)

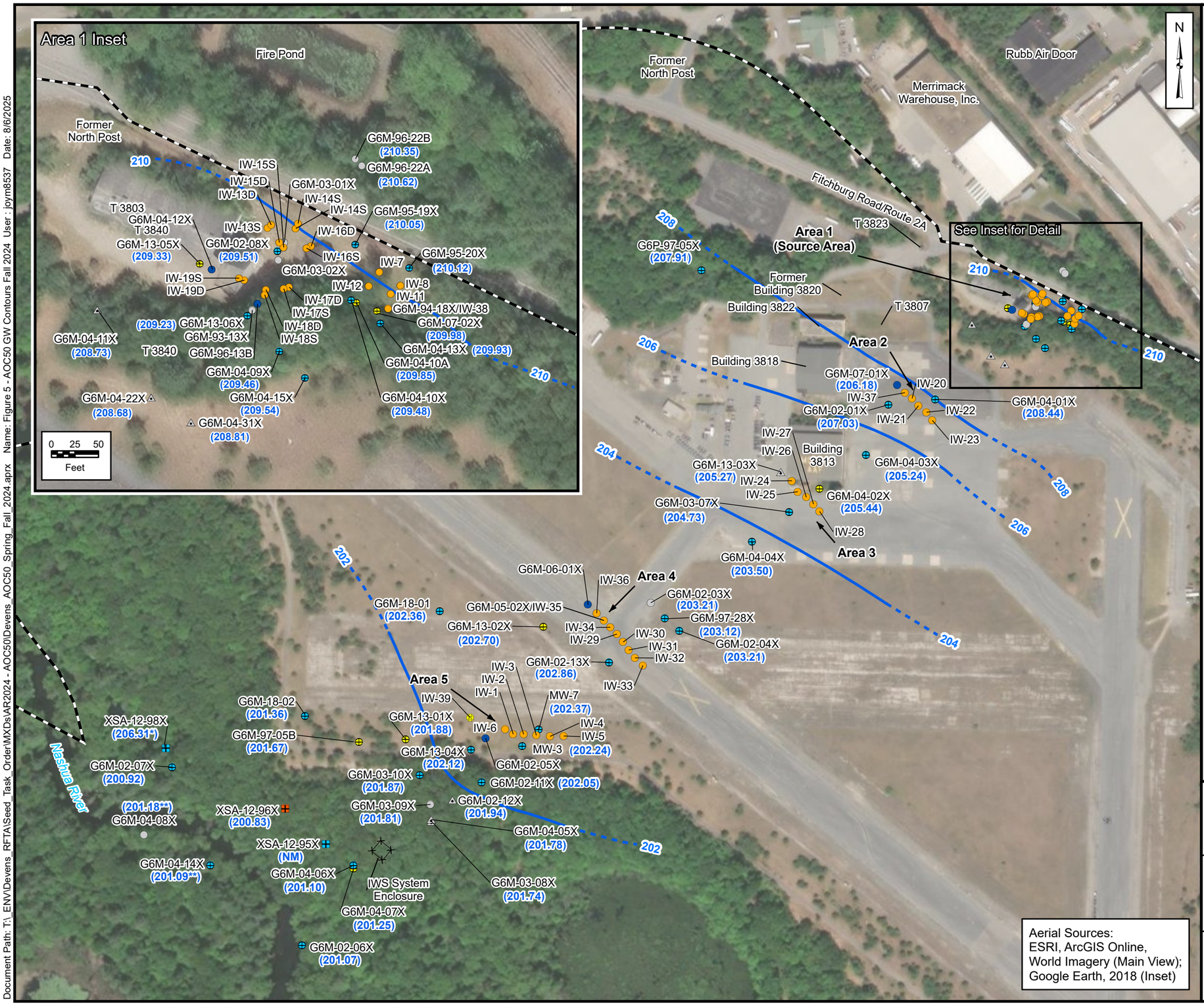
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50
Former Fort Devens Army Installation
Devens, Massachusetts

Groundwater Contour Map - Spring 2024

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FIGURE 4

Document Path: T:_ENV\Devens_RFTA\Seed_Task_Order\MXDsAR2024 - AOC50\Devens_AOC50_Spring_Fall_2024.aprx Name: Figure 4 - AOC50 GW Contours Spring 2024 User: joym8537 Date: 8/6/2025



Legend

- Former Fort Devens Boundary
- ERD LTM Well - Sampled Semi-Annually
- ERD LTM Well - Sampled Annually
- ERD LTM Well - Sampled Biennially
- Monitoring Well Converted to Injection Well
- Monitoring Well - Not Included in Approved LTM Network
- MicroWell - Sampled Annually
- MicroWell - Sampled Semi-Annually
- Injection Well Installed Prior to 01/2014
- Injection Well Installed 01/2014
- Groundwater Contour (ft NAVD88) (Interval = 2 ft)
- Groundwater Contour (ft NAVD88) (Interval = 2 ft) (inferred)

Notes:
1. G6M-04-08X, G6M-04-14X, and XSA-12-98X were not used in contouring.

ERD = enhanced reductive dechlorination
ft = feet
IWS = in-well stripping
LTM = long-term monitoring
NAVD88 = North American Vertical Datum of 1988
NM = not measured
* Well not used for potentiometric map due to field measurement error.
** Well not used for contouring; wells located on the opposite side of the Nashua River.

0 300 600
Feet

Aerial Sources:
ESRI, ArcGIS Online, World Imagery (Main View); Google Earth, 2018 (Inset)

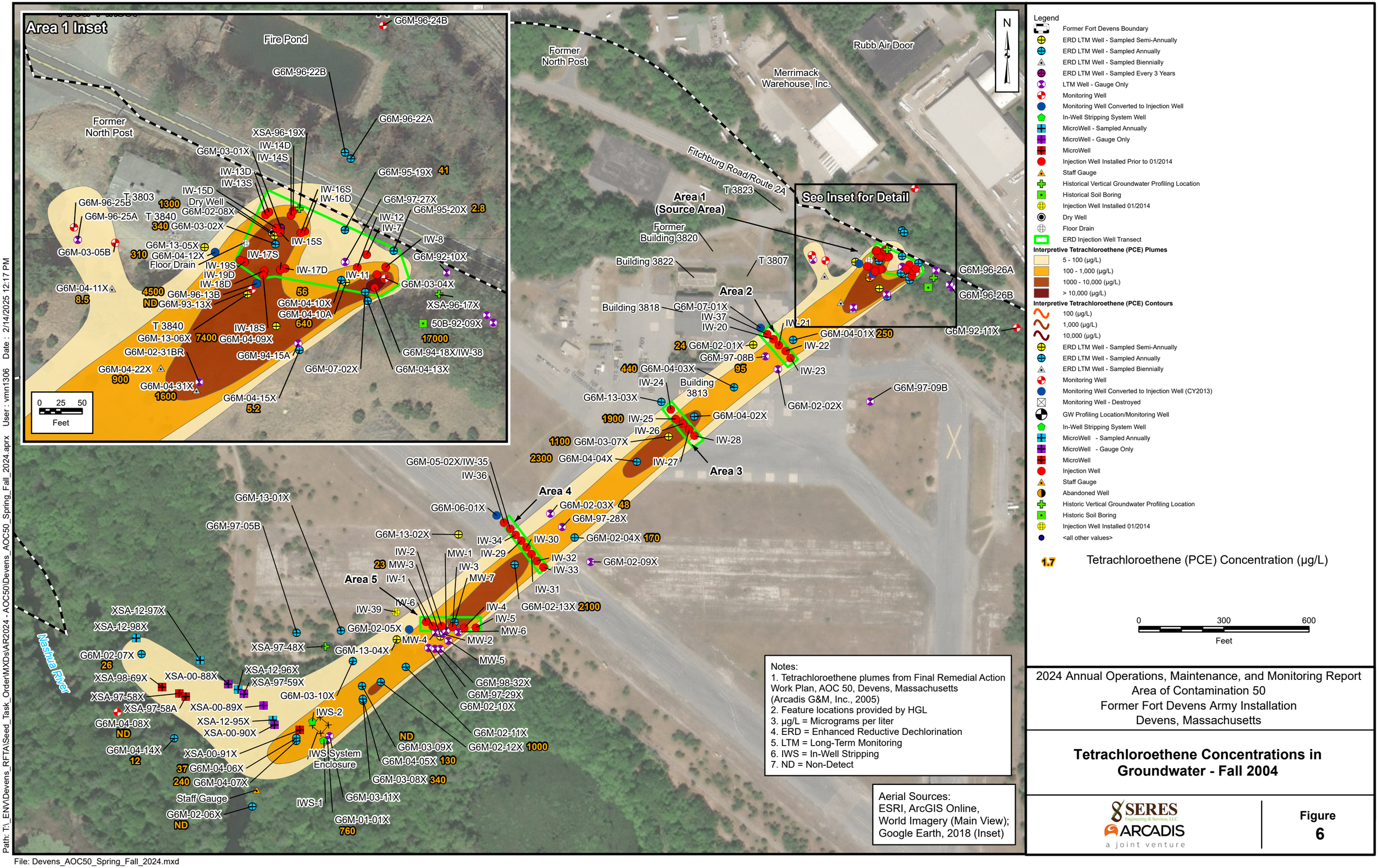
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50
Former Fort Devens Army Installation
Devens, Massachusetts

Groundwater Contour Map - Fall 2024

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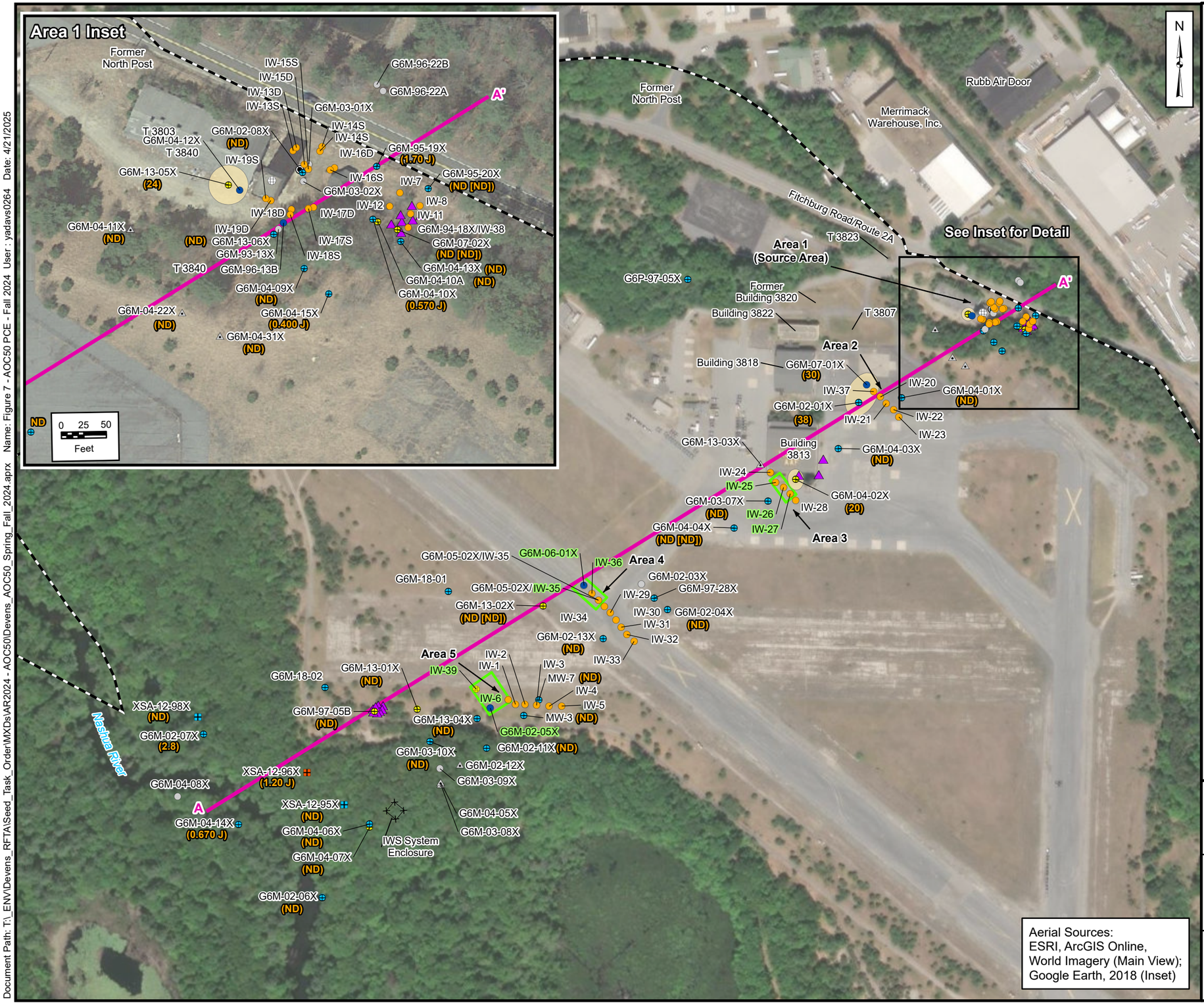
FIGURE 5

Document Path: T:_ENV\Devens_RFTA\Seed_Task_Order\MXDs\AR2024 - AOC50\Devens_AOC50_Spring_Fall_2024.aprx Name: Figure 5 - AOC50 GW Contours Fall 2024 User: joym8537 Date: 8/6/2025



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File: Devens_AOC50_Spring_Fall_2024.mxd



Legend

- Former Fort Devens Boundary
- ERD LTM Well - Sampled Semi-Annually
- ERD LTM Well - Sampled Annually
- ERD LTM Well - Sampled Biennially
- Monitoring Well Converted to Injection Well
- Monitoring Well - Not Included in Approved LTM Network
- MicroWell - Sampled Annually
- MicroWell - Sampled Semi-Annually
- Injection Well Installed Prior to 01/2014
- Injection Well Installed 01/2014
- Dry Well
- Floor Drain
- Geoprobe Injection Location - July/Aug. 2019
- ERD Injection Well Transect - July/Aug. 2019
- Cross-Section Transect
- IW-25 — Well Used for Injection in July/Aug. 2019
- 30 — Fall 2024 PCE Result

Interpretive Tetrachloroethene (PCE) Plumes (dashed where inferred)

- 5 - 100 (µg/L)

Notes:
1. Feature locations were provided by HGL.
2. All concentrations are in micrograms per liter (µg/L).
3. Duplicate results are shown in brackets.
4. J = The result is qualified as estimated.
5. ND = Nondetect
6. The cleanup value for PCE is 5 µg/L.

ERD = enhanced reductive dechlorination
IWS = in-well stripping
LTM = long-term monitoring
PCE = tetrachloroethene

0 328 656
Feet

Aerial Sources:
ESRI, ArcGIS Online, World Imagery (Main View); Google Earth, 2018 (Inset)

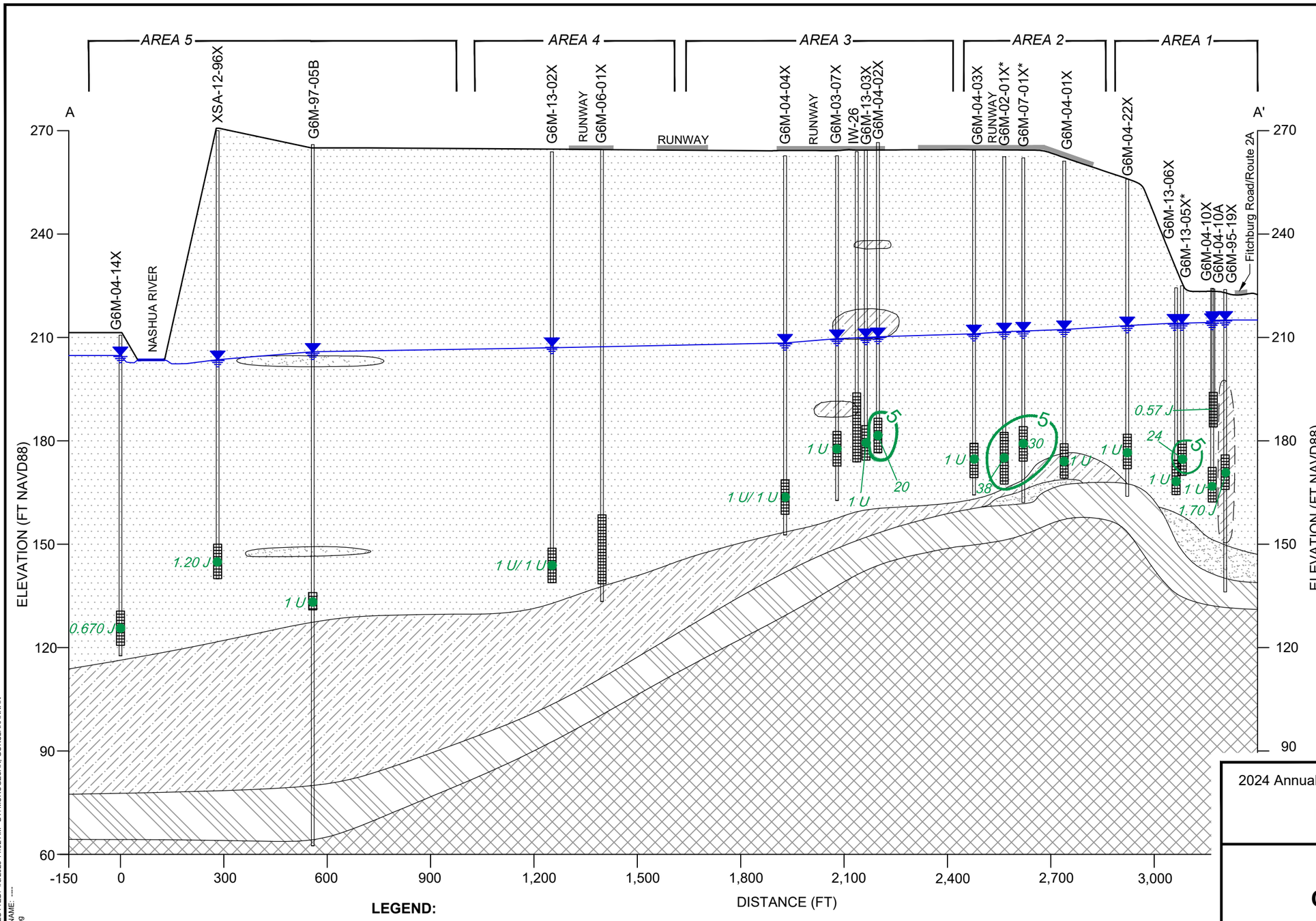
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50
Former Fort Devens Army Installation
Devens, Massachusetts

Tetrachloroethene Concentrations in Groundwater - Fall 2024

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Figure 7

Document Path: T:_ENV\Devens_RFTA\Seed_Task_Order\MXDs\AR2024 - AOC50\Devens_AOC50_Spring_Fall_2024.aprx Name: Figure 7 - AOC50 PCE - Fall 2024 User : yadavs0264 Date: 4/21/2025



NOTES:

1. FT = Feet.
2. NAVD88 = NORTH North American Vertical Datum 1988.
3. J = The Analyte Was Detected At The Reported Concentration; The Value Is An Estimate.
4. U = The Analyte Was Not Detected
5. µg/L = Microgram Per Liter.
6. NS = Not Sampled
7. * = Well Location Projected Against Cross-Section Transect Ground Surface; Slight Differences Observed.
8. Lithology In Well G6m-95-19x Inferred Due To Projection Along Cross-Section Line; Silty Sand Was Not Observed In Logs For Adjacent Wells G6M-04-10X AND G6M-04-10A.
9. Where Stratigraphic Data Are Unavailable, Information Shown On Figure 48 Of The Final 2019 Annual Operations, Maintenance, And Monitoring Report By Koman Government Solutions, Llc. Has Been Used (KGS 2020).

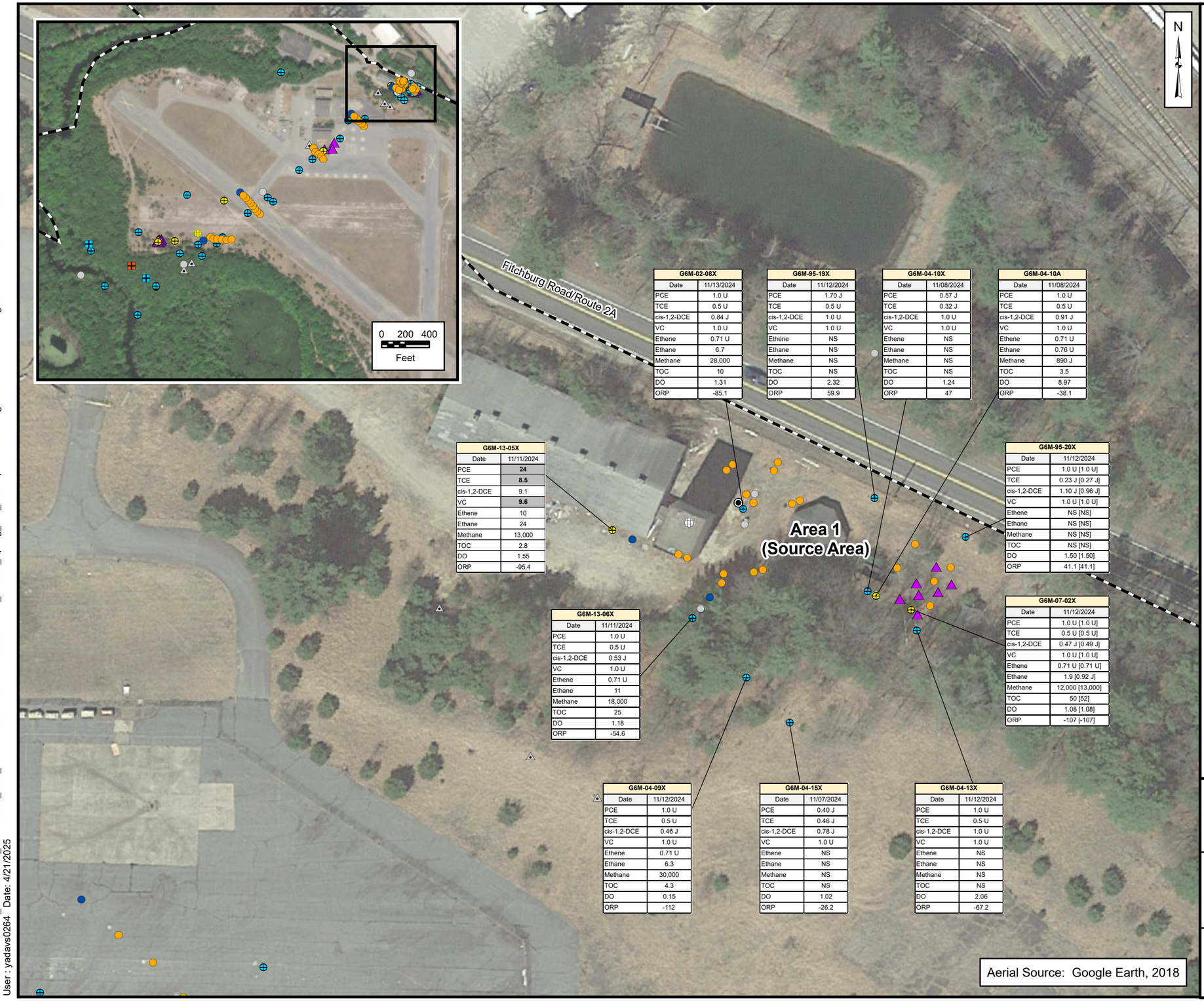
2024 Annual Operations, Manitenance, and Monitoring Report
Area of Contamination 50
Former Fort Devens Army Installation
Devens, Massachusetts

CROSS-SECTION A-A'

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Figure 8

CITY: SYRACUSE, NY DIV/GROUP: IMDV DB: M.WASILEWSKI K.DAVIS R. ALLEN LD: M.WASILEWSKI PIC: K.ABBOTT PM: J.GRAVENMIER TM: A.BAIRD LYR: ON=*;OFF=*REF*
C:\Users\murugesg5893\DOCACCDocs\Arcadis ACC USAUS-99999999-FEDERAL_FORT DEVENS ARMY_DEVENS_MA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\GEN-F08-CROSS SECTION.dwg LAYOUT: 8 SAVED: 4/8/2025 10:59 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 4/8/2025 11:02 AM BY: MURUGESAN, GOKULAKANNAN
XREFS: IMAGES: PROJECTNAME: ---
SERES_Arcadis_logo.png



G6M-02-08X	
Date	11/13/2024
PCE	1.0 U
TCE	0.5 U
cis-1,2-DCE	0.84 J
VC	1.0 U
Ethene	0.71 U
Ethane	6.7
Methane	28,000
TOC	10
DO	1.31
ORP	-85.1

G6M-95-19X	
Date	11/12/2024
PCE	1.70 J
TCE	0.5 U
cis-1,2-DCE	1.0 U
VC	1.0 U
Ethene	NS
Ethane	NS
Methane	NS
TOC	NS
DO	2.32
ORP	59.9

G6M-04-10X	
Date	11/08/2024
PCE	0.57 J
TCE	0.32 J
cis-1,2-DCE	1.0 U
VC	1.0 U
Ethene	NS
Ethane	NS
Methane	NS
TOC	NS
DO	1.24
ORP	47

G6M-04-10A	
Date	11/08/2024
PCE	1.0 U
TCE	0.5 U
cis-1,2-DCE	0.91 J
VC	1.0 U
Ethene	0.71 U
Ethane	0.76 U
Methane	890 J
TOC	3.5
DO	8.97
ORP	-38.1

G6M-13-05X	
Date	11/11/2024
PCE	**24**
TCE	**8.5**
cis-1,2-DCE	9.1
VC	**9.6**
Ethene	10
Ethane	24
Methane	13,000
TOC	2.8
DO	1.55
ORP	-95.4

G6M-95-20X	
Date	11/12/2024
PCE	1.0 U [1.0 U]
TCE	0.23 J [0.27 J]
cis-1,2-DCE	1.10 J [0.96 J]
VC	1.0 U [1.0 U]
Ethene	NS [NS]
Ethane	NS [NS]
Methane	NS [NS]
TOC	NS [NS]
DO	1.50 [1.50]
ORP	41.1 [41.1]

G6M-13-06X	
Date	11/11/2024
PCE	1.0 U
TCE	0.5 U
cis-1,2-DCE	0.53 J
VC	1.0 U
Ethene	0.71 U
Ethane	11
Methane	18,000
TOC	25
DO	1.18
ORP	-54.6

G6M-07-02X	
Date	11/12/2024
PCE	1.0 U [1.0 U]
TCE	0.5 U [0.5 U]
cis-1,2-DCE	0.47 J [0.49 J]
VC	1.0 U [1.0 U]
Ethene	0.71 U [0.71 U]
Ethane	1.9 [0.92 J]
Methane	12,000 [13,000]
TOC	50 [52]
DO	1.08 [1.08]
ORP	-107 [-107]

G6M-04-09X	
Date	11/12/2024
PCE	1.0 U
TCE	0.5 U
cis-1,2-DCE	0.46 J
VC	1.0 U
Ethene	0.71 U
Ethane	6.3
Methane	30,000
TOC	4.3
DO	0.15
ORP	-112

G6M-04-15X	
Date	11/07/2024
PCE	0.40 J
TCE	0.46 J
cis-1,2-DCE	0.78 J
VC	1.0 U
Ethene	NS
Ethane	NS
Methane	NS
TOC	NS
DO	1.02
ORP	-26.2

G6M-04-13X	
Date	11/12/2024
PCE	1.0 U
TCE	0.5 U
cis-1,2-DCE	1.0 U
VC	1.0 U
Ethene	NS
Ethane	NS
Methane	NS
TOC	NS
DO	2.06
ORP	-67.2

Legend

- Former Fort Devens Boundary
- ERD LTM Well - Sampled Semi-Annually
- ERD LTM Well - Sampled Annually
- ERD LTM Well - Sampled Biennially
- Monitoring Well Converted to Injection Well
- Monitoring Well - Not Included in Approved LTM Network
- MicroWell - Sampled Annually
- MicroWell - Sampled Semi-Annually
- Injection Well Installed Prior to 01/2014
- Injection Well Installed 01/2014
- Dry Well
- Floor Drain
- Geoprobe Injection Location - July/Aug. 2019

Notes:
1. All concentrations are in micrograms per liter (µg/L) except TOC (milligrams per liter [mg/L]), DO (mg/L) and ORP (millivolts [mv]).
2. J/UJ = The result is qualified as estimated (detect/nondetect).
3. U = The constituent was not detected above the given laboratory reporting limit.
4. NS = The analyte was not sampled for.
5. **BOLD** and shaded values indicate exceedances of the AOC 50 cleanup level.
6. [ ] = Results from duplicate sample.

cis-1,2-DCE = cis-1,2-dichloroethene
CVOC = chlorinated volatile organic compound
ERD = enhanced reductive dechlorination
LTM = long-term monitoring
PCE = tetrachloroethene
TCE = trichloroethene
TOC = total organic carbon
VC = vinyl chloride
DO = dissolved oxygen
ORP = oxidation reduction potential

0 100 200
Feet

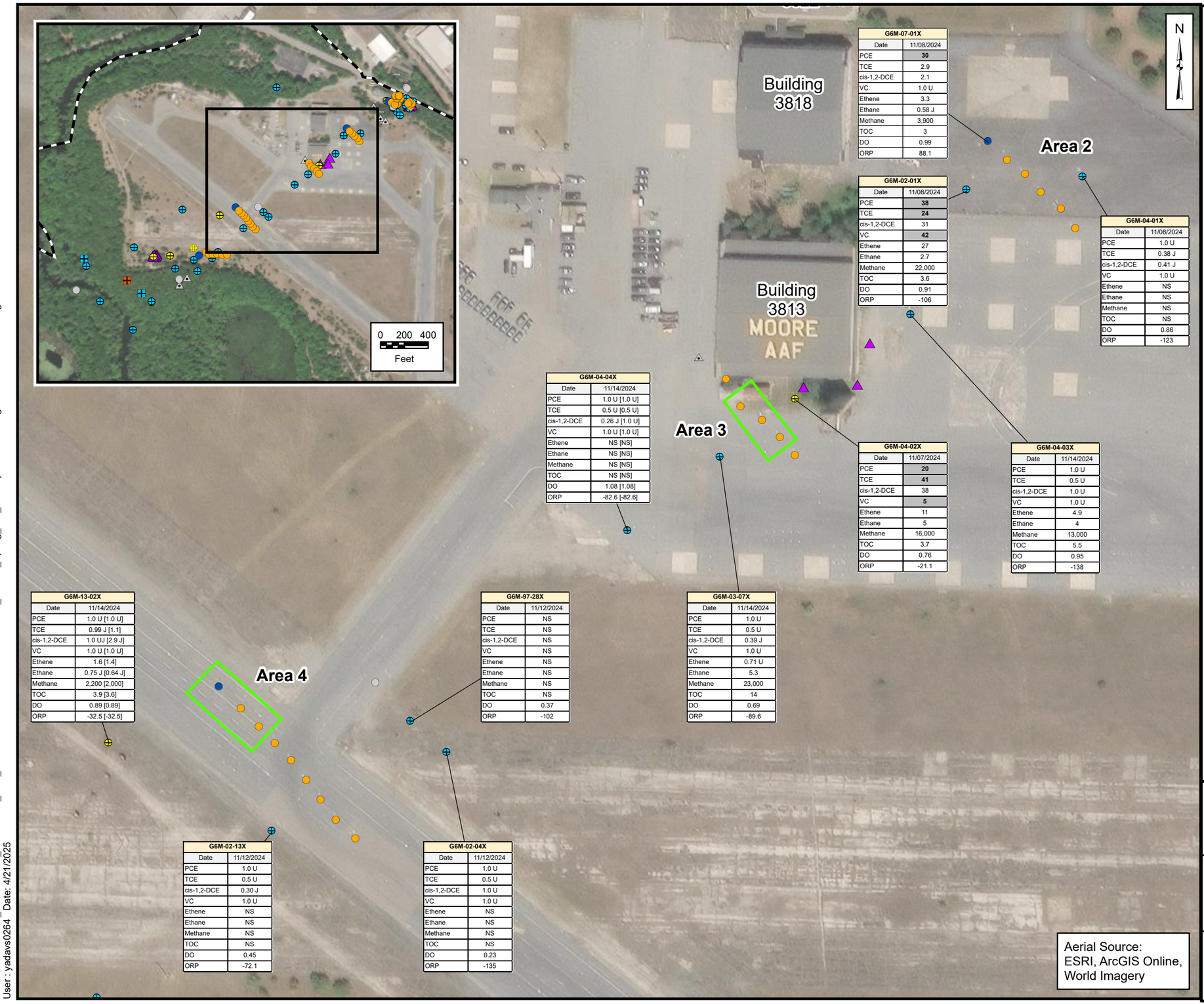
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50
Former Fort Devens Army Installation
Devens, Massachusetts

CVOC and Biogeochemical Data - Fall 2024, Area 1

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Figure 9

Document Path: T:_ENV\Devens_RFTA\Seed_Task_Order\MXDs\AR2024 - AOC50\Devens_AOC50_Spring_Fall_2024.aprx Name: Figure 9 - CVOC and Biogeochemical Data - Fall 2023 - Area 1
User : yadavs0264 Date: 4/21/2025



Legend

- Former Fort Devens Boundary
- ERD LTM Well - Sampled Semi-Annually
- ERD LTM Well - Sampled Annually
- ERD LTM Well - Sampled Biennially
- Monitoring Well Converted to Injection Well
- Monitoring Well - Not Included in Approved LTM Network
- MicroWell - Sampled Annually
- MicroWell - Sampled Semi-Annually
- Injection Well Installed Prior to 01/2014
- Injection Well Installed 01/2014
- Geoprobe Injection Location - July/Aug. 2019
- ERD Injection Well Transect - July/Aug. 2019

Notes:
1. All concentrations are in micrograms per liter (µg/L) except TOC (milligrams per liter [mg/L]), DO (mg/L) and ORP (millivolts [mv]).
2. J/UJ = result is qualified as estimated (detect/nondetect)
3. U = The constituent was not detected above the given laboratory reporting limit.
4. NS = The analyte was not sampled for.
5. **BOLD** and shaded values indicate exceedances of the AOC 50 cleanup level.
6. [ ] = Results from duplicate sample.

cis-1,2-DCE = cis-1,2-dichloroethene
CVOC = chlorinated volatile organic compound
ERD = enhanced reductive dechlorination
LTM = long-term monitoring
PCE = tetrachloroethene
TCE = trichloroethene
TOC = total organic carbon
VC = vinyl chloride
DO = dissolved oxygen
ORP = oxidation reduction potential

0 100 200
Feet

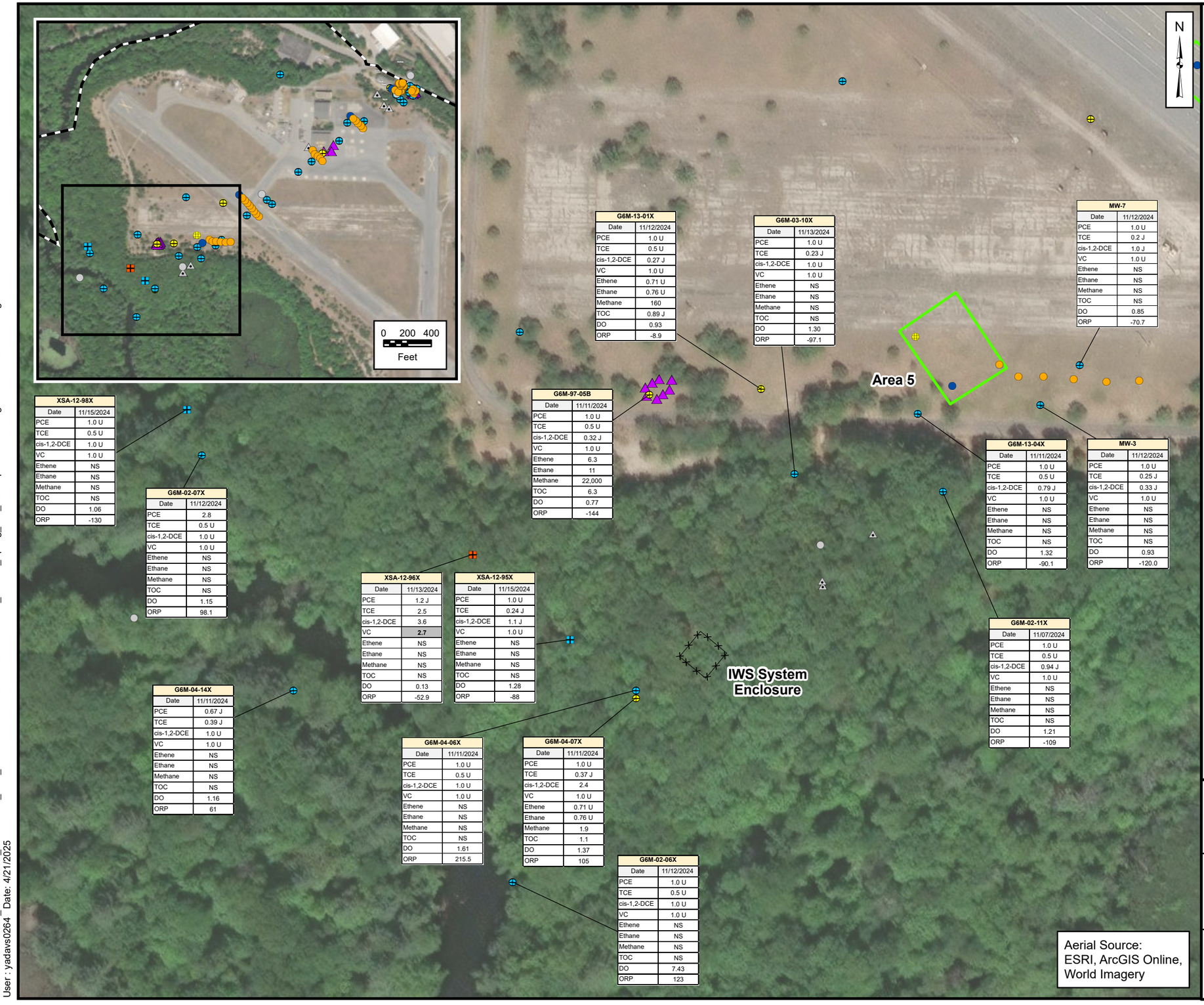
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50
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Devens, Massachusetts

CVOC and Biogeochemical Data - Fall 2024, Areas 2 through 4

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Figure 10

Document Path: T:_ENV\Devens_RFTA\Seed_Task_Order\MXDs\AR2024 - AOC50\Devens_AOC50_Spring_Fall_2024.aprx Name: Figure 10 - CVOC and Biogeochemical Data - Fall 2024 - Areas 2-4
User: yadavs0264 Date: 4/21/2025



Legend

- Former Fort Devens Boundary
- ERD LTM Well - Sampled Semi-Annually
- ERD LTM Well - Sampled Annually
- ERD LTM Well - Sampled Biennially
- Monitoring Well Converted to Injection Well
- Monitoring Well - Not Included in Approved LTM Network
- MicroWell - Sampled Annually
- MicroWell - Sampled Semi-Annually
- Injection Well Installed Prior to 01/2014
- Injection Well Installed 01/2014
- Geoprobe Injection Location - July/Aug. 2019
- ERD Injection Well Transect - July/Aug. 2019

Notes:
1. All concentrations are in micrograms per liter (µg/L) except TOC (milligrams per liter [mg/L]), DO (mg/L) and ORP (millivolts [mv]).
2. Duplicate results are shown in brackets.
3. J/UJ = The result is qualified as estimated (detect/nondetect).
4. U = The constituent was not detected above the given laboratory reporting limit.
5. NS = The analyte was not sampled for.
6. **BOLD** and shaded values indicate exceedances of the AOC 50 cleanup level.

cis-1,2-DCE = cis-1,2-dichloroethene
CVOC = chlorinated volatile organic compound
ERD = enhanced reductive dechlorination
IWS = in-well stripping
LTM = long-term monitoring
PCE = tetrachloroethene
TCE = trichloroethene
TOC = total organic carbon
VC = vinyl chloride
DO = dissolved oxygen
ORP = oxidation reduction potential

0 100 200
Feet

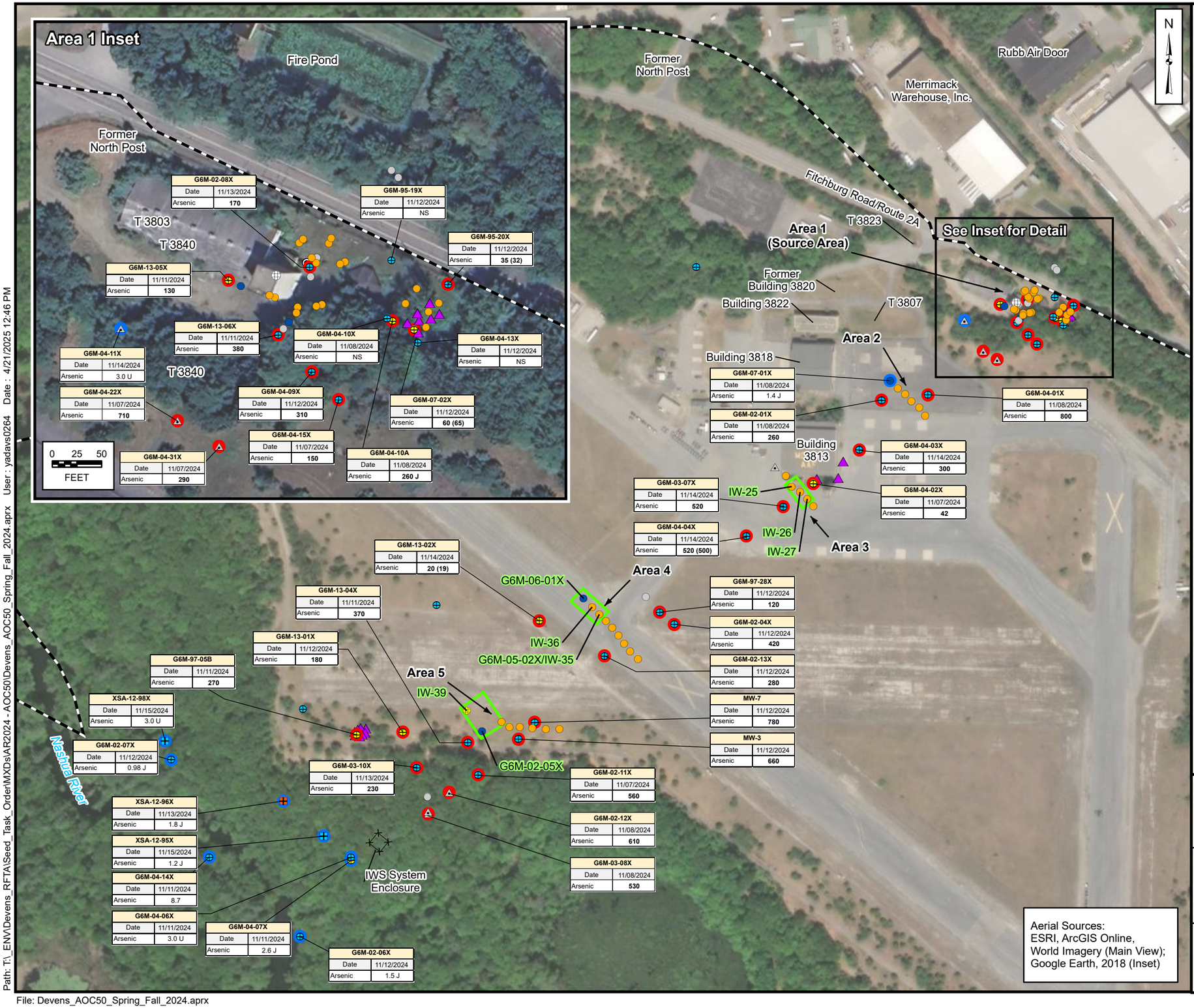
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50
Former Fort Devens Army Installation
Devens, Massachusetts

CVOC and Biogeochemical Data - Fall 2024, Area 5

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Figure 11

Document Path: T:_ENV\Devens_RFTA\Seed_Task_Order\MXDs\AR2024 - AOC50\Devens_AOC50_Spring_Fall_2024.aprx Name: Figure 11 - CVOC and Biogeochemical Data - Fall 2023 - Area 5
User : yadavs0264 Date: 4/21/2025



Legend

- Former Fort Devens Boundary
- ERD LTM Well - Sampled Semi-Annually
- ERD LTM Well - Sampled Annually
- ERD LTM Well - Sampled Biennially
- Monitoring Well Converted to Injection Well
- Monitoring Well - Not Included in Approved LTM Network
- MicroWell - Sampled Annually
- MicroWell - Sampled Semi-Annually
- Injection Well Installed Prior to 01/2014
- Injection Well Installed 01/2014
- Dry Well
- Floor Drain
- Geoprobe Injection Location - July/Aug. 2019
- Arsenic Above Cleanup Goal
- Arsenic Below Cleanup Goal
- ERD Injection Well Transect - July/Aug. 2019
- IW-25 — Well Used for Injection in July/Aug. 2019

Notes:
1. All concentrations are in micrograms per liter (µg/L).
2. Duplicate results are shown in parentheses.
3. J = The result is qualified as estimated.
4. U = The constituent was not detected above the given laboratory reporting limit.
5. Arsenic cleanup level = 10 µg/L
6. BOLD values indicate exceedances of the AOC 50 cleanup level.
7. Wells sampled in Spring 2024 are also depicted on the figure but the data are not provided.

ERD = enhanced reductive dechlorination
IWS = in-well stripping
LTM = long-term monitoring

0 200 400
FEET

2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50
Former Fort Devens Army Installation
Devens, Massachusetts

Arsenic Concentrations in Groundwater
Fall 2024

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Figure
12

Path: T:_ENV\Devens_RFTA\Seed_Task_Order\MXDs\AR2024 - AOC50\Devens_AOC50_Spring_Fall_2024.aprx User : yadavs0264 Date : 4/21/2025 12:46 PM

File: Devens_AOC50_Spring_Fall_2024.aprx

Appendix A

Groundwater Monitoring Field Forms

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Gauging Log

Client:	USACE	**Date(s):**	04-22-2024 and 04-25-2024
Facility:	Devens	**Work Order(s):**	2024 Spring LTM
Facility Location:	Devens, MA, USA	**Area:**	AOC 50
Field Technician:	Eli Nauda, Frank Martinez, Connor Rosenbaum	**Equipment:**	Water Level Meter

Location	Date	Time	Scope of Work Completed?	Depth to Water(ft bmp)	Total Depth (ft bmp)	Comments
G6M-02-01X	04-22-2024	14:10	Yes	50.52	--	
G6M-02-03X	04-22-2024	10:11	Yes	54.7	103.84	
G6M-02-04X	04-22-2024	10:02	Yes	56.65	106.5	
G6M-02-06X	04-22-2024	13:35	Yes	4.64	67.15	
G6M-02-07X	04-22-2024	13:43	Yes	5.7	40.61	
G6M-02-08X	04-22-2024	15:01	Yes	9.52	72	
G6M-02-11X	04-22-2024	14:44	Yes	56.95	136.75	
G6M-02-12X	04-22-2024	14:27	Yes	55.7	134.9	
G6M-02-13X	04-22-2024	10:53	Yes	55.73	119.66	
G6M-03-07X	04-22-2024	10:34	Yes	52.83	88.25	
G6M-03-08X	04-22-2024	13:11	Yes	52.03	139.71	
G6M-03-09X	04-22-2024	13:52	Yes	52.27	141.6	
G6M-03-10X	04-22-2024	14:02	Yes	59.1	137.35	
G6M-04-01X	04-22-2024	13:05	Yes	48.64	90.55	
G6M-04-02X	04-22-2024	12:38	Yes	56.15	92.3	
G6M-04-03X	04-22-2024	12:55	Yes	53.04	93	
G6M-04-04X	04-22-2024	10:29	Yes	54.06	104.18	
G6M-04-05X	04-22-2024	14:19	Yes	51.55	112.48	
G6M-04-06X	04-22-2024	14:29	Yes	58.57	106.03	
G6M-04-07X	04-22-2024	15:10	Yes	58.2	131.98	
G6M-04-08X	04-25-2024	14:17	Yes	5.61	92.4	
G6M-04-09X	04-22-2024	13:51	Yes	27.86	66.36	
G6M-04-10A	04-22-2024	11:20	Yes	8.78	42.3	
G6M-04-10X	04-22-2024	15:37	Yes	9.55	63.45	
G6M-04-11X	04-22-2024	14:34	Yes	15.68	46.95	
G6M-04-13X	04-22-2024	15:26	Yes	10.54	42	
G6M-04-14X	04-25-2024	14:07	Yes	6.61	92.75	
G6M-04-15X	04-22-2024	13:42	Yes	38.49	81.05	
G6M-04-22X	04-22-2024	13:21	Yes	42.21	85.49	
G6M-04-31X	04-22-2024	13:34	Yes	42.05	80.17	
G6M-07-01X	04-22-2024	14:02	Yes	50.02	95.1	
G6M-07-02X	04-22-2024	10:06	Yes	9.67	30	
G6M-13-01X	04-22-2024	15:28	Yes	60.04	138.2	
G6M-13-02X	04-22-2024	11:01	Yes	56.01	125.1	
G6M-13-03X	04-22-2024	10:43	Yes	54.22	90.3	
G6M-13-04X	04-22-2024	15:21	Yes	59.21	138.5	
G6M-13-05X	04-22-2024	14:25	Yes	10.56	56.66	
G6M-13-06X	04-22-2024	14:44	Yes	10	62.1	
G6M-18-01	04-22-2024	11:14	Yes	56.89	125.85	
G6M-18-02	04-22-2024	15:46	Yes	62.5	137.6	
G6M-95-19X	04-22-2024	15:13	Yes	8.5	58.65	
G6M-95-20X	04-22-2024	15:20	Yes	18.95	25	
G6M-96-22A	--	--	No	--	--	Wooded area flooded / standing water, did not gauge
G6M-96-22B	--	--	No	--	--	Wooded area flooded / standing water, did not gauge
G6M-97-05B	04-22-2024	15:36	Yes	61.77	138.59	
G6M-97-28X	04-22-2024	10:20	Yes	57.49	107.17	
G6P-97-05X	04-22-2024	16:07	Yes	22.84	44.45	

Gauging Log

Client:	USACE	**Date(s):**	04-22-2024 and 04-25-2024
Facility:	Devens	**Work Order(s):**	2024 Spring LTM
Facility Location:	Devens, MA, USA	**Area:**	AOC 50
Field Technician:	Eli Nauda, Frank Martinez, Connor Rosenbaum	**Equipment:**	Water Level Meter

Location	Date	Time	Scope of Work Completed?	Depth to Water(ft bmp)	Total Depth (ft bmp)	Comments
MW-3	04-22-2024	15:00	Yes	58.55	137.4	
MW-7	04-22-2024	15:10	Yes	57.62	135.73	
XSA-12-95X	04-22-2024	16:04	Yes	63.51	136.6	
XSA-12-96X	04-22-2024	16:09	Yes	64.9	130.35	
XSA-12-97X	04-22-2024	16:18	Yes	64.46	145.81	
XSA-12-98X	04-22-2024	16:15	Yes	4.53	73.17	

Groundwater Sampling Form

Project Number	30167457	**Well ID**	G6M-04-02X			**Date**	4/23/2024
Project Name/Location	Spring 2024 LTM		**Weather(°F)**	48.0 degrees F and Clear. The wind is blowing S at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	56.01	**Total Depth (ft-bmp)**	90	**Water Column (ft)**	33.99	**Gallons in Well**	5.52
Purge Start	09:25	**Pump Intake (ft-bmp)**	88	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	10:38	**Volumes Purged**	0.77	**Sample ID**	G6M-04-02X-SPR24-LTM	**Sampled by**	Franklin Martinez Guerra
Sample Time	10:20	**Gallons Purged**	4.24	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)		pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:30	0	0	220	56.40		5.85	1.604	21.9	2.45	11.9	-39.1	Clear	None
09:35	5	5	220	56.40		5.77	1.594	23.8	1.29	12.3	-48.5	Clear	None
09:40	5	10	220	56.40		5.74	1.577	47.7	1.06	12.6	-51.7	Clear	None
09:45	5	15	220	56.60		5.76	1.556	14.2	0.91	12.8	-61	Clear	None
09:50	3	20	220	56.60		5.76	1.546	14.3	0.86	12.8	-65.8	Clear	None
09:55	5	25	220	56.60		5.75	1.535	13.9	0.81	12.9	-69.5	Clear	None
10:00	5	30	220	56.60		5.73	1.563	14.2	0.75	12.9	-73.7	Clear	None
10:05	5	35	220	56.60		5.75	1.534	14	0.72	13	-79	Clear	None
10:10	5	40	220	56.60		5.76	1.515	14	0.71	13	-82	Clear	None
10:15	5	45	220	56.60		5.76	1.499	13	0.69	13.1	-84.5	Clear	None

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: By watch tower
Condition of Well: Good condition
Well Completion: Stick-up
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well: NA

Groundwater Sampling Form

Project Number	30167457	**Well ID**	G6M-04-07X			**Date**	4/22/2024
Project Name/Location	Spring 2024 LTM		**Weather(°F)**	46.9 degrees F and Clear. The wind is blowing N/NW at 11.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	58.10	**Total Depth (ft-bmp)**	130	**Water Column (ft)**	71.90	**Gallons in Well**	11.68
Purge Start	10:45	**Pump Intake (ft-bmp)**	128	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	12:17	**Volumes Purged**	0.62	**Sample ID**	G6M-04-07X-SPR24-LTM	**Sampled by**	Franklin Martinez Guerra
Sample Time	11:55	**Gallons Purged**	7.29	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)		pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
10:45	0	0	300	58.35		6.26	0.585	3.7	1.88	11.1	20.6	Clear	None
10:55	8	8	300	58.35		6.29	0.503	3.7	1.16	11.2	18.2	Clear	None
11:00	5	15	300	58.35		6.31	0.552	6.3	1.01	11.3	20.2	Clear	None
11:05	5	20	300	58.35		6.34	0.508	5.8	0.93	11.4	16.4	Clear	None
11:10	5	25	300	58.40		6.35	0.497	3.86	0.88	11.5	11.6	Clear	None
11:15	5	30	300	58.40		6.35	0.489	3.8	0.84	11.6	9.2	Clear	None
11:20	5	35	300	58.40		6.35	0.486	9.2	0.82	11.7	7.6	Clear	None
11:25	5	40	300	58.40		6.35	0.485	3.84	0.8	11.7	6.1	Clear	None
11:30	5	45	300	58.40		6.35	0.403	3.9	0.78	11.9	5.3	Clear	None
11:35	5	50	300	58.40		6.35	0.482	3.9	0.77	11.8	5.1	Clear	None
11:40	5	55	300	58.40		6.35	0.478	3.9	0.75	12	4.6	Clear	None
11:45	5	60	300	58.40		6.35	0.475	3.9	0.74	11.9	4.4	Clear	None

Constituent Sampled	Container	Number	Preservative
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: See map

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

Groundwater Sampling Form

Project Number	30167457	**Well ID**	G6M-04-10A			**Date**	4/22/2024
Project Name/Location	Spring 2024 LTM		**Weather(°F)**	50.0 degrees F and Clear. The wind is blowing NW at 11.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	8.78	**Total Depth (ft-bmp)**	42.3	**Water Column (ft)**	33.52	**Gallons in Well**	5.45
Purge Start	12:25	**Pump Intake (ft-bmp)**	40	**Purge Method**	Low-Flow	**Purge Equipment**	Bladder
Purge End	14:38	**Volumes Purged**	1.29	**Sample ID**	G6-04-10A-SPR24-LTM	**Sampled by**	Diane Champagne
Sample Time	13:15	**Gallons Purged**	7.02	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallon Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:30	0	0	200	8.78	0.00	6.56	0.22	7.73	2.2	11.9	27.9	Orange	Medium
12:35	5	5	200	878.00	0.00	6.53	0.2	6.96	2.44	11.9	4.3	Orange	Medium
12:40	5	10	200	878.00	0.00	6.54	0.19	7.01	2.51	12	-7.4	Orange	Medium
12:45	5	15	200	878.00	0.00	6.54	0.189	16.74	2.72	11.9	-15.1	Orange	Medium
12:50	5	20	200	8.78	0.00	6.55	0.19	8.54	2.81	12	-18.5	Orange	Medium
12:55	5	25	200	8.78	0.00	6.55	0.193	5.54	2.3	12.3	-20	Orange	Medium
13:00	5	30	200	8.78	0.00	6.55	0.195	4.89	2.76	12.5	-21.3	Orange	Medium
13:05	5	35	200	8.78	0.00	6.56	0.196	4.76	2.8	12.7	-22.2	Orange	Medium
13:10	5	40	200	8.78	0.00	6.57	0.197	4.58	2.6	12.4	-23	Orange	Medium

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: Near collapsed rotting building to the left of gazebo

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: 2006

Groundwater Sampling Form

Location ID:	G6M-07-02X	**Date(s):**	2024-04-22	**Work Order(s):**		Spring 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:46.71 °F, rH:32%, Clouds: 0%, Wind:11.5mph N-NW			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	23.00-28.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	9.67	**Total Depth (ft-bmp):**	30	**Water Column(ft):**	20.33	**Liters in Well:**	12.56
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	28	**Purge Method:**	Low Flow	**Purging Equipment:**	Peristaltic Pump
Purge Start Time:	10:00	**Total Volume Purged (liters):**	1.25	**Sample ID:**	G6M-07-02X-SPR24-LTM	**Sample Time:**	10:50
Purge End Time:	10:52	**Well Volumes Purged (total):**	0.10	**Replicate/ Code No.**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / 19F103281
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
10:10	0	100	mL/min	10.41	6.74	0.231	6.35	1.33	9.4	17.5	Clear	No Odor
10:15	5	100	mL/min	10.77	6.7	0.214	51.08	0.95	9.4	-12	Clear	No Odor
10:21	11	100	mL/min	10.97	6.67	0.208	9.74	0.1	9.3	-25.6	Clear	No Odor
10:25	15	100	mL/min	11.21	6.67	0.205	109.9	0.73	9.2	-31.7	Clear	No Odor
10:30	20	100	mL/min	11.38	6.65	0.202	107.67	0.64	9.2	-36.6	Clear	No Odor
10:35	25	100	mL/min	10.53	6.67	0.201	96.77	0.63	9.4	-40.3	Clear	No Odor
10:40	30	100	mL/min	10.71	6.64	0.201	14.98	0.61	9.5	-44.2	Clear	No Odor
10:45	35	100	mL/min	10.83	6.64	0.201	14.06	0.59	9.6	-46.6	Clear	No Odor
10:50	40	100	mL/min	11.2	6.65	0.201	14.16	0.59	9.6	-49.4	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (SW9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: NoneSPR24LTM

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

Project Number	30167457	**Well ID**	G6M-13-01X			**Date**	4/23/2024
Project Name/Location	Spring 2024 LTM		**Weather(°F)**	63.0 degrees F and Clear. The wind is blowing S/SE at 12.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	60.21	**Total Depth (ft-bmp)**	135	**Water Column (ft)**	74.79	**Gallons in Well**	12.15
Purge Start	13:20	**Pump Intake (ft-bmp)**	130	**Purge Method**	Low-Flow	**Purge Equipment**	Bladder
Purge End	14:59	**Volumes Purged**	0.32	**Sample ID**	G6M-13-01X-SPR24-LTM	**Sampled by**	Diane Champagne
Sample Time	14:45	**Gallons Purged**	3.92	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallon Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
13:30	0	0	150	60.21	0.00	6.65	0.741	2.62	0.88	13.8	46.1	Gray	Mild
13:35	5	5	150	60.21	0.00	6.65	0.743	2.41	0.63	13.8	27.5	Gray	Mild
13:40	5	10	150	60.21	0.00	6.67	0.747	2.27	0.51	13.9	15.6	Gray	Mild
13:45	5	15	150	60.21	0.00	6.67	0.745	2.24	0.43	13.8	5.1	Gray	Mild
13:50	5	20	150	60.21	0.00	6.67	0.742	2.29	0.39	13.6	0.4	Gray	Mild
13:55	5	25	150	60.22	0.00	6.67	0.743	2.06	0.36	13.6	-4.8	Gray	Mild
14:00	5	30	150	60.22	0.00	6.67	0.745	6.93	0.32	13.9	-9.4	Gray	Mild
14:05	5	35	150	60.22	0.00	6.67	0.747	5.14	0.31	13.9	-11.1	Gray	Mild
14:10	5	40	150	60.22	0.00	6.67	0.749	5.52	0.28	14	-13.7	Gray	Mild
14:15	5	45	150	60.22	0.00	6.67	0.748	5.81	0.26	13.9	-15.8	Gray	Mild
14:20	5	50	150	60.21	0.00	6.67	0.749	2.72	0.25	13.9	-17.8	Gray	Mild
14:25	5	55	150	60.21	0.00	6.71	0.753	2.52	0.23	13.9	-15	Gray	Mild
14:30	5	60	150	60.21	0.00	6.67	0.754	1.42	0.23	14.1	-17	Gray	Mild
14:35	5	65	150	60.21	0.00	6.67	0.749	1.43	0.25	13.9	-18.8	Gray	Mild
14:40	5	70	150	60.22	0.00	6.67	0.749	1.06	0.23	13.9	-20.5	Gray	Mild

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: Near fence and access road

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: 2006

Groundwater Sampling Form

Project Number	30167457	**Well ID**	G6M-13-02X			**Date**	4/23/2024
Project Name/Location	Spring 2024 LTM		**Weather(°F)**	55.9 degrees F and Clear. The wind is blowing SE at 8.1 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	56.10	**Total Depth (ft-bmp)**	125	**Water Column (ft)**	68.90	**Gallons in Well**	11.20
Purge Start	11:20	**Pump Intake (ft-bmp)**	123	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	12:30	**Volumes Purged**	0.36	**Sample ID**	G6M-13-02X-SPR24-LTM	**Sampled by**	Franklin Martinez Guerra
Sample Time	12:10	**Gallons Purged**	4.07	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallon Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
11:25	0	0	220	56.10	0.00	6.26	1.3	2	1.28	15	-53.3	Clear	None
11:30	5	5	220	56.10	0.00	6.29	1.262	1.5	1.11	14.7	-54.4	Clear	None
11:35	5	10	220	56.10	0.00	6.3	1.244	0.4	0.95	14.8	-53.3	Clear	None
11:40	5	15	220	56.10	0.00	6.32	1.235	1.4	0.86	14.8	-55.3	Clear	None
11:45	5	20	220	56.10	0.00	6.33	1.228	3.2	0.81	14.8	-57.6	Clear	None
11:50	5	25	220	56.10	0.00	6.34	1.229	4.5	0.77	14.7	-60.4	Clear	None
11:55	5	30	220	56.10	0.00	6.35	1.22	3.2	0.74	14.7	-62.7	Clear	None
12:00	5	35	220	56.10	0.00	6.35	1.233	3.4	0.71	14.7	-64.3	Clear	None
12:05	5	40	220	56.10	0.00	6.35	1.237	3.2	0.7	14.8	-65.7	Clear	None

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: See map

Condition of Well: Good condition

Well Completion: Flush mount

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

Groundwater Sampling Form

Project Number	30167457	**Well ID**	G6M-13-05X			**Date**	4/22/2024
Project Name/Location	Spring 2024 LTM		**Weather(°F)**	54.0 degrees F and Clear. The wind is blowing W/NW at 15.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	10.65	**Total Depth (ft-bmp)**	55	**Water Column (ft)**	44.35	**Gallons in Well**	7.21
Purge Start	14:45	**Pump Intake (ft-bmp)**	50	**Purge Method**	Low-Flow	**Purge Equipment**	Bladder
Purge End	16:29	**Volumes Purged**	0.76	**Sample ID**	G6M-13-05X-SPR24-LTM	**Sampled by**	Diane Champagne
Sample Time	16:00	**Gallons Purged**	5.49	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallon Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
14:55	0	0	200	10.65	0.00	6.88	0.671	64.09	1.23	12.8	40.4	Orange	Medium
15:05	10	10	200	10.85	0.00	6.76	0.674	79.8	0.64	12.5	-23.2	Orange	Medium
15:10	5	15	200	10.88	0.00	6.73	0.67	83.05	0.52	12.2	-47	Orange	Medium
15:15	5	20	200	10.91	0.00	6.79	0.674	75.36	0.49	12.4	-54.8	Orange	Medium
15:20	5	25	200	10.91	0.00	6.8	0.672	79.47	0.46	12.2	-62.8	Orange	Medium
15:25	5	30	200	10.91	0.00	6.8	0.674	77.15	0.44	12.4	-67.1	Orange	Medium
15:30	5	35	200	10.91	0.00	6.8	0.671	43.55	0.42	12.3	-71.9	Orange	Medium
15:35	5	40	200	10.92	0.00	6.8	0.672	43.99	0.39	12.3	-76.4	Orange	Medium
15:45	10	50	200	10.92	0.00	6.8	0.669	50.47	0.38	12.2	-78.1	Orange	Medium
15:50	5	55	200	10.92	0.00	6.8	0.668	49.07	0.39	12.1	-78.6	Orange	Medium
15:55	5	60	200	10.92	0.00	6.79	0.668	51.81	0.37	12.2	-79.2	Orange	Medium

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: Next to parachute tower building

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: 2006

Groundwater Sampling Form

Project Number	30167457	**Well ID**	G6M-97-05B			**Date**	4/23/2024
Project Name/Location	Spring 2024 LTM		**Weather(°F)**	48.0 degrees F and Clear. The wind is blowing S at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	61.90	**Total Depth (ft-bmp)**	135	**Water Column (ft)**	73.10	**Gallons in Well**	11.88
Purge Start	11:05	**Pump Intake (ft-bmp)**	130	**Purge Method**	Low-Flow	**Purge Equipment**	Bladder
Purge End	12:43	**Volumes Purged**	0.33	**Sample ID**	G6M-97-05B-SPR24-LTM	**Sampled by**	Diane Champagne
Sample Time	12:25	**Gallons Purged**	3.88	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallon Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
11:10	0	0	150	61.90	0.00	6.72	0.744	214.9	1.02	13.6	-11.1	Yellow	Medium
11:15	5	5	150	61.90	0.00	674	0.753	227.1	0.69	14.1	-263	Yellow	Medium
11:20	5	10	150	61.92	0.00	6.74	0.771	75.21	0.55	13.9	-36.6	Yellow	Medium
11:25	5	15	150	61.92	0.00	6.76	0.779	12.21	0.45	13.8	-48.3	Yellow	Medium
11:30	5	20	150	61.92	0.00	6.78	0.789	12.84	0.38	13.6	-60.2	Yellow	Medium
11:35	5	25	150	61.92	0.00	6.78	0.811	11.52	0.32	13.9	-67.2	Yellow	Medium
11:40	5	30	150	61.92	0.00	6.79	0.82	11.73	0.3	13.8	-74.6	Yellow	Medium
11:45	5	35	150	61.92	0.00	6.8	0.832	11.44	0.28	13.9	-80.1	Yellow	Medium
11:50	5	40	150	61.92	0.00	6.8		10.92	0.27	14.1	-84.4	Yellow	Medium
11:55	5	45	150	61.92	0.00	6.79	0.877	10.13	0.28	14.1	-89	Yellow	Medium
12:01	6	51	150	61.92	0.00	6.8	0.866	10.81	0.25	14.1	-91.6	Yellow	Medium
12:05	4	55	150	61.92	0.00	6.81	0.841	10.4	0.24	14.1	-93.5	Yellow	Medium
12:10	5	60	150	61.92	0.00	6.81	0.863	9.99	0.22	14.1	-95	Yellow	Medium
12:15	5	65	150	61.92	0.00	6.81	0.865	9.82	0.21	14.1	-96.7	Yellow	Medium
12:20	5	70	150	61.92	0.00	6.81	0.875	9.27	0.21	14.1	-98.3	Yellow	Medium

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: Near access road and fence near runway
Condition of Well: Good condition
Well Completion: Stick-up
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well: 3753

Groundwater Sampling Form

Project Number	30167457	**Well ID**	XSA-12-96X			**Date**	4/22/2024
Project Name/Location	Spring 2024 LTM		**Weather(°F)**	53.1 degrees F and Clear. The wind is blowing W/NW at 17.2 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	1	**Well Casing Material**	Steel
Static Water Level (ft-bmp)	64.80	**Total Depth (ft-bmp)**	131	**Water Column (ft)**	66.20	**Gallons in Well**	2.69
Purge Start	14:00	**Pump Intake (ft-bmp)**	129	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	15:05	**Volumes Purged**	1.91	**Sample ID**	XSA-12-96X-SPR24-LTM	**Sampled by**	Franklin Martinez Guerra
Sample Time	14:55	**Gallons Purged**	5.15	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallon Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
14:05	0	0	300	64.80	0.00	7.56	0.808	56	3.55	12.7	-109.9	Clear	None
14:10	5	5	300	64.80	0.00	7.7	0.822	18.6	1.72	12.6	-160	Clear	None
14:15	5	10	300	64.80	0.00	7.78	0.823	12	1.36	12.5	-178.3	Clear	None
14:20	5	15	300	64.80	0.00	7.7	0.834	12	1.01	12.5	-198.5	Clear	None
14:25	5	20	300	64.80	0.00	7.25	0.898	13	0.92	12.7	-146	Clear	None
14:30	5	25	300	64.80	0.00	6.84	1.009	12	0.89	12.8	-80	Clear	None
14:35	5	30	300	64.80	0.00	6.66	1.075	13	0.87	12.8	-48.5	Clear	None
14:40	5	35	300	64.80	0.00	6.61	1.086	13	0.86	12.7	-38	Clear	None
14:45	5	40	300	64.80	0.00	6.59	1.089	12	0.85	12.6	-33	Clear	None
14:50	5	45	300	64.80	0.00	6.57	1.091	13	0.83	12.5	-32	Clear	None

Constituent Sampled	Container	Number	Preservative
Dissolved Metals	250 mL Plastic	1	HNO3
VOCs	40 mL Glass	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: See map
Condition of Well: Good condition
Well Completion: Stick-up
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well: NA

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME	Fort Devens - Spring 2024 LTM
PROJECT NUMBER	30167457
MODEL	YSI ProDSS
SERIAL NUMBER	
SAMPLER	Frank Martinez
DATE	04/23/2024

SINGLE POINT CALIBRATION

LOT NUMBER				
EXPIRATION DATE				
PARAMETERS	PRE-CALIBRATION	POST-CALIBRATION	SINGLE POINT CALIBRATION WITHIN RANGE	TIME
pH	7.14	7	yes	08:25
pH	4.1	4	yes	08:27
pH	10.1	10	yes	08:30
Conductivity	1.218	1.413	yes	08:35
ORP	246	231	yes	08:37
DO	98	100	yes	08:39

[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE QUALITY METER

NOTES:

SIGNED

4/23/2024
DATE

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME	Fort Devens - Spring 2024 LTM
PROJECT NUMBER	30167457
MODEL	YSI Pro Plus,YSI ProDSS
SERIAL NUMBER	19f103281
SAMPLER	Diane Champagne
DATE	04/23/2024

SINGLE POINT CALIBRATION

LOT NUMBER				
EXPIRATION DATE				
PARAMETERS	PRE-CALIBRATION	POST-CALIBRATION	SINGLE POINT CALIBRATION WITHIN RANGE	TIME
pH	4.01	4	yes	08:41
pH	7.13	7	yes	08:49
pH	9.83	9.98	yes	08:53
Conductivity	1.444	1.412	yes	08:25
ORP	242.4	240.3	yes	08:59
DO	99.9	99.9	yes	08:33
Turbidity	0.84	0	yes	08:28

[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE QUALITY METER

NOTES:

SIGNED

4/23/2024
DATE

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME	Fort Devens - Spring 2024 LTM
PROJECT NUMBER	30167457
MODEL	YSI ProDSS
SERIAL NUMBER	17E101955
SAMPLER	Connor Rosenbaum
DATE	04/23/2024

SINGLE POINT CALIBRATION

LOT NUMBER				
EXPIRATION DATE				
PARAMETERS	PRE-CALIBRATION	POST-CALIBRATION	SINGLE POINT CALIBRATION WITHIN RANGE	TIME
pH	4.34	4	yes	16:14
pH	6.82	7.02	yes	16:21
pH	10.08	10.03	yes	16:24
Conductivity	1.14	1.413	yes	16:27
ORP	250.9	231	yes	16:30
DO	0	0	yes	16:32

[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE QUALITY METER

NOTES:

LaMotte calibrated

SIGNED

4/23/2024

DATE

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Gauging Log

Client:	USACE
Project Name/Location:	Fort Devens - Fall 2024 LTM
Date(s):	11-18-2024
Sampler(s):	Jonathan Kline, Casey Shultis, Allyson Fenton
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Remarks
G6M-02-01X	11-18-2024	15:06	55.41	94.23	
G6M-02-03X	11-18-2024	15:02	59.82	103.8	
G6M-02-04X	11-18-2024	11:49	61.71	106.47	
G6M-02-06X	11-18-2024	13:11	8.66	67.05	
G6M-02-07X	11-18-2024	14:09	9.8	40.55	
G6M-02-08X	11-18-2024	11:05	14.72	71.92	
G6M-02-11X	11-18-2024	10:03	61.88	137.78	
G6M-02-12X	11-18-2024	10:18	60.52	134.98	
G6M-02-13X	11-18-2024	11:58	60.75	119.55	
G6M-03-07X	11-18-2024	14:49	57.93	90.2	
G6M-03-08X	11-18-2024	11:23	56.86	139.5	
G6M-03-09X	11-18-2024	10:47	57.08	137.7	
G6M-03-10X	11-18-2024	11:38	63.94	127.2	
G6M-04-01X	11-18-2024	15:53	52.71	91.49	
G6M-04-02X	11-18-2024	11:33	61.11	92.3	
G6M-04-03X	11-18-2024	14:07	59.05	104.02	
G6M-04-04X	11-18-2024	15:28	59.16	104.1	
G6M-04-05X	11-18-2024	11:05	56.35	112.8	
G6M-04-06X	11-18-2024	12:49	62.87	106	
G6M-04-07X	11-18-2024	12:39	62.57	131.7	
G6M-04-08X	11-18-2024	10:14	8.37	92.45	
G6M-04-09X	11-18-2024	11:21	33.2	66.5	
G6M-04-10A	11-18-2024	11:10	14.17	41.91	
G6M-04-10X	11-18-2024	11:20	14.74	64.41	
G6M-04-11X	11-18-2024	12:45	20.74	46.72	
G6M-04-13X	11-18-2024	11:44	15.95	42	
G6M-04-14X	11-18-2024	10:08	9.52	92.8	
G6M-04-15X	11-18-2024	13:18	43.69	81.97	
G6M-04-22X	11-18-2024	13:03	47.21	86.48	
G6M-04-31X	11-18-2024	13:34	47.1	80.18	
G6M-07-01X	11-18-2024	15:37	55.92	95.05	
G6M-07-02X	11-18-2024	11:30	15.12	30.29	
G6M-13-01X	11-18-2024	14:10	64.94	136.7	
G6M-13-02X	11-18-2024	14:32	61.12	126.1	
G6M-13-03X	11-18-2024	15:35	59.1	90.25	
G6M-13-04X	11-18-2024	13:37	64.19	137.4	
G6M-13-05X	11-18-2024	12:09	15.67	56.66	
G6M-13-06X	11-18-2024	12:01	15.14	62.08	
G6M-18-01	11-18-2024	12:16	61.88	125.85	
G6M-18-02	11-18-2024	12:25	66.97	135.9	
G6M-95-19X	11-18-2024	12:33	13.84	59.69	
G6M-95-20X	11-18-2024	12:26	14.49	25.04	

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Gauging Log

Client:	USACE
Project Name/Location:	Fort Devens - Fall 2024 LTM
Date(s):	11-18-2024
Sampler(s):	Jonathan Kline, Casey Shultis, Allyson Fenton
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Remarks
G6M-96-22A	11-18-2024	15:53	6.97	52.58	
G6M-96-22B	11-18-2024	15:56	7.21	71.98	
G6M-97-05B	11-18-2024	12:45	66.45	137.1	
G6M-97-28X	11-18-2024	11:43	62.57	107.15	
G6P-97-05X	11-18-2024	14:49	28.81	44.53	
MW-3	11-18-2024	12:56	63.51	137.39	
MW-7	11-18-2024	13:03	62.6	134.55	
XSA-12-95X	11-18-2024	--	--	--	Blockage at 14.2' (tubing stuck in well)
XSA-12-96X	11-18-2024	13:45	69.16	130.2	
XSA-12-97X	11-18-2024	--	--	--	Stuck pump obstructing well
XSA-12-98X	11-18-2024	15:11	3.3	72.9	

Groundwater Sampling Form

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Location ID:	G6M-02-01X	**Date(s):**	2024-11-08	**Work Order(s):**		Order #10 - Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:59.83 °F, rH:47%, Clouds: 0%, Wind:13.8mph W			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	80.00-95.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	55.21	**Total Depth (ft-bmp):**	95	**Water Column(ft):**	39.79	**Liters in Well:**	24.58
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	87.5	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	12:00	**Total Volume Purged (liters):**	15	**Sample ID:**	G6M-02-01X-FAL24	**Sample Time:**	13:20
Purge End Time:	13:17	**Well Volumes Purged (total):**	0.61	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
12:15	0	200	mL/min	55.21	6.56	1.339	36.13	1.49	14.7	-53	Clear	No Odor
12:20	5	200	mL/min	55.21	6.63	1.308	38.43	1.25	14.7	-76.5	Clear	No Odor
12:25	10	200	mL/min	55.21	6.67	1.304	56.93	1.11	14.8	-90.6	Clear	No Odor
12:30	15	200	mL/min	55.21	6.67	1.318	15.67	1.06	14.8	-94.8	Clear	No Odor
12:35	20	200	mL/min	55.21	6.67	1.326	15.77	1.04	14.7	-97.6	Clear	No Odor
12:40	25	200	mL/min	55.21	6.67	1.336	29.05	1	14.7	-100.9	Clear	No Odor
12:45	30	200	mL/min	55.21	6.65	1.331	35.61	0.99	14.7	-102.4	Clear	No Odor
12:50	35	200	mL/min	55.21	6.64	1.34	44.21	0.97	15.3	-103.5	Clear	No Odor
13:00	45	200	mL/min	55.21	6.63	1.392	29.12	1.05	17	-103.6	Clear	No Odor
13:05	50	200	mL/min	55.21	6.63	1.328	15.21	0.93	14.9	-104.3	Clear	No Odor
13:10	55	200	mL/min	55.21	6.63	1.317	14.71	0.92	14.7	-105	Clear	No Odor
13:15	60	200	mL/min	55.21	6.63	1.309	15.32	0.91	14.5	-105.7	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (SW9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

Location ID:	G6M-02-04X	**Date(s):**	2024-11-12	**Work Order(s):**		Order #10 - Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:47.05 °F, rH:54%, Clouds: 100%, Wind:24.16mph NW			**Field Technician:**		Allyson Fenton	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	90.00-105.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	61.66	**Total Depth (ft-bmp):**	106	**Water Column(ft):**	44.34	**Liters in Well:**	27.39
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	101	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	13:45	**Total Volume Purged (liters):**	7	**Sample ID:**	G6M-02-04X-FAL24	**Sample Time:**	14:20
Purge End Time:	14:20	**Well Volumes Purged (total):**	0.26	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Not Applicable / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
13:50	0	200	mL/min	61.6	6.75	0.345	2.93	0.79	12.3	-85.6	Clear	No Odor
13:55	5	200	mL/min	61.6	6.74	0.475	3.6	0.5	12.5	-101.8	Clear	No Odor
14:00	10	200	mL/min	61.6	6.76	0.571	6.18	0.4	12.8	-112.7	Clear	No Odor
14:05	15	200	mL/min	61.6	6.8	0.594	8.86	0.34	12.5	-120.9	Clear	No Odor
14:10	20	200	mL/min	61.6	6.81	0.611	14.38	0.29	12.9	-128	Clear	No Odor
14:15	25	200	mL/min	61.6	6.83	0.617	15.22	0.26	12.9	-131.8	Clear	No Odor
14:20	30	200	mL/min	61.6	6.84	0.615	14.34	0.23	12.6	-134.6	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: NA

Is Well in Good Condition? NA

Well Inspection Comments: NA

Groundwater Sampling Form

Location ID:	G6M-02-06X	**Date(s):**	2024-11-12	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:43.74 °F, rH:58%, Clouds: 6%, Wind:11.01mph NW			**Field Technician:**		Casey Shultis	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	55.00-65.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	8.39	**Total Depth (ft-bmp):**	65	**Water Column(ft):**	56.61	**Liters in Well:**	34.97
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	60	**Purge Method:**	Low Flow	**Purging Equipment:**	Not Applicable
Purge Start Time:	14:54	**Total Volume Purged (liters):**	5.2	**Sample ID:**	G6M-02-06X-FAL24	**Sample Time:**	15:30
Purge End Time:	15:20	**Well Volumes Purged (total):**	0.15	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Not Applicable,YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
15:00	0	200	mL/min	8.48	7.45	0.108	2.55	7.75	10.4	91.9	Clear	No Odor
15:05	5	200	mL/min	8.48	7.34	0.107	1.06	7.55	10.3	108.2	Clear	No Odor
15:10	10	200	mL/min	8.48	7.3	0.106	0.51	7.48	10.3	113.9	Clear	No Odor
15:15	15	200	mL/min	8.48	7.28	0.106	0	7.43	10.2	119.4	Clear	No Odor
15:20	20	200	mL/min	8.48	7.26	0.106	0	7.43	10.2	123.4	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

Location ID:	G6M-02-07X	**Date(s):**	2024-11-12	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:46.26 °F, rH:56%, Clouds: 75%, Wind:14.97mph N-NW			**Field Technician:**		Casey Shultis	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	30.00-40.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	8.78	**Total Depth (ft-bmp):**	40	**Water Column(ft):**	31.22	**Liters in Well:**	19.29
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	35	**Purge Method:**	Low Flow	**Purging Equipment:**	Not Applicable
Purge Start Time:	13:17	**Total Volume Purged (liters):**	3.06	**Sample ID:**	G6M-02-07X-FAL24	**Sample Time:**	14:00
Purge End Time:	13:51	**Well Volumes Purged (total):**	0.16	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Not Applicable,YSI Pro DSS / 17E101577
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
13:30	0	90	mL/min	9.8	7.73	0.267	0	1.71	11.5	109.5	Clear	No Odor
13:35	5	90	mL/min	9.85	7.67	0.235	0	1.46	11.4	108.1	Clear	No Odor
13:40	10	90	mL/min	9.8	7.64	0.225	0	1.3	11.3	105.7	Clear	No Odor
13:45	15	90	mL/min	9.8	7.63	0.222	4.97	1.22	11.1	103.2	Clear	No Odor
13:48	18	90	mL/min	9.78	7.63	0.22	2.16	1.18	10.9	100.7	Clear	No Odor
13:51	21	90	mL/min	9.79	7.62	0.218	0.86	1.15	10.8	98.1	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly:	yes
Is Well in Good Condition?	good
Well Inspection Comments:	NA

Groundwater Sampling Form

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Location ID:	G6M-02-08X	**Date(s):**	2024-11-13	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:44.01 °F, rH:35%, Clouds: 0%, Wind:6.91mph N			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	60.00-70.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	14.55	**Total Depth (ft-bmp):**	70	**Water Column(ft):**	55.45	**Liters in Well:**	34.26
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	65	**Purge Method:**	Low Flow	**Purging Equipment:**	Peristaltic Pump
Purge Start Time:	12:50	**Total Volume Purged (liters):**	17.5	**Sample ID:**	G6M-02-08X-FAL24	**Sample Time:**	15:15
Purge End Time:	15:10	**Well Volumes Purged (total):**	0.51	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
13:10	0	125	mL/min	14.55	6.4	0.103	31.78	3.8	8.9	86.3	Clear	No Odor
13:15	5	125	mL/min	14.66	6.47	0.103	48.12	2.61	8.8	28.1	Clear	No Odor
13:20	10	125	mL/min	14.79	6.53	0.103	34.87	2.15	8.9	-9.7	Clear	No Odor
13:25	15	125	mL/min	15.09	6.57	0.102	26.79	1.93	8.5	-30.7	Clear	No Odor
13:31	21	125	mL/min	15.55	6.56	0.103	42.61	1.78	8.7	-46.6	Clear	No Odor
13:36	26	125	mL/min	15.99	6.58	0.103	57.2	1.7	8.8	-55.4	Clear	No Odor
13:40	30	125	mL/min	15.99	6.61	0.103	62.12	1.66	8.9	-50.9	Clear	No Odor
13:46	36	125	mL/min	15.99	6.59	0.103	10.65	1.58	9	-65.5	Clear	No Odor
13:50	40	125	mL/min	15.99	6.6	0.103	13.3	1.55	8.9	-68.7	Clear	No Odor
13:56	46	125	mL/min	15.98	6.61	0.102	12.96	1.52	8.6	-74.1	Clear	No Odor
14:00	50	125	mL/min	15.98	6.6	0.103	11.84	1.5	8.5	-73.5	Clear	No Odor
14:05	55	125	mL/min	14.99	6.61	0.102	8.12	1.47	8.5	-76.2	Clear	No Odor
14:10	60	125	mL/min	15.99	6.61	0.102	9.84	1.46	8.5	-77.3	Clear	No Odor
14:15	65	125	mL/min	15.99	6.63	0.102	7.96	1.43	8.4	-79.7	Clear	No Odor
14:20	70	125	mL/min	15.99	6.64	0.101	16.17	1.43	8.3	-81.4	Clear	No Odor
14:25	75	125	mL/min	15.98	6.67	0.101	13.95	1.41	8.3	-83.4	Clear	No Odor
14:30	80	125	mL/min	15.99	6.61	0.101	17.16	1.39	8.3	-81.4	Clear	No Odor
14:35	85	125	mL/min	15.99	6.64	0.101	7.57	1.37	8.3	-84	Clear	No Odor
14:40	90	125	mL/min	15.99	6.64	0.101	7.51	1.38	8.2	-82.7	Clear	No Odor
14:45	95	125	mL/min	16.98	6.62	0.101	6.43	1.36	8.2	-83.9	Clear	No Odor
14:50	100	125	mL/min	15.99	6.64	0.101	4.91	1.34	8.3	-85.1	Clear	No Odor
14:55	105	125	mL/min	15.99	6.65	0.101	5.7	1.34	8.4	-86.6	Clear	No Odor
15:00	110	125	mL/min	15.98	6.64	0.101	4.2	1.32	8.3	-86.1	Clear	No Odor
15:05	115	125	mL/min	15.98	6.63	0.101	3.95	1.32	8.3	-84.8	Clear	No Odor
15:10	120	125	mL/min	15.98	6.62	0.102	4.12	1.31	8.2	-85.1	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (SW9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3

Groundwater Sampling Form

TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: Purge water is effervescent, interferes with turbidity readings

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

Location ID:	G6M-02-11X	**Date(s):**	2024-11-07	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:63.99 °F, rH:50%, Clouds: 75%, Wind:17.27mph W-NW			**Field Technician:**		Casey Shultis	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	125.00-135.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	61.68	**Total Depth (ft-bmp):**	135	**Water Column(ft):**	73.32	**Liters in Well:**	45.3
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	130	**Purge Method:**	Low Flow	**Purging Equipment:**	Dedicated Bladder
Purge Start Time:	15:22	**Total Volume Purged (liters):**	4.9	**Sample ID:**	G6M-02-11X	**Sample Time:**	16:35
Purge End Time:	15:57	**Well Volumes Purged (total):**	0.11	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Not Applicable,YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
15:27	0	140	mL/min	61.68	7.06	0.56	4.27	9.97	14.7	101.4	Clear	No Odor
15:30	3	140	mL/min	61.68	6.75	0.573	4.27	7.09	14	-54.7	Clear	No Odor
15:33	6	140	mL/min	61.68	6.77	0.537	4.21	3.13	13.9	-83.1	Clear	No Odor
15:36	9	140	mL/min	61.68	6.76	0.504	4.29	2.43	13.7	-89.3	Clear	No Odor
15:39	12	140	mL/min	61.68	6.76	0.477	4.31	1.89	13.7	-94.4	Clear	No Odor
15:42	15	140	mL/min	61.68	6.77	0.458	4.18	1.67	13.4	-97.8	Clear	No Odor
15:45	18	140	mL/min	61.68	6.77	0.453	4.09	1.53	13.4	-99.7	Clear	No Odor
15:48	21	140	mL/min	61.68	6.78	0.451	4.22	1.39	13.4	-102.4	Clear	No Odor
15:51	24	140	mL/min	61.68	6.79	0.45	4.2	1.3	13.3	-104.7	Clear	No Odor
15:54	27	140	mL/min	61.68	6.8	0.449	4.06	1.23	13.1	-106.7	Clear	No Odor
15:57	30	140	mL/min	61.68	6.81	0.448	3.97	1.21	13.1	-108.5	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

Location ID:	G6M-02-12X	**Date(s):**	2024-11-08	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:53.1 °F, rH:63%, Clouds: 23%, Wind:4mph S-SW			**Field Technician:**		Casey Shultis	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	125.00-135.00	**Casing Diameter (in):**	2	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	54.76	**Total Depth (ft-bmp):**	135	**Water Column(ft):**	80.24	**Gallons in Well:**	13.08
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	130	**Purge Method:**	Low Flow	**Purging Equipment:**	Not Applicable
Purge Start Time:	10:39	**Total Volume Purged (gallons):**	2.54	**Sample ID:**	G6M-02-12X-FAL24	**Sample Time:**	12:00
Purge End Time:	11:56	**Well Volumes Purged (total):**	0.19	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Not Applicable,YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
10:50	0	66	mL/min	60.26	7.26	0.381	78.63	3.11	16.9	-35.6	Clear	No Odor
10:55	5	125	mL/min	60.26	7.16	0.391	63.41	2.18	16.8	-71.6	Clear	No Odor
11:00	10	125	mL/min	60.26	7.19	0.391	140.84	1.52	15.4	-93.7	Clear	No Odor
11:05	15	125	mL/min	60.26	7.19	0.396	37.14	1.24	15.3	-107.7	Clear	No Odor
11:10	20	125	mL/min	60.26	7.12	0.408	16.12	1.16	15.3	-115.4	Clear	No Odor
11:15	25	125	mL/min	60.26	7.06	0.424	9.37	1.12	15.1	-118.8	Clear	No Odor
11:20	30	125	mL/min	60.26	7.01	0.433	4.93	1.09	14.8	-119.5	Clear	No Odor
11:25	35	125	mL/min	60.26	6.99	0.44	2.49	1.07	14.7	-119.1	Clear	No Odor
11:30	40	125	mL/min	60.26	6.98	0.453	1.24	1.03	14.9	-119.3	Clear	No Odor
11:35	45	125	mL/min	60.26	6.98	0.461	0	1.02	14.6	-120.8	Clear	No Odor
11:40	50	125	mL/min	60.26	6.98	0.476	0	0.98	14.7	-121.8	Clear	No Odor
11:45	55	125	mL/min	60.26	6.97	0.5	0.07	0.94	14.9	-123.2	Clear	No Odor
11:50	60	125	mL/min	60.26	6.98	0.511	1.18	0.93	14.8	-124.2	Clear	No Odor
11:53	63	125	mL/min	60.26	6.98	0.52	2.37	0.92	14.7	-124.9	Clear	No Odor
11:56	66	125	mL/min	60.26	6.98	0.525	0.73	0.91	14.7	-125.4	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: The dedicated tubing had to be replaced, causing a delay between gauging and purge start.

Well Information:

Well Labeled Properly: no

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-02-13X	**Date(s):**	2024-11-12	**Work Order(s):**		Order #10 - Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:43.74 °F, rH:58%, Clouds: 6%, Wind:11.01mph NW			**Field Technician:**		Allyson Fenton	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	110.00-120.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	60.65	**Total Depth (ft-bmp):**	120	**Water Column(ft):**	59.35	**Liters in Well:**	36.67
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	115	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	15:05	**Total Volume Purged (liters):**	6.3	**Sample ID:**	G6M-02-13X-FAL24	**Sample Time:**	15:50
Purge End Time:	15:50	**Well Volumes Purged (total):**	0.17	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
15:10	0	140	mL/min	60.65	6.45	1.306	5.17	6.88	13.7	33	Clear	No Odor
15:15	5	140	mL/min	60.65	6.44	1.288	4.4	2.87	13.8	2.2	Clear	No Odor
15:20	10	140	mL/min	60.65	6.53	1.287	6.18	1.01	13.1	-27.7	Clear	No Odor
15:25	15	140	mL/min	60.65	6.57	1.319	4.46	0.76	13.2	-46.2	Clear	No Odor
15:30	20	140	mL/min	60.65	6.59	1.329	4.2	0.62	13.1	-56.4	Clear	No Odor
15:35	25	140	mL/min	60.65	6.6	1.334	4.88	0.58	13.2	-62.4	Clear	No Odor
15:40	30	140	mL/min	60.65	6.61	1.336	4.3	0.5	13.1	-67.4	Clear	No Odor
15:45	35	140	mL/min	60.65	6.61	1.337	4.9	0.46	13.1	-70.3	Clear	No Odor
15:50	40	140	mL/min	60.65	6.61	1.339	4.82	0.45	13.1	-72.1	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: Dedicated bladder pump in well

Well Information:

Well Labeled Properly: NA

Is Well in Good Condition? NA

Well Inspection Comments: NA

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Location ID:	G6M-03-07X	**Date(s):**	2024-11-14	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:43.83 °F, rH:23%, Clouds: 0%, Wind:8.05mph E-NE			**Field Technician:**		Casey Shultis	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	80.00-90.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	56.69	**Total Depth (ft-bmp):**	90	**Water Column(ft):**	33.31	**Liters in Well:**	20.58
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	85	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	13:26	**Total Volume Purged (liters):**	20	**Sample ID:**	G6M-03-07X-FAL24	**Sample Time:**	16:00
Purge End Time:	16:06	**Well Volumes Purged (total):**	0.97	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
13:35	0	125	mL/min	61.45	6.61	0.083	77.23	1.53	12.6	-57.4	Clear	No Odor
13:40	5	125	mL/min	61.45	6.4	0.188	77.63	1.27	12.6	-58.7	Clear	No Odor
13:45	10	125	mL/min	61.45	6.37	0.276	53.31	1.1	12.4	-67	Clear	No Odor
13:50	15	125	mL/min	61.45	6.35	0.355	46.92	1.03	12.3	-72.1	Clear	No Odor
13:55	20	125	mL/min	61.45	6.35	0.392	43.35	0.96	12.3	-76.6	Clear	No Odor
14:00	25	125	mL/min	61.45	6.36	0.409	52.45	0.91	12.5	-79.4	Clear	No Odor
14:05	30	125	mL/min	61.45	6.36	0.423	48.32	0.87	12.3	-81.5	Clear	No Odor
14:10	35	125	mL/min	61.45	6.37	0.433	39.41	0.84	12.2	-82.4	Clear	No Odor
14:15	40	125	mL/min	61.45	6.37	0.443	37.11	0.81	12.5	-83.7	Clear	No Odor
14:20	45	125	mL/min	61.45	6.37	0.444	26.54	0.8	12.5	-84.9	Clear	No Odor
14:25	50	125	mL/min	61.45	6.38	0.443	30.24	0.79	12.1	-85.6	Clear	No Odor
14:30	55	125	mL/min	61.45	6.37	0.452	39.47	0.78	12.3	-86.2	Clear	No Odor
14:35	60	125	mL/min	61.45	6.38	0.449	26.61	0.77	12.1	-86.7	Clear	No Odor
14:40	65	125	mL/min	61.45	6.38	0.454	20.76	0.76	12.5	-87.2	Clear	No Odor
14:45	70	125	mL/min	61.45	6.38	0.454	33.71	0.75	12.3	-87.7	Clear	No Odor
14:50	75	125	mL/min	61.45	6.38	0.452	14.48	0.74	12.3	-88	Clear	No Odor
14:53	78	125	mL/min	61.45	6.38	0.456	21.23	0.73	12.3	-88.3	Clear	No Odor
14:56	81	125	mL/min	61.54	6.38	0.458	27.63	0.73	12.3	-88.6	Clear	No Odor
14:59	84	125	mL/min	61.54	6.38	0.457	35.46	0.73	12.3	-88.6	Clear	No Odor
15:02	87	125	mL/min	61.45	6.38	0.46	31.92	0.72	12.4	-89	Clear	No Odor
15:05	90	125	mL/min	61.45	6.38	0.457	36.88	0.72	12.2	-89	Clear	No Odor
15:08	93	125	mL/min	61.45	6.39	0.456	41.64	0.72	12.2	-89.3	Clear	No Odor
15:11	96	125	mL/min	61.45	6.39	0.454	42.44	0.72	12.1	-89.6	Clear	No Odor
15:14	99	125	mL/min	61.45	6.39	0.453	45.96	0.72	12	-89.7	Clear	No Odor
15:20	105	125	mL/min	61.45	6.4	0.44	33.61	0.83	11.5	-87	Clear	No Odor
15:23	108	125	mL/min	64.5	6.38	0.465	61.48	0.91	13	-84.2	Clear	No Odor
15:26	111	125	mL/min	61.5	6.38	0.467	33.03	0.79	12.6	-84.9	Clear	No Odor
15:29	114	125	mL/min	61.5	6.4	0.451	10.76	0.73	12.2	-86.7	Clear	No Odor
15:32	117	125	mL/min	61.5	6.4	0.447	11.27	0.72	12.1	-87.3	Clear	No Odor
15:36	121	125	mL/min	61.5	6.4	0.456	16.93	6.6	12.1	-88.1	Clear	No Odor
15:39	124	125	mL/min	61.5	6.4	0.455	30.29	0.7	12.2	-88.4	Clear	No Odor
15:42	127	125	mL/min	61.5	6.4	0.458	6.45	0.7	12.2	-88.7	Clear	No Odor
15:45	130	125	mL/min	61.5	6.4	0.459	6.71	0.69	12.2	-88.9	Clear	No Odor
15:48	133	125	mL/min	61.5	6.4	0.46	9.58	0.69	12	-89.2	Clear	No Odor
15:51	136	125	mL/min	61.5	6.4	0.46	25.44	0.69	12.1	-89.2	Clear	No Odor
15:54	139	125	mL/min	61.5	6.4	0.461	20.68	0.69	12	-89.4	Clear	No Odor

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15:57	142	125	mL/min	61.5	6.39	0.461	26.97	0.69	12	-89.4	Clear	No Odor
16:00	145	125	mL/min	61.5	6.39	0.464	21.34	0.69	12	-89.3	Clear	No Odor
16:03	148	125	mL/min	61.5	6.39	0.464	22.72	0.69	12	-89.5	Clear	No Odor
16:06	151	125	mL/min	61.5	6.39	0.465	23.22	0.69	12	-89.6	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (SW9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: Nitrogen tank swapped out between reads at 15:15 and 15:20

Well Information:

Well Labeled Properly: NA

Is Well in Good Condition? NA

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-03-08X	**Date(s):**	2024-11-08	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:60.6 °F, rH:45%, Clouds: 0%, Wind:13.8mph W			**Field Technician:**		Casey Shultis	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	125.00-140.00	**Casing Diameter (in):**	2	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	59.49	**Total Depth (ft-bmp):**	140	**Water Column(ft):**	80.51	**Gallons in Well:**	13.12
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	127.5	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	13:04	**Total Volume Purged (gallons):**	2.61	**Sample ID:**	G6M-03-08X-FAL24	**Sample Time:**	13:55
Purge End Time:	13:51	**Well Volumes Purged (total):**	0.2	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Not Applicable / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
13:10	0	210	mL/min	56.36	7.36	0.171	7.21	2.71	12.5	9.1	Clear	No Odor
13:15	5	210	mL/min	56.36	7.3	0.175	5.58	2.16	12.6	-16.4	Clear	No Odor
13:20	10	210	mL/min	56.36	7.09	0.216	4.84	12	12.7	-44.7	Clear	No Odor
13:25	15	210	mL/min	56.47	6.87	0.359	1.18	1.65	12.5	-68.9	Clear	No Odor
13:30	20	210	mL/min	56.4	6.91	0.363	0	1.65	12.5	-76.9	Clear	No Odor
13:35	25	210	mL/min	56.36	6.92	0.364	0	1.55	12.2	-81.7	Clear	No Odor
13:40	30	210	mL/min	56.36	6.93	0.368	0	1.39	12.5	-84.9	Clear	No Odor
13:45	35	210	mL/min	56.36	6.93	0.364	0	1.39	12.4	-85.5	Clear	No Odor
13:50	40	210	mL/min	56.36	6.93	0.371	0	1.29	12.3	-86.4	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly:	yes
Is Well in Good Condition?	poor
Well Inspection Comments:	NA

Groundwater Sampling Form

Location ID:	G6M-03-10X	**Date(s):**	2024-11-13	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:45.16 °F, rH:28%, Clouds: 0%, Wind:5.99mph N			**Field Technician:**		Casey Shultis	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	120.00-135.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	61.15	**Total Depth (ft-bmp):**	135	**Water Column(ft):**	73.85	**Liters in Well:**	45.62
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	127.5	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	14:13	**Total Volume Purged (liters):**	3.76	**Sample ID:**	G6M-03-10X	**Sample Time:**	15:00
Purge End Time:	15:00	**Well Volumes Purged (total):**	0.08	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Not Applicable / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
14:20	0	80	mL/min	62.3	6.82	0.684	14.83	4.03	11.1	-22.7	Clear	No Odor
14:25	5	80	mL/min	62.3	6.79	0.609	12.4	2.36	11.1	-72.7	Clear	No Odor
14:30	10	80	mL/min	62.3	6.8	0.585	12.23	1.97	10.9	-78.3	Clear	No Odor
14:35	15	80	mL/min	62.3	6.81	0.599	9.47	1.74	10.9	-83.6	Clear	No Odor
14:40	20	80	mL/min	62.3	6.83	0.61	5.19	1.56	10.9	-89.6	Clear	No Odor
14:45	25	80	mL/min	62.3	6.84	0.613	4.96	1.48	10.9	-92.1	Clear	No Odor
14:50	30	80	mL/min	62.3	6.85	0.615	2.46	1.4	10.9	-94.2	Clear	No Odor
14:55	35	80	mL/min	62.3	6.85	0.617	1.98	1.33	10.9	-95.7	Clear	No Odor
15:00	40	80	mL/min	62.3	6.86	0.619	4.12	1.3	10.9	-97.1	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly:	yes
Is Well in Good Condition?	good
Well Inspection Comments:	NA

Groundwater Sampling Form

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Location ID:	G6M-04-01X	**Date(s):**	2024-11-08	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:60.53 °F, rH:45%, Clouds: 0%, Wind:21.85mph W			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	82.00-92.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	53.43	**Total Depth (ft-bmp):**	92	**Water Column(ft):**	38.57	**Liters in Well:**	23.83
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	87	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	13:55	**Total Volume Purged (liters):**	10	**Sample ID:**	G6M-04-01X-FAL24	**Sample Time:**	14:50
Purge End Time:	14:47	**Well Volumes Purged (total):**	0.42	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
14:00	0	200	mL/min	53.43	6.61	1.725	16.55	2.73	14.8	-80.3	Clear	No Odor
14:05	4	200	mL/min	53.43	6.7	1.925	36.29	1.49	14.3	-96.5	Clear	No Odor
14:10	9	200	mL/min	53.43	6.73	2.081	60.2	1.27	14.2	-105	Clear	No Odor
14:20	20	200	mL/min	53.43	6.76	2.172	56.18	1.08	14.2	-113.1	Clear	No Odor
14:25	25	200	mL/min	53.43	6.77	2.201	59.81	1.03	14.2	-117	Clear	No Odor
14:30	30	200	mL/min	53.43	6.77	2.217	13.26	0.96	14.1	-120.1	Clear	No Odor
14:35	35	200	mL/min	53.43	6.76	2.234	16.92	0.9	14	-122.4	Clear	No Odor
14:40	40	200	mL/min	53.43	6.76	2.239	16.83	0.89	14	-122.7	Clear	No Odor
14:45	45	200	mL/min	53.43	6.75	2.247	16.08	0.86	14	-123.3	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly:	yes
Is Well in Good Condition?	good
Well Inspection Comments:	NA

Groundwater Sampling Form

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Location ID:	G6M-04-02X	**Date(s):**	2024-11-07	**Work Order(s):**			Order #10 - Fall 2024 LTM
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	64 cloudy, wind 12 mph WSW.			**Field Technician:**			Spencer Gust
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	80.00-90.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	78.95	**Total Depth (ft-bmp):**	90	**Water Column(ft):**	11.05	**Liters in Well:**	6.83
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	88	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	10:35	**Total Volume Purged (liters):**	8	**Sample ID:**	G6M-04-02X-FAL24	**Sample Time:**	11:16
Purge End Time:	11:16	**Well Volumes Purged (total):**	1.17	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
10:40	0	200	mL/min	78.95	6.77	1.813	149.33	2.74	13.8	4.8	Clear	No Odor
10:45	5	200	mL/min	78.95	5.63	1.825	125.3	1.6	13.6	8.5	Clear	No Odor
10:50	10	200	mL/min	78.95	5.66	1.816	80.52	1.18	13.7	1.4	Clear	No Odor
10:55	15	200	mL/min	78.95	5.67	1.804	35.6	0.97	13.9	-3.6	Clear	No Odor
11:00	20	200	mL/min	78.95	5.68	1.801	236.24	0.8	14	-8	Clear	No Odor
11:05	25	200	mL/min	78.95	5.68	1.805	100.13	0.84	14	-12	Clear	No Odor
11:10	30	200	mL/min	78.95	5.69	1.8	98.39	0.8	14.1	-17	Clear	No Odor
11:15	35	200	mL/min	78.95	5.71	1.801	95.53	0.76	13.9	-21.1	Clear	No Odor

Constituent Sampled	Container	Number	Volume	Preservative
Anions (E353.2)	Amber Glass	1	500 mL	H2SO4
Anions (SW9034)	Plastic	2	250 mL	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	125 mL	None
Gases (RSK175)	Clear Glass	3	40 mL	HCl
GenChem (A2320)	Plastic	1	250 mL	None
Metals (SW6010)	Plastic	1	250 mL	HNO3
Metals (SW6020)	Plastic	1	250 mL	HNO3
TOC (SW9060)	Plastic	1	250 mL	HNO3
VOCs (8260)	Clear Glass	3	40 mL	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-04-03X	**Date(s):**	2024-11-14	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:34.7 °F, rH:45%, Clouds: 0%, Wind:6.91mph N-NE			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	85.00-95.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	57.87	**Total Depth (ft-bmp):**	95	**Water Column(ft):**	37.13	**Liters in Well:**	22.94
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	90	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	09:00	**Total Volume Purged (liters):**	19	**Sample ID:**	G6M-04-03X-FAL24	**Sample Time:**	10:40
Purge End Time:	10:35	**Well Volumes Purged (total):**	0.83	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
09:05	0	200	mL/min	57.87	8.32	1.452	10.2	4.74	11.4	78	Clear	No Odor
09:16	11	200	mL/min	57.87	7.34	0.942	15.8	1.87	11.6	-131.2	Clear	No Odor
09:21	16	200	mL/min	57.87	7.18	0.729	30.96	1.69	11.6	-130.5	Clear	No Odor
09:26	21	200	mL/min	57.87	7.11	0.541	53.56	1.51	11.9	-131	Clear	No Odor
09:30	25	200	mL/min	57.86	7.1	0.469	63.23	1.46	11.9	-131.4	Clear	No Odor
09:35	30	200	mL/min	57.86	7.07	0.386	89.01	1.33	12.2	-131.8	Clear	No Odor
09:40	35	200	mL/min	57.86	7.04	0.36	126.29	1.28	11.9	-131.4	Clear	No Odor
09:45	40	200	mL/min	57.86	7.02	0.352	165.65	1.23	11.7	-131.4	Clear	No Odor
09:50	45	200	mL/min	57.86	7	0.34	153.13	1.16	12.1	-131.8	Clear	No Odor
09:56	51	200	mL/min	57.86	7	0.337	103.83	1.12	12.1	-132.7	Clear	No Odor
10:00	55	200	mL/min	57.86	7	0.331	103.67	1.1	12.1	-133.5	Clear	No Odor
10:05	60	200	mL/min	57.86	7	0.316	40.78	1.07	12.1	-134.4	Clear	No Odor
10:10	65	200	mL/min	57.87	6.99	0.304	39.98	1.04	12.1	-134.9	Clear	No Odor
10:25	80	200	mL/min	57.87	6.97	0.301	21.1	0.98	12.2	-136.1	Clear	No Odor
10:30	85	200	mL/min	57.86	6.96	0.301	21.09	0.96	12.3	-136.9	Clear	No Odor
10:35	90	200	mL/min	57.86	6.96	0.301	21.16	0.95	12.5	-137.7	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (SW9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Groundwater Sampling Form

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Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-04-04X	**Date(s):**	2024-11-14	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:41.34 °F, rH:28%, Clouds: 0%, Wind:5.75mph N			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	94.00-104.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	59.04	**Total Depth (ft-bmp):**	104	**Water Column(ft):**	44.96	**Liters in Well:**	27.78
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	99	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	12:10	**Total Volume Purged (liters):**	13	**Sample ID:**	G6M-04-04X-FAL24	**Sample Time:**	13:20
Purge End Time:	13:17	**Well Volumes Purged (total):**	0.47	**Replicate ID:**	**Duplicate** / AOC50-DUP01-FAL24	**Water Quality Meter/ ID:**	YSI Pro DSS / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
12:15	0	200	mL/min	59.04	6.38	1.285	22.69	5.03	12.8	44.7	Clear	No Odor
12:20	5	200	mL/min	59.04	6.49	1.464	37.75	2.86	12.8	10.5	Clear	No Odor
12:25	10	200	mL/min	59.04	6.55	1.479	33.42	1.9	12.4	-32.6	Clear	No Odor
12:30	15	200	mL/min	59.04	6.57	1.454	50.12	1.62	12.5	-50	Clear	No Odor
12:35	20	200	mL/min	59.04	6.57	1.459	38.15	1.59	12.6	-51.2	Clear	No Odor
12:40	25	200	mL/min	59.04	6.57	1.461	47.09	1.44	12.3	-59.5	Clear	No Odor
12:45	30	200	mL/min	59.04	6.57	1.479	18.31	1.33	12.4	-64.9	Clear	No Odor
12:50	35	200	mL/min	59.04	6.56	1.498	8.34	1.26	12.3	-69.5	Clear	No Odor
12:56	41	200	mL/min	59.04	6.55	1.522	9.22	1.19	12.3	-73.8	Clear	No Odor
13:00	45	200	mL/min	59.04	6.54	1.527	7.68	1.16	12.4	-76.7	Clear	No Odor
13:05	50	200	mL/min	59.04	6.55	1.508	7.19	1.12	11.9	-80.1	Clear	No Odor
13:10	55	200	mL/min	59.04	6.54	1.53	7.88	1.09	11.9	-81.8	Clear	No Odor
13:15	60	200	mL/min	59.04	6.54	1.542	7.7	1.08	12.1	-82.6	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	4	HNO3
VOCs (8260)	Clear Glass	6	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-04-05X	**Date(s):**	2024-11-08	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:60.08 °F, rH:45%, Clouds: 0%, Wind:21.85mph W-NW			**Field Technician:**		Casey Shultis	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	100.00-110.00	**Casing Diameter (in):**	2	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	55.91	**Total Depth (ft-bmp):**	110	**Water Column(ft):**	54.09	**Gallons in Well:**	8.82
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	105	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	14:13	**Total Volume Purged (gallons):**	1.71	**Sample ID:**	G6M-04-05X-FAL24	**Sample Time:**	15:05
Purge End Time:	15:01	**Well Volumes Purged (total):**	0.19	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
14:20	0	135	mL/min	56.06	6.45	0.097	7.21	1.55	12.2	56.3	Clear	No Odor
14:25	5	135	mL/min	56.06	6.4	0.96	6.56	1.26	12.2	78.4	Clear	No Odor
14:30	10	135	mL/min	56.06	6.38	0.096	6.93	1.14	12.1	88.7	Clear	No Odor
14:35	15	135	mL/min	56.06	6.37	0.095	6.46	1.08	12.2	95.1	Clear	No Odor
14:40	20	135	mL/min	56.06	6.36	0.095	4.47	1.03	12.2	101.2	Clear	No Odor
14:45	25	135	mL/min	56.06	6.35	0.095	6.41	1.01	12.1	106.1	Clear	No Odor
14:50	30	135	mL/min	56.06	6.34	0.095	3.06	0.97	12.1	110	Clear	No Odor
14:55	35	135	mL/min	56.06	6.33	0.095	2.09	0.96	12.1	113.7	Clear	No Odor
15:00	40	135	mL/min	56.06	6.32	0.095	2.03	0.94	12.1	116.7	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-04-06X	**Date(s):**	2024-11-11	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:65.16 °F, rH:53%, Clouds: 40%, Wind:16.11mph W-SW			**Field Technician:**		Casey Shultis	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	95.00-105.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	62.66	**Total Depth (ft-bmp):**	105	**Water Column(ft):**	42.34	**Liters in Well:**	26.16
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	100	**Purge Method:**	Low Flow	**Purging Equipment:**	Not Applicable
Purge Start Time:	12:41	**Total Volume Purged (liters):**	6.565	**Sample ID:**	G6M-04-06X-FAL24	**Sample Time:**	14:30
Purge End Time:	14:22	**Well Volumes Purged (total):**	0.25	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Not Applicable,YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
12:50	0	65	mL/min	62.72	6.81	0.145	10.35	7.02	15.3	199.3	Clear	No Odor
12:55	5	65	mL/min	62.71	6.78	0.146	5.71	6.99	15.5	201.8	Clear	No Odor
13:00	10	65	mL/min	62.71	6.73	0.147	3.69	6.72	15.6	205	Clear	No Odor
13:05	15	65	mL/min	62.71	6.69	0.149	3.27	6.2	15.6	208.4	Clear	No Odor
13:10	20	65	mL/min	62.71	6.62	0.151	2.51	5.41	15.5	212.1	Clear	No Odor
13:15	25	65	mL/min	62.71	6.56	0.153	2.89	4.36	15.3	215.7	Clear	No Odor
13:20	30	65	mL/min	62.71	6.53	0.154	2.42	3.39	15.1	218.2	Clear	No Odor
13:25	35	65	mL/min	62.71	6.52	0.155	2.57	3.03	15.2	217.4	Clear	No Odor
13:30	40	65	mL/min	62.71	6.51	0.159	0.99	2.84	15.2	214	Clear	No Odor
13:35	45	65	mL/min	62.71	6.52	0.159	0.93	2.76	16	215.2	Clear	No Odor
13:40	50	65	mL/min	62.72	6.52	0.156	0.42	2.65	15.5	217.1	Clear	No Odor
13:45	55	65	mL/min	62.72	6.51	0.156	0	2.56	15.5	218.4	Clear	No Odor
13:50	60	65	mL/min	62.71	6.51	0.159	0	2.66	16.4	218.9	Clear	No Odor
13:55	65	65	mL/min	62.71	6.51	0.159	0	2.67	15.9	218.9	Clear	No Odor
14:00	70	65	mL/min	62.71	6.5	0.156	0	2.35	15.1	220.1	Clear	No Odor
14:05	75	65	mL/min	62.71	6.48	0.158	0	1.99	15.8	219.8	Clear	No Odor
14:10	80	65	mL/min	62.72	6.48	0.159	0	1.84	16.1	219.3	Clear	No Odor
14:15	85	65	mL/min	62.72	6.48	0.161	0	1.74	16.4	217.8	Clear	No Odor
14:18	88	65	mL/min	62.71	6.48	0.162	0	1.68	16.6	216.9	Clear	No Odor
14:22	92	65	mL/min	62.71	6.48	0.161	0	1.61	16.4	215.5	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-04-07X	**Date(s):**	2024-11-11	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:57.85 °F, rH:77%, Clouds: 75%, Wind:10.36mph SW			**Field Technician:**		Casey Shultis	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	120.00-130.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	61.68	**Total Depth (ft-bmp):**	130	**Water Column(ft):**	68.32	**Liters in Well:**	42.21
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	125	**Purge Method:**	Low Flow	**Purging Equipment:**	Dedicated Bladder
Purge Start Time:	09:46	**Total Volume Purged (liters):**	3.95	**Sample ID:**	G6M-04-07X-FAL24	**Sample Time:**	11:10
Purge End Time:	11:06	**Well Volumes Purged (total):**	0.09	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
10:05	0	50	mL/min	62.52	6.48	0.374	0	4.55	15.5	29.2	Clear	No Odor
10:10	5	50	mL/min	62.52	6.51	0.346	0	2.75	15.8	15	Clear	No Odor
10:15	10	50	mL/min	62.52	6.53	0.33	0	2.51	15.8	19.2	Clear	No Odor
10:20	15	50	mL/min	62.52	6.57	0.299	0	2.12	15.7	34.9	Clear	No Odor
10:25	20	50	mL/min	62.52	6.57	0.29	0	1.84	16.3	50.8	Clear	No Odor
10:30	25	50	mL/min	62.53	6.58	0.289	0	1.72	17	62.5	Clear	No Odor
10:35	30	50	mL/min	62.52	6.59	0.288	0	1.68	17	70.7	Clear	No Odor
10:40	35	50	mL/min	62.52	6.6	0.286	0	1.58	17	78.8	Clear	No Odor
10:45	40	50	mL/min	62.52	6.61	0.287	0	1.53	17.1	86	Clear	No Odor
10:50	45	50	mL/min	62.52	6.62	0.287	0	1.46	17.3	92.6	Clear	No Odor
10:55	50	50	mL/min	62.52	6.62	0.29	0	1.41	17.8	97.6	Clear	No Odor
11:00	55	50	mL/min	62.52	6.63	0.293	0	1.38	18.1	101.5	Clear	No Odor
11:05	60	50	mL/min	62.52	6.64	0.293	0	1.37	17.9	104.5	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (SW9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

Location ID:	G6M-04-09X	**Date(s):**	2024-11-12	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:48.34 °F, rH:61%, Clouds: 0%, Wind:14.97mph N-NW			**Field Technician:**		Allyson Fenton	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	55.00-65.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	33.3	**Total Depth (ft-bmp):**	65	**Water Column(ft):**	31.7	**Liters in Well:**	19.58
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	60	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	09:55	**Total Volume Purged (liters):**	6	**Sample ID:**	G6M-04-09X-FAL24	**Sample Time:**	10:25
Purge End Time:	10:25	**Well Volumes Purged (total):**	0.31	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
10:00	0	200	mL/min	33.35	6.55	0.133	238	1.3	10.2	-62	Clear	No Odor
10:05	5	200	mL/min	33.37	6.68	0.144	94	0.31	10.2	-81.6	Clear	No Odor
10:10	10	200	mL/min	33.4	6.67	0.146	120	0.21	10.2	-93	Clear	No Odor
10:15	15	200	mL/min	33.43	6.68	0.145	184	0.17	10.1	-101.7	Clear	No Odor
10:20	20	200	mL/min	33.44	6.69	0.145	50.3	0.15	10	-107.5	Clear	No Odor
10:25	25	200	mL/min	34.9	6.68	0.146	42.1	0.15	10.1	-111.5	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (SW9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: NA

Is Well in Good Condition? NA

Well Inspection Comments: NA

Groundwater Sampling Form

Location ID:	G6M-04-10A	**Date(s):**	2024-11-08	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:52.75 °F, rH:65%, Clouds: 0%, Wind:9.22mph W-SW			**Field Technician:**		Elisabeth Arnold	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	30.00-40.00	**Casing Diameter (in):**	2	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	13.92	**Total Depth (ft-bmp):**	42.21	**Water Column(ft):**	28.29	**Gallons in Well:**	4.6
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	40	**Purge Method:**	Low-Flow	**Purging Equipment:**	Peristaltic
Purge Start Time:	09:14	**Total Volume Purged (gallons):**	2.65	**Sample ID:**	G6M-04-10A-FAL24	**Sample Time:**	10:10
Purge End Time:	10:21	**Well Volumes Purged (total):**	0.58	**Replicate Type / Replicate ID:**	**MS/MSD** / G6M-04-10A-FAL24	**Water Quality Meter/ ID:**	YSI 600 XLM Sonde 1.65' inch / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
										Color	Odor
09:30	0	150	mL/min	13.92	6.55	0.084	9.16	11.3	-47.4	Clear	None
09:35	5	150	mL/min	13.94	6.37	0.156	9.03	11.5	-37.2	Clear	None
09:40	10	150	mL/min	13.94	6.3	0.159	9.08	11.7	-35.4	Clear	None
09:45	15	150	mL/min	13.94	6.28	0.158	9.05	11.8	-36.8	Clear	None
09:50	20	150	mL/min	13.94	6.26	0.156	8.93	11.6	-37.9	Clear	None
09:55	25	150	mL/min	13.94	6.24	0.155	8.88	11.7	-38.3	Clear	None
10:00	30	150	mL/min	13.94	6.23	0.154	8.94	11.6	-38.3	Clear	None
10:05	35	150	mL/min	13.94	6.22	0.154	8.97	11.8	-38.1	Clear	None

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (SW9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: NA

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? no

Well Inspection Comments: NA

Groundwater Sampling Form

Location ID:	G6M-04-10X	**Date(s):**	2024-11-08	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:52.75 °F, rH:65%, Clouds: 0%, Wind:9.22mph W-SW			**Field Technician:**		Elisabeth Arnold	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	52.00-62.00	**Casing Diameter (in):**	2	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	16	**Total Depth (ft-bmp):**	62	**Water Column(ft):**	46	**Gallons in Well:**	7.47
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	60	**Purge Method:**	Low-Flow	**Purging Equipment:**	Peristaltic
Purge Start Time:	13:33	**Total Volume Purged (gallons):**	4.55	**Sample ID:**	G6M-04-0X-FAL24	**Sample Time:**	15:20
Purge End Time:	15:28	**Well Volumes Purged (total):**	0.61	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI 600 XLM Sonde 1.65' inch / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
										Color	Odor
13:40	0	150	mL/min	16.00	6.38	1.287	8	13.3	47.7	Clear	None
13:45	5	150	mL/min	16.00	6.09	1.836	2.06	11.4	9.3	Clear	None
13:50	10	150	mL/min	16.00	6.01	2.478	1.89	11.3	13.2	Clear	None
13:55	15	150	mL/min	16.00	5.87	1.822	1.63	11.4	25.6	Clear	None
14:00	20	150	mL/min	16.00	5.77	1.824	1.53	11.3	35.9	Clear	None
14:05	25	150	mL/min	16.00	5.72	1.85	1.29	11.6	41.4	Clear	None
14:10	30	150	mL/min	16.00	5.65	1.824	1.2	11.3	48.6	Clear	None
14:15	35	150	mL/min	16.00	5.59	1.838	1.1	11.6	54.6	Clear	None
14:20	40	150	mL/min	16.00	5.58	1.847	0.98	11.3	58.2	Clear	None
14:25	45	150	mL/min	16.00	5.57	1.869	0.93	11.4	60.4	Clear	None
14:30	50	150	mL/min	16.00	5.52	1.858	0.92	11.3	64.4	Clear	None
14:35	55	150	mL/min	16.00	5.48	1.874	0.9	11.4	68	Clear	None
14:40	60	150	mL/min	16.00	5.47	1.863	0.9	11.1	70.6	Clear	None
14:45	65	150	mL/min	16.00	5.58	1.898	0.94	11.5	63.8	Clear	None
14:50	70	150	mL/min	16.00	5.83	1.984	1.13	12.3	43.3	Clear	None
14:55	75	150	mL/min	16.00	5.85	2.646	1.23	12.2	37.1	Clear	None
15:00	80	150	mL/min	16.00	5.75	2.006	1.2	12.3	41.7	Clear	None
15:05	85	150	mL/min	16.00	5.68	2.006	1.16	12.5	47	Clear	None
15:10	90	150	mL/min	16.00	5.7	2.016	1.16	12.6	46.5	Clear	None
15:15	95	150	mL/min	16.00	5.69	2.05	1.24	12.6	47	Clear	None

Constituent Sampled	Container	Number	Preservative
VOCs (8260)	Clear Glass	3	HCl

Comments: NA

Well Information:

Well Labeled Properly:	yes
Is Well in Good Condition?	no
Well Inspection Comments:	NA

Groundwater Sampling Form

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Location ID:	G6M-04-11X	**Date(s):**	2024-11-14	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:44.19 °F, rH:22%, Clouds: 7%, Wind:3mph E-NE			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	35.00-45.00	**Casing Diameter (in):**	2	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	20.64	**Total Depth (ft-bmp):**	45	**Water Column(ft):**	24.36	**Liters in Well:**	15.05
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	40	**Purge Method:**	Low Flow	**Purging Equipment:**	Peristaltic Pump
Purge Start Time:	14:20	**Total Volume Purged (liters):**	8.375	**Sample ID:**	G6M-04-11X-FAL24	**Sample Time:**	15:25
Purge End Time:	15:20	**Well Volumes Purged (total):**	0.56	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
14:25	0	125	mL/min	20.64	7.25	0.093	2.66	9.95	6.4	-39.5	Clear	No Odor
14:30	5	125	mL/min	20.76	6.9	0.089	2.29	9.62	6.4	-21.5	Clear	No Odor
14:35	10	125	mL/min	20.89	6.75	0.089	2.44	9.52	6.6	-9.9	Clear	No Odor
14:40	15	125	mL/min	20.99	6.64	0.089	2.35	9.4	6.5	-0.5	Clear	No Odor
14:45	20	125	mL/min	21.16	6.6	0.089	2.16	9.46	6.3	6.7	Clear	No Odor
14:50	25	150	mL/min	21.35	6.55	0.09	2.19	9.47	6.4	11.1	Clear	No Odor
14:55	30	150	mL/min	21.49	6.54	0.091	2.17	9.46	6.5	14.2	Clear	No Odor
15:00	35	150	mL/min	21.57	6.54	0.09	2.27	9.41	6.3	17.3	Clear	No Odor
15:05	40	150	mL/min	21.66	6.51	0.09	2.43	9.41	6.1	21.3	Clear	No Odor
15:10	45	150	mL/min	21.71	6.48	0.091	2.31	9.45	6.4	25.4	Clear	No Odor
15:15	50	150	mL/min	21.77	6.48	0.091	2.21	9.34	6.5	26.5	Clear	No Odor
15:20	55	150	mL/min	21.81	6.5	0.091	2.28	9.37	6.4	27.9	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-04-13X	**Date(s):**	2024-11-12	**Work Order(s):**		Order #10 - Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:48.47 °F, rH:54%, Clouds: 75%, Wind:24.16mph N-NW			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	30.00-40.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	16.02	**Total Depth (ft-bmp):**	40	**Water Column(ft):**	23.98	**Liters in Well:**	14.81
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	35	**Purge Method:**	Low Flow	**Purging Equipment:**	Peristaltic Pump
Purge Start Time:	12:25	**Total Volume Purged (liters):**	7.5	**Sample ID:**	G6M-04-13X-FAL24	**Sample Time:**	13:30
Purge End Time:	13:26	**Well Volumes Purged (total):**	0.51	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
12:35	0	125	mL/min	16.02	6.55	0.089	18.21	6.84	9	10.8	Clear	No Odor
12:40	5	125	mL/min	16.33	6.57	0.088	9.99	6.25	9	7.9	Clear	No Odor
12:45	10	125	mL/min	16.67	6.64	0.086	6.76	3.49	9.3	-13.4	Clear	No Odor
12:51	16	125	mL/min	16.99	6.65	0.084	4.35	2.59	9.4	-31.4	Clear	No Odor
12:55	20	125	mL/min	17.18	6.67	0.083	3.54	2.41	9	-40.7	Clear	No Odor
13:00	25	125	mL/min	17.55	6.69	0.081	3.86	2.25	9.1	-48.9	Clear	No Odor
13:05	30	125	mL/min	17.82	6.69	0.083	3.71	2.16	8.9	-54	Clear	No Odor
13:10	35	125	mL/min	17.82	6.7	0.081	3.65	2.13	8.8	-58.9	Clear	No Odor
13:15	40	125	mL/min	17.83	6.7	0.081	3.18	2.11	9.1	-62.2	Clear	No Odor
13:20	45	125	mL/min	17.84	6.7	0.08	3.54	2.09	9.2	-65.2	Clear	No Odor
13:25	50	125	mL/min	17.85	6.7	0.079	3.22	2.06	9	-67.2	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

Location ID:	G6M-04-14X	**Date(s):**	2024-11-11	**Work Order(s):**		Order #10 - Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:63.86 °F, rH:59%, Clouds: 40%, Wind:16.11mph W-SW			**Field Technician:**		Allyson Fenton	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	80.00-90.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	9.31	**Total Depth (ft-bmp):**	94.14	**Water Column(ft):**	84.83	**Liters in Well:**	52.41
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	90	**Purge Method:**	Low Flow	**Purging Equipment:**	Peristaltic Pump
Purge Start Time:	12:05	**Total Volume Purged (liters):**	5	**Sample ID:**	G6M-04-14X-FAL24	**Sample Time:**	12:55
Purge End Time:	12:55	**Well Volumes Purged (total):**	0.10	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
12:10	0	100	mL/min	9.4	6.96	0.784	16.02	5.63	14.1	184.9	Clear	No Odor
12:15	5	100	mL/min	9.4	7.35	0.581	19.05	2.64	13.8	181.3	Clear	No Odor
12:20	10	100	mL/min	9.4	7.44	0.494	13.03	1.86	13.7	160.5	Clear	No Odor
12:25	15	100	mL/min	9.4	7.46	0.48	10.06	1.55	13.8	130.7	Clear	No Odor
12:30	20	100	mL/min	9.4	7.47	0.476	7.89	1.41	13.7	107.1	Clear	No Odor
12:35	25	100	mL/min	9.4	7.48	0.472	6.08	1.3	13.7	89.1	Clear	No Odor
12:40	30	100	mL/min	9.4	7.48	0.47	5.53	1.24	13.7	79.6	Clear	No Odor
12:45	35	100	mL/min	9.4	7.47	0.468	4.82	1.21	13.6	70.9	Clear	No Odor
12:50	40	100	mL/min	9.4	7.47	0.467	4.03	1.18	13.7	64.6	Clear	No Odor
12:55	45	100	mL/min	9.4	7.47	0.466	3.88	1.16	13.7	61	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: NA

Is Well in Good Condition? NA

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-04-15X	**Date(s):**	2024-11-07	**Work Order(s):**		Order #10 - Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:66.38 °F, rH:47%, Clouds: 75%, Wind:14.97mph W-NW			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	70.00-80.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	43.65	**Total Depth (ft-bmp):**	80	**Water Column(ft):**	36.35	**Liters in Well:**	22.46
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	75	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	13:20	**Total Volume Purged (liters):**	19	**Sample ID:**	G6M-04-15X-FAL24	**Sample Time:**	15:00
Purge End Time:	14:56	**Well Volumes Purged (total):**	0.85	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
13:25	0	200	mL/min	43.68	6.15	0.855	14.44	3.68	13.3	33.9	Clear	No Odor
13:30	5	200	mL/min	43.68	6.24	1.029	51.25	2.22	12.9	11.7	Clear	No Odor
13:35	10	200	mL/min	43.68	6.25	1.056	85.13	1.69	13.1	-3.9	Clear	No Odor
13:40	15	200	mL/min	43.68	6.26	1.019	115.49	1.53	12.3	-9.2	Clear	No Odor
13:45	20	200	mL/min	43.68	6.26	1.033	117.86	1.44	12.3	-11.9	Clear	No Odor
13:50	25	200	mL/min	43.68	6.26	1.024	105.66	1.37	12.2	-13.8	Clear	No Odor
13:55	30	200	mL/min	43.68	6.25	1.021	26.12	1.3	12.5	-15.8	Clear	No Odor
14:00	35	200	mL/min	43.68	6.26	1.029	11.86	1.26	12.2	-17.2	Clear	No Odor
14:05	40	200	mL/min	43.68	6.26	1.02	7.05	1.22	12.3	-18.6	Clear	No Odor
14:10	45	200	mL/min	43.68	6.26	1.032	8.42	1.18	12.3	-20.4	Clear	No Odor
14:25	60	200	mL/min	43.68	6.26	1.025	9.12	1.11	12.3	-21.9	Clear	No Odor
14:35	70	200	mL/min	43.68	6.26	1.024	7.14	1.09	12	-23.1	Clear	No Odor
14:40	75	200	mL/min	43.68	6.26	1.031	8.01	1.06	12.6	-24.5	Clear	No Odor
14:45	80	200	mL/min	43.68	6.26	1.032	6.29	1.04	12.7	-25.5	Clear	No Odor
14:50	85	200	mL/min	43.68	6.26	1.039	6.02	1.03	12.8	-26	Clear	No Odor
14:55	90	200	mL/min	43.68	6.26	1.029	6.19	1.02	12.7	-26.2	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly:	yes
Is Well in Good Condition?	good
Well Inspection Comments:	NA

Groundwater Sampling Form

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Location ID:	G6M-04-22X	**Date(s):**	2024-11-07	**Work Order(s):**		Order #10 - Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:65.25 °F, rH:64%, Clouds: 0%, Wind:9.22mph W-NW			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	74.00-84.00	**Casing Diameter (in):**	2	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	47	**Total Depth (ft-bmp):**	84	**Water Column(ft):**	37	**Liters in Well:**	22.86
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	79	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	09:35	**Total Volume Purged (liters):**	16.75	**Sample ID:**	G6M-04-22X-FAL24	**Sample Time:**	11:05
Purge End Time:	11:02	**Well Volumes Purged (total):**	0.73	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
09:40	0	150	mL/min	47	6.32	0.467	515.81	1.85	11.7	-53.3	Clear	No Odor
09:45	5	200	mL/min	47.31	6.29	0.469	65.16	1.46	11.6	-57.4	Clear	No Odor
09:50	10	200	mL/min	47.83	6.29	0.471	71.67	1.41	11.7	-57.9	Clear	No Odor
10:00	20	200	mL/min	47.83	6.26	0.49	94.44	1.19	11.6	-59.4	Clear	No Odor
10:05	25	200	mL/min	47.83	6.24	0.496	27.33	1.11	11.6	-59.4	Clear	No Odor
10:10	30	200	mL/min	47.83	6.24	0.508	23.48	1.05	11.7	-59.7	Clear	No Odor
10:15	35	200	mL/min	47.83	6.23	0.518	24.37	0.098	11.7	-60.7	Clear	No Odor
10:25	45	200	mL/min	47.93	6.21	0.542	21.06	1.02	12.3	-60.4	Clear	No Odor
10:31	51	200	mL/min	47.83	6.21	0.526	21.89	0.95	11.7	-60.4	Clear	No Odor
10:40	60	200	mL/min	47.83	6.21	0.534	22.96	0.91	11.6	-61.4	Clear	No Odor
10:45	65	200	mL/min	47.83	6.22	0.532	23.24	0.88	11.6	-62.1	Clear	No Odor
10:50	70	200	mL/min	47.83	6.22	0.547	22.21	0.87	11.7	-62.7	Clear	No Odor
10:55	75	200	mL/min	47.83	6.2	0.555	21.62	0.85	11.8	-62.7	Clear	No Odor
11:00	80	200	mL/min	47.83	6.2	0.557	21.25	0.84	12	-63	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-04-31X	**Date(s):**	2024-11-07	**Work Order(s):**		Order #10 - Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:66.79 °F, rH:49%, Clouds: 75%, Wind:21.85mph W-NW			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	68.00-78.00	**Casing Diameter (in):**	2	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	47.04	**Total Depth (ft-bmp):**	78	**Water Column(ft):**	30.96	**Liters in Well:**	19.13
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	73	**Purge Method:**	Low Flow	**Purging Equipment:**	Not Applicable
Purge Start Time:	11:35	**Total Volume Purged (liters):**	9	**Sample ID:**	G6M-04-31X-FAL24	**Sample Time:**	12:25
Purge End Time:	12:23	**Well Volumes Purged (total):**	0.47	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Not Applicable / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
11:45	0	200	mL/min	47.04	6.48	0.15	6.15	3.48	12.7	-23.9	Clear	No Odor
11:50	5	200	mL/min	47.04	6.52	0.388	35.11	1.72	12.4	-63.7	Clear	No Odor
11:55	10	200	mL/min	47.04	6.6	0.625	132.43	1.41	12.2	-84.6	Clear	No Odor
12:00	15	200	mL/min	47.04	6.64	0.67	144.27	1.29	12.2	-92.9	Clear	No Odor
12:05	20	200	mL/min	47.04	6.67	0.687	40.56	1.22	11.9	-97.8	Clear	No Odor
12:10	25	200	mL/min	47.04	6.67	0.688	19.51	1.18	11.8	-100.1	Clear	No Odor
12:15	30	200	mL/min	47.04	6.68	0.693	19.09	1.14	11.9	-102.3	Clear	No Odor
12:20	35	200	mL/min	47.04	6.68	0.693	18.73	1.11	11.9	-105.3	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

Location ID:	G6M-07-01X	**Date(s):**	2024-11-08	**Work Order(s):**		Order #10 - Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:52.75 °F, rH:65%, Clouds: 0%, Wind:9.22mph W-SW			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	78.00-98.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	53.65	**Total Depth (ft-bmp):**	98	**Water Column(ft):**	44.35	**Liters in Well:**	27.4
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	88	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	09:45	**Total Volume Purged (liters):**	13.2	**Sample ID:**	G6M-07-01X-FAL24	**Sample Time:**	10:55
Purge End Time:	10:52	**Well Volumes Purged (total):**	0.48	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
09:50	0	200	mL/min	53.65	6.17	0.737	126.64	2.55	12.9	201.1	Clear	No Odor
09:55	5	200	mL/min	53.68	6.23	0.742	71.82	1.81	12.9	179.1	Clear	No Odor
10:00	10	200	mL/min	53.68	6.27	0.737	53.58	1.54	12.8	158.1	Clear	No Odor
10:05	15	200	mL/min	53.69	6.27	0.73	53.74	1.53	12.8	149	Clear	No Odor
10:10	20	200	mL/min	53.71	6.26	0.704	71.75	1.32	12.9	130.6	Clear	No Odor
10:15	25	200	mL/min	53.79	6.25	0.694	81.29	1.29	12.8	127.7	Clear	No Odor
10:20	30	200	mL/min	53.86	6.23	0.621	25.83	1.2	12.8	114.8	Clear	No Odor
10:25	35	200	mL/min	53.86	6.22	0.514	24.94	1.15	12.9	105.5	Clear	No Odor
10:31	41	200	mL/min	53.86	6.21	0.47	24.13	1.12	12.8	101.5	Clear	No Odor
10:36	46	200	mL/min	53.86	6.21	0.431	24.31	1.09	12.8	97.1	Clear	No Odor
10:40	50	200	mL/min	53.86	6.2	0.416	24.61	1.07	12.8	94.4	Clear	No Odor
10:45	55	200	mL/min	53.86	6.2	0.407	23.87	1.03	12.7	91.4	Clear	No Odor
10:51	61	200	mL/min	53.86	6.19	0.405	23.4	0.99	12.8	88.1	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (SW9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-07-02X	**Date(s):**	2024-11-12	**Work Order(s):**		Order #10 - Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:48.49 °F, rH:57%, Clouds: 40%, Wind:17.27mph N-NW			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	22.50-27.50	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	15.74	**Total Depth (ft-bmp):**	27.5	**Water Column(ft):**	11.76	**Liters in Well:**	7.27
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	25	**Purge Method:**	Low Flow	**Purging Equipment:**	Peristaltic Pump
Purge Start Time:	10:00	**Total Volume Purged (liters):**	9.5	**Sample ID:**	G6M-07-02X-FAL24	**Sample Time:**	11:20
Purge End Time:	11:17	**Well Volumes Purged (total):**	1.31	**Replicate Type / Replicate ID:**	**Duplicate** / AOC50-DUP02-FAL24	**Water Quality Meter/ ID:**	YSI Pro DSS / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
10:10	0	125	mL/min	15.74	6.58	0.201	108.09	2.22	10.6	-60.7	Clear	No Odor
10:15	5	125	mL/min	16.31	6.65	0.197	33.41	1.6	10.5	-87.1	Clear	No Odor
10:21	11	125	mL/min	17.36	6.65	0.199	28.14	1.42	10.4	-96.1	Clear	No Odor
10:25	15	125	mL/min	17.83	6.65	0.202	51.71	1.34	10.4	-99.9	Clear	No Odor
10:30	20	125	mL/min	18.29	6.64	0.208	10.45	1.27	10.5	-102.4	Clear	No Odor
10:35	25	125	mL/min	18.53	6.63	0.217	16.63	1.21	10.6	-104.1	Clear	No Odor
10:41	31	125	mL/min	18.88	6.62	0.217	8.61	1.18	10.5	-106.2	Clear	No Odor
10:46	36	125	mL/min	18.91	6.62	0.215	10.77	1.19	10.5	-106.9	Clear	No Odor
10:50	40	125	mL/min	18.91	6.6	0.225	9.81	1.14	10.6	-107.2	Clear	No Odor
10:55	45	125	mL/min	18.9	6.6	0.224	17.69	1.13	10.5	-107.6	Clear	No Odor
11:00	50	125	mL/min	18.91	6.59	0.222	18.27	1.1	10.6	-107.6	Clear	No Odor
11:05	55	125	mL/min	18.9	6.59	0.222	6.83	1.13	10.6	-107.6	Clear	No Odor
11:10	60	125	mL/min	18.9	6.58	0.219	6.59	1.08	10.7	-107.3	Clear	No Odor
11:16	66	125	mL/min	18.9	6.57	0.218	6.58	1.08	10.5	-106.8	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	2	H2SO4
Anions (SW9034)	Plastic	4	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	2	None
Gases (RSK175)	Clear Glass	6	HCl
GenChem (A2320)	Plastic	2	None
Metals (SW6010)	Plastic	2	HNO3
Metals (SW6020)	Plastic	2	HNO3
TOC (SW9060)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	6	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-13-01X	**Date(s):**	2024-11-12	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:48.63 °F, rH:57%, Clouds: 100%, Wind:19.57mph NW			**Field Technician:**		Casey Shultis	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	125.00-135.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	64.74	**Total Depth (ft-bmp):**	135	**Water Column(ft):**	70.26	**Liters in Well:**	43.41
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	130	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	09:39	**Total Volume Purged (liters):**	7.8	**Sample ID:**	G6M-13-01X-FAL24	**Sample Time:**	10:45
Purge End Time:	10:35	**Well Volumes Purged (total):**	0.18	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Not Applicable / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
09:50	0	130	mL/min	64.8	6.36	0.475	1.12	2.32	11.4	108.6	Clear	No Odor
09:55	5	130	mL/min	64.8	6.32	0.448	0.34	1.61	11.4	112.5	Clear	No Odor
10:00	10	130	mL/min	64.8	6.33	0.453	0.58	1.39	11.6	96.7	Clear	No Odor
10:05	15	130	mL/min	64.8	6.34	0.482	0	1.26	11.4	70.2	Clear	No Odor
10:10	20	130	mL/min	64.8	6.35	0.487	0.67	1.14	11.6	40.3	Clear	No Odor
10:15	25	130	mL/min	64.8	6.37	0.488	0	1.07	11.4	20.1	Clear	No Odor
10:20	30	130	mL/min	64.8	6.39	0.49	0	1.03	11.3	8.1	Clear	No Odor
10:25	35	130	mL/min	64.8	6.4	0.492	0	0.99	11.4	0.4	Clear	No Odor
10:30	40	130	mL/min	64.8	6.4	0.494	0	0.95	11.5	-5.1	Clear	No Odor
10:35	45	130	mL/min	64.81	6.41	0.494	0	0.93	11.4	-8.9	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (SW9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly:	yes
Is Well in Good Condition?	good
Well Inspection Comments:	NA

Groundwater Sampling Form

Location ID:	G6M-13-02X	**Date(s):**	2024-11-14	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:38.25 °F, rH:36%, Clouds: 0%, Wind:9.22mph N			**Field Technician:**		Casey Shultis	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	115.00-125.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	63.22	**Total Depth (ft-bmp):**	125	**Water Column(ft):**	61.78	**Liters in Well:**	38.17
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	120	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	10:21	**Total Volume Purged (liters):**	6.205	**Sample ID:**	G6M-13-02X-FAL24	**Sample Time:**	11:15
Purge End Time:	11:05	**Well Volumes Purged (total):**	0.16	**Replicate ID:**	**Duplicate** / AOC50-DUP03-FAL24	**Water Quality Meter/ ID:**	Not Applicable / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
10:30	0	145	mL/min	63.98	6.08	0.725	1.26	1.57	12.2	35.7	Clear	No Odor
10:35	5	140	mL/min	64.01	6.12	0.718	1.02	1.28	12.1	-7.9	Clear	No Odor
10:40	10	140	mL/min	64.01	6.14	0.715	0.97	1.16	12.2	-18.5	Clear	No Odor
10:45	15	140	mL/min	64.01	6.15	0.719	0.86	1.06	12.3	-23.9	Clear	No Odor
10:50	20	140	mL/min	64.01	6.17	0.717	0.76	1.01	12.1	-27.4	Clear	No Odor
10:55	25	140	mL/min	64.01	6.18	0.724	0.94	0.95	12.4	-29.9	Clear	No Odor
11:00	30	140	mL/min	64.01	6.2	0.724	0.83	0.9	12.3	-31.4	Clear	No Odor
11:05	35	140	mL/min	64.01	6.21	0.724	1.36	0.89	12.3	-32.5	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (SW9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-13-03X	**Date(s):**	2024-11-07	**Work Order(s):**		Order #10 - Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	64 Sunny, wind 11mph WNW			**Field Technician:**		Spencer Gust	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	80.00-90.00	**Casing Diameter (in):**	NA	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	58.89	**Total Depth (ft-bmp):**	90	**Water Column(ft):**	31.11	**Gallons in Well:**	5.07
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	85	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	14:10	**Total Volume Purged (gallons):**	2.16	**Sample ID:**	G6M-13-03X-FAL24	**Sample Time:**	14:51
Purge End Time:	14:51	**Well Volumes Purged (total):**	0.43	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
14:15	0	200	mL/min	58.39	5.79	2.216	95.79	2.93	15.2	-10.1	Clear	No Odor
14:20	5	200	mL/min	58.39	5.54	2.102	24.97	1.51	15	56.8	Clear	No Odor
14:25	10	200	mL/min	58.39	5.52	2.103	19.37	1.18	14.8	71.4	Clear	No Odor
14:30	15	200	mL/min	58.39	5.51	2.126	19.93	1.05	14.7	78.3	Clear	No Odor
14:35	20	200	mL/min	58.39	5.49	2.157	19.66	0.98	14.6	84.4	Clear	No Odor
14:40	25	200	mL/min	58.39	5.46	2.207	23.97	0.85	15.6	88.1	Clear	No Odor
14:45	30	200	mL/min	58.39	5.45	2.235	23.76	0.87	15.8	93.2	Clear	No Odor
14:50	35	200	mL/min	58.39	5.43	2.262	24.16	0.84	15.7	97.7	Clear	No Odor

Constituent Sampled	Container	Number	Volume	Preservative
VOCs (8260)	Clear Glass	3	40 mL	HCl

Comments: None

Well Information:

Well Labeled Properly: NA

Is Well in Good Condition? NA

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-13-04X	**Date(s):**	2024-11-11	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:63.14 °F, rH:52%, Clouds: 20%, Wind:10.36mph W-NW			**Field Technician:**		Casey Shultis	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	45.00-55.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	63.96	**Total Depth (ft-bmp):**	135	**Water Column(ft):**	71.04	**Liters in Well:**	43.89
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	130	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	15:06	**Total Volume Purged (liters):**	2.945	**Sample ID:**	G6M-13-04X-FAL24	**Sample Time:**	15:45
Purge End Time:	15:38	**Well Volumes Purged (total):**	0.07	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Not Applicable,YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
15:15	0	95	mL/min	64.04	6.64	0.947	16.47	1.85	13.9	-71.5	Clear	No Odor
15:18	3	95	mL/min	64.04	6.64	0.963	8.05	1.5	13.9	-81.9	Clear	No Odor
15:22	7	95	mL/min	64.04	6.66	0.967	8.13	1.37	13.8	-89.4	Clear	No Odor
15:25	10	95	mL/min	64.04	6.66	0.952	1.25	1.41	13.8	-89.3	Clear	No Odor
15:28	13	95	mL/min	64.04	6.66	0.932	5.56	1.44	13.6	-88.6	Clear	No Odor
15:31	16	95	mL/min	64.04	6.66	0.932	2.14	1.41	13.7	-89.3	Clear	No Odor
15:34	19	95	mL/min	64.04	6.66	0.934	2.14	1.34	13.6	-90.4	Clear	No Odor
15:37	22	95	mL/min	64.04	6.67	0.933	1.28	1.32	13.5	-90.1	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-13-05X	**Date(s):**	2024-11-11	**Work Order(s):**		Order #10 - Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:65.08 °F, rH:53%, Clouds: 40%, Wind:16.11mph W-SW			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	45.00-55.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	15.55	**Total Depth (ft-bmp):**	55	**Water Column(ft):**	39.45	**Liters in Well:**	24.37
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	50	**Purge Method:**	Low Flow	**Purging Equipment:**	Peristaltic Pump
Purge Start Time:	12:55	**Total Volume Purged (liters):**	7.5	**Sample ID:**	G6M-13-05X-FAL24	**Sample Time:**	13:50
Purge End Time:	13:48	**Well Volumes Purged (total):**	0.31	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
13:10	0	150	mL/min	15.55	6.41	0.641	49.98	3.7	15.6	9.3	Clear	No Odor
13:15	5	150	mL/min	15.68	6.47	0.637	16.71	2.99	15.3	-21.9	Clear	No Odor
13:20	10	150	mL/min	15.85	6.52	0.639	17.14	2.34	14.9	-48.9	Clear	No Odor
13:25	15	150	mL/min	15.98	6.55	0.638	19.37	2.01	14.8	-66.1	Clear	No Odor
13:30	20	150	mL/min	16.09	6.57	0.646	19.56	1.83	15.1	-76.1	Clear	No Odor
13:35	25	150	mL/min	16.1	6.58	0.654	18.53	1.68	15.3	-86.2	Clear	No Odor
13:41	31	150	mL/min	16.09	6.59	0.654	18.15	1.61	15.1	-91	Clear	No Odor
13:45	35	150	mL/min	16.09	6.61	0.647	17.75	1.55	14.9	-95.4	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (SW9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-13-06X	**Date(s):**	2024-11-11	**Work Order(s):**		Order #10 - Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:63.99 °F, rH:53%, Clouds: 75%, Wind:12.66mph W-NW			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	50.00-60.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	15.09	**Total Depth (ft-bmp):**	60	**Water Column(ft):**	44.91	**Liters in Well:**	27.74
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	55	**Purge Method:**	Low Flow	**Purging Equipment:**	Peristaltic Pump
Purge Start Time:	14:20	**Total Volume Purged (liters):**	9	**Sample ID:**	G6M-13-06X-FAL24	**Sample Time:**	15:25
Purge End Time:	15:21	**Well Volumes Purged (total):**	0.32	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
14:25	0	150	mL/min	15.09	6.14	0.855	17.87	2.25	13.6	-33.6	Clear	No Odor
14:30	5	150	mL/min	15.19	6.11	0.827	44.9	1.66	13.1	-42.9	Clear	No Odor
14:35	10	150	mL/min	15.27	6.11	0.815	54.8	1.39	12.9	-47.7	Clear	No Odor
14:40	15	150	mL/min	15.33	6.11	0.811	49.64	1.38	12.8	-48.4	Clear	No Odor
14:45	20	150	mL/min	15.33	6.11	0.81	13.37	1.29	12.7	-50.6	Clear	No Odor
15:05	40	150	mL/min	15.35	6.11	0.812	19.31	1.21	12.8	-53.8	Clear	No Odor
15:11	46	150	mL/min	15.35	6.11	0.808	14.52	1.21	12.8	-54.2	Clear	No Odor
15:15	50	150	mL/min	15.35	6.11	0.805	15.57	1.19	12.6	-54.4	Clear	No Odor
15:20	55	150	mL/min	15.36	6.11	0.803	15.18	1.18	12.6	-54.6	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (SW9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

Location ID:	G6M-95-19X	**Date(s):**	2024-11-12	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:45.34 °F, rH:57%, Clouds: 75%, Wind:15.01mph E-NE			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	48.00-58.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	13.99	**Total Depth (ft-bmp):**	58	**Water Column(ft):**	44.01	**Liters in Well:**	27.19
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	53	**Purge Method:**	Low Flow	**Purging Equipment:**	Peristaltic Pump
Purge Start Time:	13:55	**Total Volume Purged (liters):**	5.625	**Sample ID:**	G6M-95-19X-FAL24	**Sample Time:**	14:45
Purge End Time:	14:41	**Well Volumes Purged (total):**	0.21	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
14:00	0	125	mL/min	14.01	5.69	1.547	2.5	4.68	9.8	22.6	Clear	No Odor
14:05	5	125	mL/min	14.01	5.72	1.571	1.81	3.36	9.8	31.5	Clear	No Odor
14:15	15	125	mL/min	14.01	5.72	1.599	1.59	2.7	9.9	42.7	Clear	No Odor
14:20	20	125	mL/min	14.01	5.73	1.605	1.52	2.59	9.7	46.9	Clear	No Odor
14:25	25	125	mL/min	14.01	5.72	1.622	1.6	2.45	10	50.5	Clear	No Odor
14:30	30	125	mL/min	14.01	5.73	1.627	1.51	2.42	9.9	53.9	Clear	No Odor
14:35	35	125	mL/min	14.01	5.73	1.619	1.52	2.38	9.7	57	Clear	No Odor
14:40	40	125	mL/min	14.01	5.73	1.626	1.53	2.32	9.8	59.9	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: Stick up,is rusty. Need a hammer to remove standpipe cover

Groundwater Sampling Form

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Location ID:	G6M-95-20X	**Date(s):**	2024-11-12	**Work Order(s):**		Order #10 - Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:48.4 °F, rH:61%, Clouds: 0%, Wind:14.97mph N-NW			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	18.00-23.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	14.45	**Total Depth (ft-bmp):**	23	**Water Column(ft):**	8.55	**Liters in Well:**	5.28
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	20.5	**Purge Method:**	Low Flow	**Purging Equipment:**	Peristaltic Pump
Purge Start Time:	08:30	**Total Volume Purged (liters):**	6.875	**Sample ID:**	G6M-95-20X-FAL24	**Sample Time:**	09:40
Purge End Time:	09:35	**Well Volumes Purged (total):**	1.30	**Replicate Type / Replicate ID:**	**Duplicate** / AOC50-DUP04-FAL24	**Water Quality Meter/ ID:**	YSI Pro DSS / 19c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
08:35	0	125	mL/min	14.45	5.94	0.171	20.9	4.45	10.9	163.5	Clear	No Odor
08:45	10	125	mL/min	14.61	5.91	0.171	23.54	2.52	11	123.2	Clear	No Odor
08:50	15	100	mL/min	14.93	5.91	0.171	10.81	1.95	10.6	89.4	Clear	No Odor
08:55	20	100	mL/min	15.19	5.91	0.171	10.65	1.94	10.6	87.4	Clear	No Odor
09:00	25	100	mL/min	15.36	5.92	0.172	7.73	1.81	10.7	76.3	Clear	No Odor
09:05	30	100	mL/min	15.35	5.92	0.173	5.44	1.64	10.7	62.1	Clear	No Odor
09:10	35	100	mL/min	15.35	5.92	0.174	5.76	1.64	10.7	61.5	Clear	No Odor
09:15	40	100	mL/min	15.35	5.92	0.175	5.16	1.59	10.6	56.2	Clear	No Odor
09:26	51	100	mL/min	15.35	5.93	0.175	4.37	1.53	10.6	46.6	Clear	No Odor
09:30	55	100	mL/min	15.35	5.93	0.177	4.44	1.62	10.6	44.3	Clear	No Odor
09:35	60	100	mL/min	15.35	5.93	0.178	4.21	1.5	10.7	41.1	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	4	HNO3
VOCs (8260)	Clear Glass	6	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-97-05B	**Date(s):**	2024-11-11	**Work Order(s):**		Order #10 - Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:64.42 °F, rH:53%, Clouds: 100%, Wind:16.11mph W			**Field Technician:**		Allyson Fenton	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	130.00-135.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	66.29	**Total Depth (ft-bmp):**	137	**Water Column(ft):**	70.71	**Liters in Well:**	43.68
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	130	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	14:05	**Total Volume Purged (liters):**	8	**Sample ID:**	G6M-97-05B-FAL24	**Sample Time:**	15:25
Purge End Time:	15:25	**Well Volumes Purged (total):**	0.18	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
14:10	0	100	mL/min	64.75	6.63	0.845	37.68	5.65	16.9	48.6	Clear	No Odor
14:15	5	100	mL/min	64.9	6.57	0.927	26.14	3.06	15.5	-73.5	Clear	No Odor
14:20	10	100	mL/min	64.9	6.69	0.806	20.65	1.95	13.7	-96.1	Clear	No Odor
14:25	15	100	mL/min	64.9	6.74	0.794	8.86	1.55	13.5	-109.4	Clear	No Odor
14:30	20	100	mL/min	64.9	6.75	0.789	13.8	1.29	13.4	-118	Clear	No Odor
14:35	25	100	mL/min	64.9	6.76	0.782	14.74	1.14	13.1	-123.9	Clear	No Odor
14:40	30	100	mL/min	64.9	6.77	0.775	12.06	1.05	12.8	-128.4	Clear	No Odor
14:45	35	100	mL/min	64.9	6.76	0.773	26.75	0.98	12.5	-131.3	Clear	No Odor
14:50	40	100	mL/min	64.9	6.74	0.781	17.22	0.92	12.7	-133.2	Clear	No Odor
14:55	45	100	mL/min	64.9	6.73	0.786	24.56	0.88	12.7	-134.8	Clear	No Odor
15:00	50	100	mL/min	64.9	6.72	0.784	16.27	0.86	12.6	-136.9	Clear	No Odor
15:05	55	100	mL/min	64.9	6.73	0.783	29.44	0.83	12.6	-140.3	Clear	No Odor
15:10	60	100	mL/min	64.9	6.71	0.784	20.27	0.82	12.5	-140.3	Clear	No Odor
15:15	65	100	mL/min	64.9	6.71	0.786	17.4	0.8	12.5	-141.4	Clear	No Odor
15:20	70	100	mL/min	64.9	6.7	0.79	21.27	0.79	12.5	-142.4	Clear	No Odor
15:25	75	100	mL/min	64.9	6.7	0.791	27.34	0.77	12.5	-143.6	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Anions (E353.2)	Amber Glass	1	H2SO4
Anions (SW9034)	Plastic	2	Zn(CH3CO2)2
Anions (SW9056A)	Plastic	1	None
Gases (RSK175)	Clear Glass	3	HCl
GenChem (A2320)	Plastic	1	None
Metals (SW6010)	Plastic	1	HNO3
Metals (SW6020)	Plastic	1	HNO3
TOC (SW9060)	Plastic	1	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: NA

Is Well in Good Condition? NA

Groundwater Sampling Form

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Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	G6M-97-28X	**Date(s):**	2024-11-12	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:48.29 °F, rH:53%, Clouds: 75%, Wind:24.16mph N-NW			**Field Technician:**		Allyson Fenton	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	100.00-105.00	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	62.4	**Total Depth (ft-bmp):**	107	**Water Column(ft):**	44.6	**Liters in Well:**	27.55
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	100	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	11:50	**Total Volume Purged (liters):**	7.2	**Sample ID:**	G6M-97-28X-FAL24	**Sample Time:**	12:30
Purge End Time:	12:30	**Well Volumes Purged (total):**	0.26	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
11:55	0	180	mL/min	62.55	6.2	0.422	50	6.12	12.5	35	Clear	Slight
12:00	5	180	mL/min	62.55	6.46	0.544	37.18	1.51	12.4	-39.23	Clear	No Odor
12:05	10	180	mL/min	62.5	6.57	0.553	37.53	0.84	12.5	-73.3	Clear	No Odor
12:10	15	180	mL/min	62.47	6.61	0.55	51.71	0.64	12.2	-87.5	Clear	No Odor
12:15	20	180	mL/min	62.45	6.63	0.548	19.33	0.52	12.2	-97.6	Clear	No Odor
12:20	25	180	mL/min	62.43	6.65	0.543	21.78	0.44	12.3	-103.4	Clear	No Odor
12:25	30	180	mL/min	62.4	6.66	0.547	21.35	0.4	12.3	-104.1	Clear	No Odor
12:30	35	180	mL/min	62.38	6.65	0.548	21.62	0.37	12	-101.5	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3

Comments: None

Well Information:

Well Labeled Properly: NA

Is Well in Good Condition? NA

Well Inspection Comments: NA

Groundwater Sampling Form

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Location ID:	MW-3	**Date(s):**	2024-11-12	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:48.29 °F, rH:53%, Clouds: 75%, Wind:24.16mph N-NW			**Field Technician:**		Elisabeth Arnold	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	126.00-136.00	**Casing Diameter (in):**	2	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	63.35	**Total Depth (ft-bmp):**	136	**Water Column(ft):**	72.65	**Gallons in Well:**	11.8
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	134	**Purge Method:**	Low-Flow	**Purging Equipment:**	Bladder
Purge Start Time:	09:45	**Total Volume Purged (gallons):**	3.37	**Sample ID:**	MW-3-FAL24	**Sample Time:**	11:00
Purge End Time:	11:10	**Well Volumes Purged (total):**	0.29	**Replicate Type / Replicate ID:**	**MS/MSD** / MW-3-FAL24	**Water Quality Meter/ ID:**	YSI 600 XLM Sonde 1.65' inch / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
										Color	Odor
09:45	0	150	mL/min	63.35	7.48	0.972	8.68	11.4	166.4	Clear	--
09:50	5	150	mL/min	63.35	6.52	1.039	3.48	11.7	-94.7	Clear	--
09:55	10	150	mL/min	63.35	6.47	1.033	2.07	11.6	-103.6	Clear	--
10:00	15	150	mL/min	63.35	6.48	1.032	1.65	11.7	-109.1	Clear	--
10:05	20	150	mL/min	63.35	6.48	1.023	1.43	11.6	-112.4	Clear	--
10:10	25	150	mL/min	63.35	6.48	1.016	1.3	11.7	-114.6	Clear	--
10:15	30	150	mL/min	63.35	6.48	1.004	1.22	11.6	-115.7	Clear	--
10:20	35	150	mL/min	63.35	6.48	0.992	1.16	11.5	-116.3	Clear	--
10:25	40	150	mL/min	63.35	6.48	0.985	1.11	11.6	-116.6	Clear	--
10:30	45	150	mL/min	63.35	6.48	0.992	1.06	11.8	-117.4	Clear	--
10:35	50	150	mL/min	63.35	6.48	0.985	1.03	11.7	-118.2	Clear	--
10:40	55	150	mL/min	63.35	6.48	0.982	1	11.8	-118.9	Clear	--
10:45	60	150	mL/min	63.35	6.48	0.974	0.98	11.7	-119.4	Clear	--
10:50	65	150	mL/min	63.35	6.49	0.971	0.96	11.7	-119.9	Clear	--
10:55	70	150	mL/min	63.35	6.49	0.96	0.93	11.5	-120.4	Clear	--

Constituent Sampled	Container	Number	Preservative
VOCs	Clear Glass	9	HCl
Metals (SW6020)	Plastic	3	HNO3
Metals (SW6010)	Plastic	3	HNO3

Comments: NA

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? no

Well Inspection Comments: NA

Groundwater Sampling Form

Location ID:	MW-7	**Date(s):**	2024-11-12	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLOUDS, T:48.29 °F, rH:53%, Clouds: 75%, Wind:24.16mph N-NW			**Field Technician:**		Elisabeth Arnold	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	125.00-135.00	**Casing Diameter (in):**	2	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	63.4	**Total Depth (ft-bmp):**	135	**Water Column(ft):**	71.6	**Gallons in Well:**	11.63
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	133	**Purge Method:**	Low-Flow	**Purging Equipment:**	Bladder
Purge Start Time:	13:51	**Total Volume Purged (gallons):**	4.91	**Sample ID:**	MW-7-FAL24	**Sample Time:**	NA
Purge End Time:	15:55	**Well Volumes Purged (total):**	0.42	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI 600 XLM Sonde 1.65' inch / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
										Color	Odor
14:05	0	150	mL/min	63.40	6.82	0.762	5.42	12.5	-45.8	--	--
14:10	5	150	mL/min	63.40	6.53	0.898	2.61	12.1	-60.7	--	--
14:15	10	150	mL/min	63.40	6.47	0.903	1.72	12.1	-67.4	--	--
14:20	15	150	mL/min	63.40	6.4	0.923	1.35	11.7	-68	--	--
14:25	20	150	mL/min	63.40	6.36	0.927	1.18	11.6	-67.4	--	--
14:30	25	150	mL/min	63.40	6.34	0.919	1.11	11	-67.6	--	--
14:35	30	150	mL/min	63.40	6.33	0.927	1.02	11.2	-68	--	--
14:40	35	150	mL/min	63.40	6.32	0.925	0.98	11.2	-68.6	--	--
14:45	40	150	mL/min	63.40	6.3	0.93	0.94	11.1	-68.2	--	--
14:50	45	150	mL/min	63.40	6.29	0.931	0.91	10.9	-68.5	--	--
14:55	50	150	mL/min	63.40	6.28	0.939	0.89	11.1	-68.7	--	--
15:00	55	150	mL/min	63.40	6.28	0.937	0.86	11	-69	--	--
15:05	60	150	mL/min	63.40	6.27	0.924	0.86	10.7	-68.9	--	--
15:10	65	150	mL/min	63.40	6.26	0.932	0.83	10.8	-68.9	--	--
15:15	70	150	mL/min	63.40	6.27	0.924	0.85	10.2	-70.2	--	--
15:20	75	150	mL/min	63.40	6.28	0.915	0.86	10.2	-70.6	--	--
15:25	80	150	mL/min	63.40	6.28	0.903	0.85	10.2	-70.7	--	--

Constituent Sampled	Container	Number	Preservative
VOCs	Clear Glass	3	HCl
Metals (SW6020)	Plastic	1	HNO3
Metals (SW6010)	Plastic	1	HNO3

Comments: NA

Well Information:

Well Labeled Properly:	yes
Is Well in Good Condition?	good
Well Inspection Comments:	NA

Groundwater Sampling Form

Location ID:	XSA-12-95X	**Date(s):**	2024-11-15	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:45.21 °F, rH:32%, Clouds: 0%, Wind:13.8mph NW			**Field Technician:**		Diane Champagne	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	120.00-130.00	**Casing Diameter (in):**	1.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	68.47	**Total Depth (ft-bmp):**	130	**Water Column(ft):**	61.53	**Liters in Well:**	9.5
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	125	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	09:45	**Total Volume Purged (liters):**	9	**Sample ID:**	XSA-12-95X-FAL24	**Sample Time:**	10:50
Purge End Time:	10:46	**Well Volumes Purged (total):**	0.95	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / 19.c100564
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
09:50	0	150	mL/min	68.47	9.78	0.537	89.35	3.21	10.7	-135	Clear	No Odor
09:55	5	150	mL/min	68.47	9.89	0.574	81.5	2.52	10.8	-183.5	Clear	No Odor
10:00	10	150	mL/min	68.48	9.85	0.614	89.53	1.93	11.2	-217.3	Clear	No Odor
10:05	15	150	mL/min	67.48	9.77	0.626	57.62	1.75	11.4	-220.7	Clear	No Odor
10:10	20	150	mL/min	67.48	9.36	0.645	46.1	1.56	11.3	-206.3	Clear	No Odor
10:15	25	150	mL/min	67.48	8.75	0.679	45.39	1.47	11.4	-196.2	Clear	No Odor
10:20	30	150	mL/min	67.48	7.29	0.911	23.49	1.41	11.9	-146.5	Clear	No Odor
10:25	35	150	mL/min	67.48	6.98	0.949	23.87	1.39	12.2	-124.1	Clear	No Odor
10:31	41	150	mL/min	67.48	6.82	0.971	24.95	1.36	12.6	-108	Clear	No Odor
10:35	45	150	mL/min	67.48	6.74	0.993	24.13	1.32	13	-95.9	Clear	No Odor
10:40	50	150	mL/min	67.48	6.72	0.995	24.35	1.3	13	-92.6	Clear	No Odor
10:45	55	150	mL/min	67.48	6.69	1.012	24.05	1.28	13.1	-88	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

Groundwater Sampling Form

Location ID:	XSA-12-96X	**Date(s):**	2024-11-13	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:43.95 °F, rH:35%, Clouds: 0%, Wind:6.91mph N			**Field Technician:**		Allyson Fenton	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	120.00-130.00	**Casing Diameter (in):**	1.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	68.99	**Total Depth (ft-bmp):**	130	**Water Column(ft):**	61.01	**Liters in Well:**	9.42
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	125	**Purge Method:**	Low Flow	**Purging Equipment:**	Portable Bladder
Purge Start Time:	13:45	**Total Volume Purged (liters):**	11.9	**Sample ID:**	XSA-12-96X-FAL24	**Sample Time:**	15:10
Purge End Time:	15:10	**Well Volumes Purged (total):**	1.26	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm^c)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
13:50	0	140	mL/min	64	9.25	0.726	42.8	1.09	11.4	-206	Clear	No Odor
13:55	5	140	mL/min	64	9.39	0.733	61	0.56	11.2	-237.4	Clear	No Odor
14:00	10	140	mL/min	64	9.08	0.764	55.7	0.35	11.1	-229.8	Clear	No Odor
14:05	15	140	mL/min	64	8.74	0.806	24.4	0.29	11	-231.7	Clear	No Odor
14:10	20	140	mL/min	64	8.64	0.82	28.4	0.24	11	-248	Clear	No Odor
14:15	25	140	mL/min	64	8.6	0.827	22.5	0.22	10.8	-264.6	Clear	No Odor
14:20	30	140	mL/min	64	8.48	0.833	20.6	0.2	10.8	-265.4	Clear	No Odor
14:25	35	140	mL/min	64	8.07	0.855	19.5	0.19	10.8	-235.6	Clear	No Odor
14:30	40	140	mL/min	64	7.47	0.917	21.07	0.18	10.8	-188	Clear	No Odor
14:35	45	140	mL/min	64	7.04	0.993	18.71	0.17	10.8	-144.1	Clear	No Odor
14:40	50	140	mL/min	64	6.82	1.043	19.61	0.16	10.8	-108.4	Clear	No Odor
14:45	55	140	mL/min	64	6.73	1.069	16.83	0.16	10.8	-91.1	Clear	No Odor
14:50	60	140	mL/min	64	6.66	1.091	17.48	0.15	10.7	-76.8	Clear	No Odor
14:55	65	140	mL/min	64	6.6	1.105	12.05	0.15	10.7	-65.5	Clear	No Odor
15:00	70	140	mL/min	64	6.58	1.111	14.08	0.14	10.7	-59.4	Clear	No Odor
15:05	75	140	mL/min	64	6.57	1.116	12.03	0.13	10.7	-55.3	Clear	No Odor
15:10	80	140	mL/min	64	6.57	1.115	12.9	0.13	10.6	-52.9	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly:	NA
Is Well in Good Condition?	NA
Well Inspection Comments:	NA

Groundwater Sampling Form

Location ID:	XSA-12-98X	**Date(s):**	2024-11-15	**Work Order(s):**		Fall 2024 LTM	
Client:	USACE	**Facility:**	Devens	**Facility Location:**	Devens, MA, USA	**Area:**	AOC 50
Weather(°F):	CLEAR, T:50.13 °F, rH:26%, Clouds: 0%, Wind:11.5mph W-NW			**Field Technician:**		Casey Shultis	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	60.00-70.00	**Casing Diameter (in):**	1.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	10.21	**Total Depth (ft-bmp):**	70	**Water Column(ft):**	59.79	**Liters in Well:**	9.23
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	75	**Purge Method:**	Low Flow	**Purging Equipment:**	Peristaltic Pump
Purge Start Time:	11:03	**Total Volume Purged (liters):**	3.045	**Sample ID:**	XSA-12-98X-FAL24	**Sample Time:**	11:40
Purge End Time:	11:32	**Well Volumes Purged (total):**	0.33	**Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Not Applicable,YSI Pro DSS / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
11:20	0	105	mL/min	11.31	8.24	0.228	0.23	1.07	13	-142.2	Clear	No Odor
11:23	3	105	mL/min	11.31	8.23	0.229	0.09	1.08	13.1	-138.5	Clear	No Odor
11:26	6	105	mL/min	13.32	8.23	0.228	0.69	1.07	12.9	-134.3	Clear	No Odor
11:29	9	105	mL/min	13.32	8.22	0.229	1.14	1.07	12.8	-132.6	Clear	No Odor
11:32	12	105	mL/min	13.32	8.2	0.228	0.95	1.06	12.6	-129.8	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6010, SW6020)	Plastic	2	HNO3
VOCs (8260)	Clear Glass	3	HCl

Comments: None

Well Information:

Well Labeled Properly: no

Is Well in Good Condition? good

Well Inspection Comments: NA

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME	Fall 2024 LTM
PROJECT NUMBER	30167457
MODEL	YSI ProDSS
SERIAL NUMBER	16C100431
SAMPLER	Spencer
DATE	11/07/2024

SINGLE POINT CALIBRATION

LOT NUMBER				
EXPIRATION DATE				
PARAMETERS	PRE-CALIBRATION	POST-CALIBRATION	SINGLE POINT CALIBRATION WITHIN RANGE	TIME
pH	7	7	--	08:49
pH	10.02	10	--	08:50
pH	4.02	4	--	08:52
Conductivity	1.447	1.413	--	08:44
ORP	232.3	231	--	08:46
DO	99	99.4	--	08:55

[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE QUALITY METER

NOTES:

SIGNED

11/7/2024
DATE

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME	Fall 2024 LTM
PROJECT NUMBER	30167457
MODEL	YSI ProDSS
SERIAL NUMBER	19C100564
SAMPLER	Diane Champagne
DATE	11/07/2024

SINGLE POINT CALIBRATION

LOT NUMBER	
EXPIRATION DATE	

PARAMETERS	PRE-CALIBRATION	POST-CALIBRATION	SINGLE POINT CALIBRATION WITHIN RANGE	TIME
pH	7.03	7	yes	07:18
pH	4.06	4	yes	07:20
pH	9.91	9.98	yes	07:23
Conductivity	1.475	1.413	yes	07:12
ORP	253.3	241	yes	07:24
DO	99.1	99.1	yes	07:16
Turbidity	0.1	0	yes	07:24
Turbidity	19.92	20	yes	07:25
Turbidity	99.2	100	yes	07:26

[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE QUALITY METER

NOTES:

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11/7/2024
DATE

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME	NE Devens TO LTM RAO SJV
PROJECT NUMBER	30167457
MODEL	YSI ProDSS
SERIAL NUMBER	19C100564
SAMPLER	Diane Champagne
DATE	11/08/2024

SINGLE POINT CALIBRATION

LOT NUMBER				
EXPIRATION DATE				
PARAMETERS	PRE-CALIBRATION	POST-CALIBRATION	SINGLE POINT CALIBRATION WITHIN RANGE	TIME
pH	7.07	7	yes	07:24
pH	4.07	4	yes	07:27
pH	9.99	9.99	yes	07:29
Conductivity	1.469	1.413	yes	07:32
ORP	255.5	240.1	yes	07:39
DO	98.9	99	yes	07:44
Turbidity	0.42	0	yes	07:39
Turbidity	17.2	20	yes	07:46
Turbidity	99	100	yes	07:49

[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE QUALITY METER

NOTES:

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11/8/2024
DATE

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME	NE Devens TO LTM RAO SJV
PROJECT NUMBER	30167457
MODEL	YSI ProDSS
SERIAL NUMBER	
SAMPLER	Diane Champagne
DATE	11/11/2024

SINGLE POINT CALIBRATION

LOT NUMBER				
EXPIRATION DATE				
PARAMETERS	PRE-CALIBRATION	POST-CALIBRATION	SINGLE POINT CALIBRATION WITHIN RANGE	TIME
pH	3.98	4	yes	15:42
pH	6.94	7.02	yes	15:44
pH	7.07	9.96	yes	16:37
Conductivity	--	--	--	--
ORP	237.5	239	yes	08:43
DO	--	--	--	--

[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE QUALITY METER

NOTES:

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11/11/2024
DATE

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME	NE Devens TO LTM RAO SJV
PROJECT NUMBER	30167457
MODEL	YSI ProDSS
SERIAL NUMBER	19D101594
SAMPLER	Allyson Fenton
DATE	11/11/2024

SINGLE POINT CALIBRATION

LOT NUMBER				
EXPIRATION DATE				
PARAMETERS	PRE-CALIBRATION	POST-CALIBRATION	SINGLE POINT CALIBRATION WITHIN RANGE	TIME
pH	4.15	4	yes	11:32
pH	7.01	7.03	yes	11:36
pH	9.98	10.08	yes	11:39
Conductivity	1.512	1.413	yes	11:45
ORP	234.8	232.7	yes	11:42
DO	94.5	98.9	yes	11:48

[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE QUALITY METER

NOTES:

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11/11/2024
DATE

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME	NE Devens TO LTM RAO SJV
PROJECT NUMBER	30167457
MODEL	YSI ProDSS
SERIAL NUMBER	19C100564
SAMPLER	Diane Champagne
DATE	11/12/2024

SINGLE POINT CALIBRATION

LOT NUMBER				
EXPIRATION DATE				
PARAMETERS	PRE-CALIBRATION	POST-CALIBRATION	SINGLE POINT CALIBRATION WITHIN RANGE	TIME
pH	7.08	7	yes	07:37
pH	4.11	4	yes	07:58
pH	9.93	9.98	yes	07:44
Conductivity	1.445	1.413	yes	07:33
ORP	247.7	240	yes	07:35
DO	99.8	99.8	yes	07:56
Turbidity	0.59	0	yes	07:41
Turbidity	19.58	20	yes	07:42
Turbidity	95.7	100	yes	07:45

[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE QUALITY METER

NOTES:

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11/12/2024
DATE

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME	NE Devens TO LTM RAO SJV
PROJECT NUMBER	30167457
MODEL	YSI ProDSS
SERIAL NUMBER	19C100564
SAMPLER	Diane Champagne
DATE	11/13/2024

SINGLE POINT CALIBRATION

LOT NUMBER				
EXPIRATION DATE				
PARAMETERS	PRE-CALIBRATION	POST-CALIBRATION	SINGLE POINT CALIBRATION WITHIN RANGE	TIME
pH	7.01	7	yes	11:57
pH	3.96	4	yes	11:58
pH	9.82	9.97	yes	12:01
Conductivity	1.113	1.413	yes	12:04
ORP	249.9	240	yes	12:05
DO	99.9	99.9	yes	12:00
Turbidity	0.33	0	yes	12:07
Turbidity	21.3	20	yes	12:09
Turbidity	109	100	yes	12:10

[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE QUALITY METER

NOTES:

SIGNED

11/13/2024
DATE

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME	NE Devens TO LTM RAO SJV
PROJECT NUMBER	30167457
MODEL	YSI ProDSS
SERIAL NUMBER	19C100564
SAMPLER	Diane Champagne
DATE	11/14/2024

SINGLE POINT CALIBRATION

LOT NUMBER				
EXPIRATION DATE				
PARAMETERS	PRE-CALIBRATION	POST-CALIBRATION	SINGLE POINT CALIBRATION WITHIN RANGE	TIME
pH	7.13	7	yes	07:17
pH	4.1	4	yes	07:20
pH	9.95	9.98	yes	07:23
Conductivity	1.427	1.412	yes	07:25
ORP	247.3	241	yes	07:10
DO	99.6	99.7	yes	07:36
Turbidity	0.36	0	yes	07:26
Turbidity	16.7	20	yes	07:28
Turbidity	127	100	yes	07:31

[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE QUALITY METER

NOTES:

SIGNED

11/14/2024
DATE

WATER QUALITY METER CALIBRATION LOG

PROJECT NAME	NE Devens TO LTM RAO SJV
PROJECT NUMBER	30167457
MODEL	YSI ProDSS
SERIAL NUMBER	19C100564
SAMPLER	Diane Champagne
DATE	11/15/2024

SINGLE POINT CALIBRATION

LOT NUMBER				
EXPIRATION DATE				
PARAMETERS	PRE-CALIBRATION	POST-CALIBRATION	SINGLE POINT CALIBRATION WITHIN RANGE	TIME
pH	7.26	7	yes	07:18
pH	4.12	4	yes	07:18
pH	10.06	10	yes	07:19
Conductivity	1.437	1.414	yes	07:22
ORP	239	240.1	yes	07:23
DO	98.8	99.2	yes	07:33
Turbidity	0.27	0	yes	07:35
Turbidity	18.3	20	yes	07:35
Turbidity	116	100	yes	07:39

[1] CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE QUALITY METER

NOTES:

SIGNED

11/15/2024
DATE

Appendix B

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Heather Levesque
Seres Engineering & Services LLC
669 Marina Drive
Suite B7
Charleston, South Carolina 29492

Generated 11/5/2024 5:45:20 PM Revision 3

JOB DESCRIPTION

Seres-Arcadis JV, LTM, AOC 50, Spring 2024

JOB NUMBER

680-249958-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

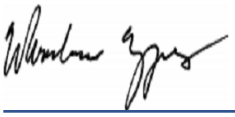
my EOL

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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Revision 3

Authorized for release by
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Designee for
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(912)250-0281

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC VOA

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.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

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.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Seres Engineering & Services LLC
Job ID: 680-249958-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-249958-1	AOC50-DUP01-SPR24-LTM	Water	04/22/24 10:55	04/26/24 10:25
680-249958-2	G6M-04-02X-SPR24-LTM	Water	04/23/24 10:20	04/26/24 10:25
680-249958-3	G6M-04-07X-SPR24-LTM	Water	04/22/24 11:55	04/26/24 10:25
680-249958-4	G6M-04-10A-SPR24-LTM	Water	04/22/24 13:15	04/26/24 10:25
680-249958-5	G6M-07-02X-SPR24-LTM	Water	04/22/24 10:55	04/26/24 10:25
680-249958-6	G6M-13-01X-SPR24-LTM	Water	04/23/24 14:45	04/26/24 10:25
680-249958-7	G6M-13-02X-SPR24-LTM	Water	04/23/24 12:10	04/26/24 10:25
680-249958-8	G6M-13-05X-SPR24-LTM	Water	04/22/24 16:00	04/26/24 10:25
680-249958-9	G6M-97-05B-SPR24-LTM	Water	04/23/24 12:25	04/26/24 10:25
680-249958-10	XSA-12-96X-SPR24-LTM	Water	04/22/24 14:55	04/26/24 10:25
680-249958-11	AOC50-RB01-SPR24-LTM	Water	04/24/24 07:30	04/26/24 10:25
680-249958-12	AOC50-TB-SPR24-LTM	Water	04/22/24 00:00	04/26/24 10:25

Job Narrative
680-249958-1

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.

Revision
The report being provided is a revision of the original report sent on 5/22/2024. The report (revision 1) is being revised due to: Dissolved metals by 6010 missed for sample G6M-04-07X-SPR24-LTM (680-249958-3).

Receipt
The samples were received on 4/26/2024 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 4.2°C.

GC/MS VOA
Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-836369 recovered above the upper control limit for Bromomethane, Chloroethane and Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-836369 recovered outside acceptance criteria, low biased, for Bromoform. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D_DOD5: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-836369 recovered outside control limits for the following analyte: Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The CCVC associated with batch 680-836369 recovered outside acceptance criteria, low biased, for Vinyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-836163 recovered above the upper control limit for Bromomethane, Carbon disulfide, Chloroethane, Chloromethane, Dichlorodifluoromethane, trans-1,2-Dichloroethene, 1,1-Dichloroethene, 2,2-Dichloropropane, Trichlorofluoromethane and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-836163 recovered outside acceptance criteria, low biased, for Bromoform, 2-Butanone (MEK), 1,2-Dibromo-3-Chloropropane, 2-Hexanone and 4-Methyl-2-pentanone (MIBK). A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D_DOD5: The laboratory control sample (LCS) for analytical batch 680-836163 recovered outside control limits for the following analytes: Bromomethane, Carbon disulfide, trans-1,2-Dichloroethene, 1,1-Dichloroethene and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The laboratory control sample duplicate (LCSD) for analytical batch 680-836163 recovered outside control limits for the following analytes: Bromomethane, Carbon disulfide, 1,1-Dichloroethene and Vinyl acetate. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The method blank for analytical batch 680-836163 contained n-Butylbenzene, Hexachlorobutadiene and

1,2,4-Trichlorobenzene above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than half of the reporting limit (RL).

Method 8260D_DOD5: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-836369 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 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-836369 recovered outside acceptance criteria, low biased, for Vinyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D_DOD5: The method blank for analytical batch 680-836473 contained n-Butylbenzene, Hexachlorobutadiene, Styrene, 1,2,4-Trichlorobenzene and o-Xylene above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-836473 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-836473 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-836473 recovered outside control limits for the following analytes: Vinyl acetate.

Method 8260D_DOD5: The reporting limit (RL) provided for the following samples falls below the laboratory's verified standard quantitation limit for Vinyl acetate: G6M-04-07X-SPR24-LTM (680-249958-3), G6M-04-10A-SPR24-LTM (680-249958-4), G6M-07-02X-SPR24-LTM (680-249958-5), G6M-13-05X-SPR24-LTM (680-249958-8) and XSA-12-96X-SPR24-LTM (680-249958-10). Results reported below the verified standard quantitation limit have less certainty (i.e., are estimated) and must be used at the client's discretion. The continuing calibration blanks and method blanks may not support the lower RL.

Method 8260D_DOD5: The initial calibration verification (ICV) analyzed in batch 680-836351 was outside method criteria for the following analyte(s): Carbon disulfide and Vinyl acetate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. The data has been qualified and reported.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-836681 recovered above the upper control limit for Carbon disulfide and Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The laboratory control sample duplicate (LCSD) for analytical batch 680-836681 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-836681 recovered outside control limits for the following analytes: Dichlorodifluoromethane.

Method 8260D_DOD5: The method blank for 680-836681 contained Bromobenzene, Hexachlorobutadiene and 1,2,4-Trichlorobenzene above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

Method 8260D_DOD5: The laboratory control sample (LCS) for analytical batch 680-836681 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The continuing calibration verification closing (CCVC) associated with batch 680-836681 recovered outside acceptance criteria, low biased, for Vinyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D_DOD5: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD)

associated with analytical batch 680-836681.

Method 8260D_DOD5: The reporting limit (RL) provided for the following samples falls below the laboratory's verified standard quantitation limit for Vinyl acetate: G6M-13-02X-SPR24-LTM (680-249958-7) and AOC50-RB01-SPR24-LTM (680-249958-11). Results reported below the verified standard quantitation limit have less certainty (i.e., are estimated) and must be used at the client's discretion. The continuing calibration blanks and method blanks may not support the lower RL.

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

GC VOA
Method RSK_175_DOD5: Due to the high concentration of Methane (TCD), the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 680-836209 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

HPLC/IC
Method 9056A_OF_28D_D5: The following samples were diluted due to the abundance of non-target analytes: G6M-13-01X-SPR24-LTM (680-249958-6), G6M-13-02X-SPR24-LTM (680-249958-7), G6M-13-05X-SPR24-LTM (680-249958-8) and G6M-97-05B-SPR24-LTM (680-249958-9). 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.

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

General Chemistry
Method 353.2_Pres: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 680-835695 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 353.2_Pres: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-835695 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 353.2_Pres: The instrument blank for analytical batch 680-836620 contained nitrate nitrite as N greater than the method detection limit (MDL), and were not reanalyzed because the amount was < 1/2 the RL. The data have been qualified and reported.

Method 9034_DoD: The following samples were analyzed outside of analytical holding time due to scheduling error: AOC50-DUP01-SPR24-LTM (680-249958-1), G6M-04-10A-SPR24-LTM (680-249958-4), G6M-04-10A-SPR24-LTM (680-249958-4[MS]), G6M-04-10A-SPR24-LTM (680-249958-4[MSD]), G6M-07-02X-SPR24-LTM (680-249958-5) and G6M-13-05X-SPR24-LTM (680-249958-8).

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

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: AOC50-DUP01-SPR24-LTM
Date Collected: 04/22/24 10:55
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		05/03/24 20:24	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		05/03/24 20:24	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		05/03/24 20:24	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/03/24 20:24	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/03/24 20:24	1
Bromoform	2.0	U Q	2.5	2.0	0.59	ug/L		05/03/24 20:24	1
Bromomethane	10	U Q	20	10	3.7	ug/L		05/03/24 20:24	1
2-Butanone (MEK)	20	U Q	25	20	6.4	ug/L		05/03/24 20:24	1
n-Butylbenzene	**0.63**	**J**	2.5	2.0	0.52	ug/L		05/03/24 20:24	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/03/24 20:24	1
tert-Butylbenzene	1.0	U M	2.0	1.0	0.43	ug/L		05/03/24 20:24	1
Carbon disulfide	1.0	U Q	2.0	1.0	0.43	ug/L		05/03/24 20:24	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		05/03/24 20:24	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/03/24 20:24	1
Chloroethane	10	U Q	20	10	4.6	ug/L		05/03/24 20:24	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/03/24 20:24	1
Chloromethane	2.0	U Q	2.5	2.0	0.54	ug/L		05/03/24 20:24	1
2-Chlorotoluene	0.50	U M	1.0	0.50	0.25	ug/L		05/03/24 20:24	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		05/03/24 20:24	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/03/24 20:24	1
1,2-Dibromo-3-Chloropropane	5.0	U Q	10	5.0	1.8	ug/L		05/03/24 20:24	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/03/24 20:24	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/03/24 20:24	1
1,2-Dichlorobenzene	1.0	U M	2.0	1.0	0.31	ug/L		05/03/24 20:24	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/03/24 20:24	1
1,4-Dichlorobenzene	1.0	U M	2.0	1.0	0.31	ug/L		05/03/24 20:24	1
Dichlorodifluoromethane	1.0	U Q	2.0	1.0	0.36	ug/L		05/03/24 20:24	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/03/24 20:24	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/03/24 20:24	1
cis-1,2-Dichloroethene	**0.84**	**J**	2.0	1.0	0.25	ug/L		05/03/24 20:24	1
trans-1,2-Dichloroethene	1.0	U Q	2.0	1.0	0.34	ug/L		05/03/24 20:24	1
1,2-Dichloroethene, Total	**0.84**	**J**	2.0	1.0	0.37	ug/L		05/03/24 20:24	1
1,1-Dichloroethene	1.0	U Q	2.0	1.0	0.33	ug/L		05/03/24 20:24	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		05/03/24 20:24	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/03/24 20:24	1
2,2-Dichloropropane	1.0	U Q	2.0	1.0	0.35	ug/L		05/03/24 20:24	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/03/24 20:24	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/03/24 20:24	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/03/24 20:24	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		05/03/24 20:24	1
Hexachlorobutadiene	**0.47**	**J**	5.0	1.0	0.22	ug/L		05/03/24 20:24	1
2-Hexanone	10	U Q	20	10	3.2	ug/L		05/03/24 20:24	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/03/24 20:24	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/03/24 20:24	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/03/24 20:24	1
4-Methyl-2-pentanone (MIBK)	10	U Q	20	10	2.7	ug/L		05/03/24 20:24	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/03/24 20:24	1
Naphthalene	**3.0**	**J**	10	5.0	2.4	ug/L		05/03/24 20:24	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		05/03/24 20:24	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: AOC50-DUP01-SPR24-LTM
Date Collected: 04/22/24 10:55
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		05/03/24 20:24	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/03/24 20:24	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/03/24 20:24	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		05/03/24 20:24	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		05/03/24 20:24	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/03/24 20:24	1
1,2,4-Trichlorobenzene	**0.56**	**J**	5.0	2.0	0.53	ug/L		05/03/24 20:24	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/03/24 20:24	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/03/24 20:24	1
Trichloroethene	0.50	U M	1.0	0.50	0.20	ug/L		05/03/24 20:24	1
Trichlorofluoromethane	1.0	U Q	2.0	1.0	0.33	ug/L		05/03/24 20:24	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/03/24 20:24	1
1,2,4-Trimethylbenzene	**0.79**	**J**	2.0	1.0	0.43	ug/L		05/03/24 20:24	1
1,3,5-Trimethylbenzene	**0.30**	**J M**	2.0	1.0	0.28	ug/L		05/03/24 20:24	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		05/03/24 20:24	1
Vinyl chloride	1.0	U Q	2.0	1.0	0.40	ug/L		05/03/24 20:24	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		05/03/24 20:24	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		05/03/24 20:24	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		05/03/24 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*89 - 112*		*05/03/24 20:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*81 - 118*		*05/03/24 20:24*	*1*
4-Bromofluorobenzene (Surr)	*94*		*85 - 114*		*05/03/24 20:24*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*05/03/24 20:24*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**2.0**		1.1	0.76	0.30	ug/L		05/03/24 18:44	1
Ethylene	**2.1**	**M**	1.0	0.71	0.31	ug/L		05/03/24 18:44	1
Methane (TCD)	**15000**		390	77	39	ug/L		05/03/24 18:44	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	1.0	0.40	mg/L		05/09/24 12:13	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Aluminum	150	U	200	150	54	ug/L		04/29/24 21:53	1
Iron	**77000**		100	50	20	ug/L		04/29/24 21:53	1
Manganese	**2700**		10	5.0	1.3	ug/L		04/29/24 21:53	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**32**		5.0	3.0	0.86	ug/L		04/30/24 16:54	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**61**		5.5	5.0	2.2	mg/L		04/30/24 00:10	1

Client: Seres Engineering & Services LLC
Job ID: 680-249958-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Client Sample ID: AOC50-DUP01-SPR24-LTM
Lab Sample ID: 680-249958-1
Date Collected: 04/22/24 10:55
Matrix: Water
Date Received: 04/26/24 10:25

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	**0.12**		0.10	0.025	0.010	mg/L		05/06/24 13:49	1
Sulfide (SW846 9034)	1.7	U H	2.1	1.7	0.83	mg/L		04/30/24 15:01	1
Total Organic Carbon (SW846 9060A)	**68**		1.0	1.0	0.50	mg/L		04/30/24 23:18	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: G6M-04-02X-SPR24-LTM
Date Collected: 04/23/24 10:20
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		05/03/24 20:46	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		05/03/24 20:46	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		05/03/24 20:46	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/03/24 20:46	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/03/24 20:46	1
Bromoform	2.0	U Q	2.5	2.0	0.59	ug/L		05/03/24 20:46	1
Bromomethane	10	U Q	20	10	3.7	ug/L		05/03/24 20:46	1
2-Butanone (MEK)	20	U Q	25	20	6.4	ug/L		05/03/24 20:46	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		05/03/24 20:46	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/03/24 20:46	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/03/24 20:46	1
Carbon disulfide	1.0	U Q	2.0	1.0	0.43	ug/L		05/07/24 18:26	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		05/03/24 20:46	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/03/24 20:46	1
Chloroethane	10	U Q	20	10	4.6	ug/L		05/03/24 20:46	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/03/24 20:46	1
Chloromethane	2.0	U Q	2.5	2.0	0.54	ug/L		05/03/24 20:46	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		05/03/24 20:46	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		05/03/24 20:46	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/03/24 20:46	1
1,2-Dibromo-3-Chloropropane	5.0	U Q	10	5.0	1.8	ug/L		05/03/24 20:46	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/03/24 20:46	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/03/24 20:46	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/03/24 20:46	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/03/24 20:46	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/03/24 20:46	1
Dichlorodifluoromethane	1.0	U Q	2.0	1.0	0.36	ug/L		05/03/24 20:46	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/03/24 20:46	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/03/24 20:46	1
cis-1,2-Dichloroethene	**48**		2.0	1.0	0.25	ug/L		05/03/24 20:46	1
trans-1,2-Dichloroethene	**0.79**	**J**	2.0	1.0	0.34	ug/L		05/07/24 18:26	1
1,2-Dichloroethene, Total	**48**		2.0	1.0	0.37	ug/L		05/03/24 20:46	1
1,1-Dichloroethene	1.0	U Q	2.0	1.0	0.33	ug/L		05/03/24 20:46	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		05/03/24 20:46	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/03/24 20:46	1
2,2-Dichloropropane	1.0	U Q	2.0	1.0	0.35	ug/L		05/03/24 20:46	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/03/24 20:46	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/03/24 20:46	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/03/24 20:46	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		05/03/24 20:46	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		05/03/24 20:46	1
2-Hexanone	10	U Q	20	10	3.2	ug/L		05/03/24 20:46	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/03/24 20:46	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/03/24 20:46	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/03/24 20:46	1
4-Methyl-2-pentanone (MIBK)	10	U Q	20	10	2.7	ug/L		05/03/24 20:46	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/03/24 20:46	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		05/03/24 20:46	1
N-Propylbenzene	1.0	U M	2.0	1.0	0.41	ug/L		05/03/24 20:46	1

Client Sample ID: G6M-04-02X-SPR24-LTM
Lab Sample ID: 680-249958-2

Date Collected: 04/23/24 10:20
Matrix: Water
Date Received: 04/26/24 10:25

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		05/03/24 20:46	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/03/24 20:46	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/03/24 20:46	1
Tetrachloroethene	**17**		2.0	1.0	0.35	ug/L		05/03/24 20:46	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		05/03/24 20:46	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/03/24 20:46	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		05/03/24 20:46	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/03/24 20:46	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/03/24 20:46	1
Trichloroethene	**30**		1.0	0.50	0.20	ug/L		05/03/24 20:46	1
Trichlorofluoromethane	1.0	U Q	2.0	1.0	0.33	ug/L		05/03/24 20:46	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/03/24 20:46	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/03/24 20:46	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		05/03/24 20:46	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		05/03/24 20:46	1
Vinyl chloride	**6.1**		2.0	1.0	0.40	ug/L		05/07/24 18:26	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		05/03/24 20:46	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		05/03/24 20:46	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		05/03/24 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*89 - 112*		*05/03/24 20:46*	*1*
Toluene-d8 (Surr)	*103*		*89 - 112*		*05/07/24 18:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*81 - 118*		*05/03/24 20:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*81 - 118*		*05/07/24 18:26*	*1*
4-Bromofluorobenzene (Surr)	*95*		*85 - 114*		*05/03/24 20:46*	*1*
4-Bromofluorobenzene (Surr)	*105*		*85 - 114*		*05/07/24 18:26*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 119*		*05/03/24 20:46*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 119*		*05/07/24 18:26*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**9.2**		1.1	0.76	0.30	ug/L		05/03/24 18:56	1
Ethylene	**16**		1.0	0.71	0.31	ug/L		05/03/24 18:56	1
Methane (TCD)	**24000**		390	77	39	ug/L		05/03/24 18:56	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	**9.7**	**J D**	15	10	4.0	mg/L		05/09/24 12:32	10

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Aluminum	150	U	200	150	54	ug/L		04/29/24 21:41	1
Iron	**22000**		100	50	20	ug/L		04/29/24 21:41	1
Manganese	**13000**		10	5.0	1.3	ug/L		04/29/24 21:41	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**59**		5.0	3.0	0.86	ug/L		04/30/24 16:40	1

Client: Seres Engineering & Services LLC
Job ID: 680-249958-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Client Sample ID: G6M-04-02X-SPR24-LTM
Lab Sample ID: 680-249958-2
Date Collected: 04/23/24 10:20
Matrix: Water
Date Received: 04/26/24 10:25

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	91		5.5	5.0	2.2	mg/L		04/30/24 03:11	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	0.054	J	0.10	0.025	0.010	mg/L		04/30/24 14:39	1
Sulfide (SW846 9034)	1.8	U	2.2	1.8	0.89	mg/L		04/30/24 15:01	1
Total Organic Carbon (SW846 9060A)	5.3		1.0	1.0	0.50	mg/L		04/30/24 23:42	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: G6M-04-07X-SPR24-LTM
Date Collected: 04/22/24 11:55
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		05/06/24 16:45	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		05/06/24 16:45	1
Bromobenzene	**0.24**	**J**	1.0	0.50	0.24	ug/L		05/06/24 16:45	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/06/24 16:45	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/06/24 16:45	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		05/06/24 16:45	1
Bromomethane	10	U	20	10	3.7	ug/L		05/06/24 16:45	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		05/06/24 16:45	1
n-Butylbenzene	**0.55**	**J**	2.5	2.0	0.52	ug/L		05/06/24 16:45	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/06/24 16:45	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/06/24 16:45	1
Carbon disulfide	1.0	U Q	2.0	1.0	0.43	ug/L		05/06/24 16:45	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		05/06/24 16:45	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/06/24 16:45	1
Chloroethane	10	U	20	10	4.6	ug/L		05/06/24 16:45	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/06/24 16:45	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		05/06/24 16:45	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		05/06/24 16:45	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		05/06/24 16:45	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/06/24 16:45	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		05/06/24 16:45	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 16:45	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/06/24 16:45	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 16:45	1
1,3-Dichlorobenzene	**0.34**	**J**	2.0	1.0	0.31	ug/L		05/06/24 16:45	1
1,4-Dichlorobenzene	**0.36**	**J M**	2.0	1.0	0.31	ug/L		05/06/24 16:45	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 16:45	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 16:45	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/06/24 16:45	1
cis-1,2-Dichloroethene	**51**		2.0	1.0	0.25	ug/L		05/06/24 16:45	1
trans-1,2-Dichloroethene	**0.78**	**J**	2.0	1.0	0.34	ug/L		05/06/24 16:45	1
1,2-Dichloroethene, Total	**52**		2.0	1.0	0.37	ug/L		05/06/24 16:45	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 16:45	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		05/06/24 16:45	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 16:45	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		05/06/24 16:45	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/06/24 16:45	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/06/24 16:45	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/06/24 16:45	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		05/06/24 16:45	1
Hexachlorobutadiene	**0.69**	**J**	5.0	1.0	0.22	ug/L		05/06/24 16:45	1
2-Hexanone	10	U	20	10	3.2	ug/L		05/06/24 16:45	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/06/24 16:45	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/06/24 16:45	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/06/24 16:45	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		05/06/24 16:45	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/06/24 16:45	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		05/06/24 16:45	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		05/06/24 16:45	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: G6M-04-07X-SPR24-LTM
Date Collected: 04/22/24 11:55
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		05/06/24 16:45	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 16:45	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/06/24 16:45	1
Tetrachloroethene	**1.8**	**J**	2.0	1.0	0.35	ug/L		05/06/24 16:45	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		05/06/24 16:45	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/06/24 16:45	1
1,2,4-Trichlorobenzene	**0.71**	**J**	5.0	2.0	0.53	ug/L		05/06/24 16:45	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/06/24 16:45	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/06/24 16:45	1
Trichloroethene	**7.7**		1.0	0.50	0.20	ug/L		05/06/24 16:45	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 16:45	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/06/24 16:45	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/06/24 16:45	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		05/06/24 16:45	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		05/06/24 16:45	1
Vinyl chloride	**7.8**		2.0	1.0	0.40	ug/L		05/06/24 16:45	1
o-Xylene	**0.32**	**J**	2.0	1.0	0.26	ug/L		05/06/24 16:45	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		05/06/24 16:45	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		05/06/24 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*89 - 112*		*05/06/24 16:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*81 - 118*		*05/06/24 16:45*	*1*
4-Bromofluorobenzene (Surr)	*106*		*85 - 114*		*05/06/24 16:45*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*05/06/24 16:45*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**0.60**	**J**	1.1	0.76	0.30	ug/L		05/03/24 19:09	1
Ethylene	**0.53**	**J**	1.0	0.71	0.31	ug/L		05/03/24 19:09	1
Methane	**130**		1.2	1.2	0.57	ug/L		05/03/24 19:09	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	**5.3**	**D**	3.0	2.0	0.80	mg/L		05/09/24 12:39	2

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**1200**		100	50	20	ug/L		04/29/24 22:05	1
Manganese	**3600**		10	5.0	1.3	ug/L		04/29/24 22:05	1
Aluminum	150	U	200	150	54	ug/L		04/29/24 22:05	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**6.1**		5.0	3.0	0.86	ug/L		04/30/24 17:08	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon (SW846 9060A)	**1.6**		1.0	1.0	0.50	mg/L		05/01/24 00:05	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: G6M-04-10A-SPR24-LTM
Date Collected: 04/22/24 13:15
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		05/06/24 20:45	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		05/06/24 20:45	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		05/06/24 20:45	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/06/24 20:45	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/06/24 20:45	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		05/06/24 20:45	1
Bromomethane	10	U	20	10	3.7	ug/L		05/06/24 20:45	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		05/06/24 20:45	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		05/06/24 20:45	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/06/24 20:45	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/06/24 20:45	1
Carbon disulfide	**0.75**	**J Q**	2.0	1.0	0.43	ug/L		05/06/24 20:45	1
Carbon tetrachloride	1.0	U J1	2.0	1.0	0.30	ug/L		05/06/24 20:45	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/06/24 20:45	1
Chloroethane	10	U J1	20	10	4.6	ug/L		05/06/24 20:45	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/06/24 20:45	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		05/06/24 20:45	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		05/06/24 20:45	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		05/06/24 20:45	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/06/24 20:45	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		05/06/24 20:45	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 20:45	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/06/24 20:45	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 20:45	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 20:45	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 20:45	1
Dichlorodifluoromethane	1.0	U J1	2.0	1.0	0.36	ug/L		05/06/24 20:45	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 20:45	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/06/24 20:45	1
cis-1,2-Dichloroethene	**4.1**		2.0	1.0	0.25	ug/L		05/06/24 20:45	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		05/06/24 20:45	1
1,2-Dichloroethene, Total	**4.1**		2.0	1.0	0.37	ug/L		05/06/24 20:45	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 20:45	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		05/06/24 20:45	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 20:45	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		05/06/24 20:45	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/06/24 20:45	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/06/24 20:45	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/06/24 20:45	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		05/06/24 20:45	1
Hexachlorobutadiene	1.0	U J1	5.0	1.0	0.22	ug/L		05/06/24 20:45	1
2-Hexanone	10	U	20	10	3.2	ug/L		05/06/24 20:45	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/06/24 20:45	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/06/24 20:45	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/06/24 20:45	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		05/06/24 20:45	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/06/24 20:45	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		05/06/24 20:45	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		05/06/24 20:45	1

Client Sample ID: G6M-04-10A-SPR24-LTM
Lab Sample ID: 680-249958-4
Date Collected: 04/22/24 13:15
Matrix: Water
Date Received: 04/26/24 10:25

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		05/06/24 20:45	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 20:45	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/06/24 20:45	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		05/06/24 20:45	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		05/06/24 20:45	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/06/24 20:45	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		05/06/24 20:45	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/06/24 20:45	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/06/24 20:45	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		05/06/24 20:45	1
Trichlorofluoromethane	1.0	U J1	2.0	1.0	0.33	ug/L		05/06/24 20:45	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/06/24 20:45	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/06/24 20:45	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		05/06/24 20:45	1
Vinyl acetate	2.0	U Q J1	2.5	2.0	0.69	ug/L		05/06/24 20:45	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		05/06/24 20:45	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		05/06/24 20:45	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		05/06/24 20:45	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		05/06/24 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*89 - 112*		*05/06/24 20:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*81 - 118*		*05/06/24 20:45*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*05/06/24 20:45*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*05/06/24 20:45*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**4.7**		1.1	0.76	0.30	ug/L		05/03/24 19:22	1
Ethylene	**2.4**		1.0	0.71	0.31	ug/L		05/03/24 19:22	1
Methane (TCD)	**11000**	**J1**	390	77	39	ug/L		05/03/24 19:22	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	**0.44**	**J**	1.5	1.0	0.40	mg/L		05/08/24 14:26	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Aluminum	150	U	200	150	54	ug/L		04/29/24 21:26	1
Iron	**41000**	**J1**	100	50	20	ug/L		04/29/24 21:26	1
Manganese	**440**		10	5.0	1.3	ug/L		04/29/24 21:26	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**280**	**J1**	5.0	3.0	0.86	ug/L		04/30/24 16:23	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**73**		5.5	5.0	2.2	mg/L		04/30/24 00:19	1

Client: Seres Engineering & Services LLC
Job ID: 680-249958-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Client Sample ID: G6M-04-10A-SPR24-LTM
Lab Sample ID: 680-249958-4
Date Collected: 04/22/24 13:15
Matrix: Water
Date Received: 04/26/24 10:25

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	0.097	J J1	0.10	0.025	0.010	mg/L		04/30/24 13:07	1
Sulfide (SW846 9034)	0.85	J H	2.1	1.7	0.83	mg/L		04/30/24 15:01	1
Total Organic Carbon (SW846 9060A)	7.1		1.0	1.0	0.50	mg/L		04/30/24 16:02	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: G6M-07-02X-SPR24-LTM
Date Collected: 04/22/24 10:55
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		05/06/24 17:07	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		05/06/24 17:07	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		05/06/24 17:07	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/06/24 17:07	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/06/24 17:07	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		05/06/24 17:07	1
Bromomethane	10	U	20	10	3.7	ug/L		05/06/24 17:07	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		05/06/24 17:07	1
n-Butylbenzene	**0.61**	**J**	2.5	2.0	0.52	ug/L		05/06/24 17:07	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/06/24 17:07	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/06/24 17:07	1
Carbon disulfide	1.0	U Q	2.0	1.0	0.43	ug/L		05/06/24 17:07	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		05/06/24 17:07	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/06/24 17:07	1
Chloroethane	10	U	20	10	4.6	ug/L		05/06/24 17:07	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/06/24 17:07	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		05/06/24 17:07	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		05/06/24 17:07	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		05/06/24 17:07	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/06/24 17:07	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		05/06/24 17:07	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 17:07	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/06/24 17:07	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 17:07	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 17:07	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 17:07	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 17:07	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 17:07	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/06/24 17:07	1
cis-1,2-Dichloroethene	**1.1**	**J**	2.0	1.0	0.25	ug/L		05/06/24 17:07	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		05/06/24 17:07	1
1,2-Dichloroethene, Total	**1.1**	**J**	2.0	1.0	0.37	ug/L		05/06/24 17:07	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 17:07	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		05/06/24 17:07	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 17:07	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		05/06/24 17:07	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/06/24 17:07	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/06/24 17:07	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/06/24 17:07	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		05/06/24 17:07	1
Hexachlorobutadiene	**0.50**	**J**	5.0	1.0	0.22	ug/L		05/06/24 17:07	1
2-Hexanone	10	U	20	10	3.2	ug/L		05/06/24 17:07	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/06/24 17:07	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/06/24 17:07	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/06/24 17:07	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		05/06/24 17:07	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/06/24 17:07	1
Naphthalene	**3.5**	**J**	10	5.0	2.4	ug/L		05/06/24 17:07	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		05/06/24 17:07	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: G6M-07-02X-SPR24-LTM

Date Collected: 04/22/24 10:55
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-5

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		05/06/24 17:07	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 17:07	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/06/24 17:07	1
Tetrachloroethene	**0.54**	**J**	2.0	1.0	0.35	ug/L		05/06/24 17:07	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		05/06/24 17:07	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/06/24 17:07	1
1,2,4-Trichlorobenzene	**0.57**	**J**	5.0	2.0	0.53	ug/L		05/06/24 17:07	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/06/24 17:07	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/06/24 17:07	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		05/06/24 17:07	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 17:07	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/06/24 17:07	1
1,2,4-Trimethylbenzene	**0.86**	**J**	2.0	1.0	0.43	ug/L		05/06/24 17:07	1
1,3,5-Trimethylbenzene	**0.43**	**J M**	2.0	1.0	0.28	ug/L		05/06/24 17:07	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		05/06/24 17:07	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		05/06/24 17:07	1
o-Xylene	**0.47**	**J**	2.0	1.0	0.26	ug/L		05/06/24 17:07	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		05/06/24 17:07	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		05/06/24 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*89 - 112*		*05/06/24 17:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*81 - 118*		*05/06/24 17:07*	*1*
4-Bromofluorobenzene (Surr)	*105*		*85 - 114*		*05/06/24 17:07*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*05/06/24 17:07*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**1.3**		1.1	0.76	0.30	ug/L		05/03/24 20:01	1
Ethylene	**2.5**		1.0	0.71	0.31	ug/L		05/03/24 20:01	1
Methane (TCD)	**13000**		390	77	39	ug/L		05/03/24 20:01	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	1.0	0.40	mg/L		05/08/24 14:45	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Aluminum	150	U	200	150	54	ug/L		04/29/24 21:38	1
Iron	**74000**		100	50	20	ug/L		04/29/24 21:38	1
Manganese	**2500**		10	5.0	1.3	ug/L		04/29/24 21:38	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**28**		5.0	3.0	0.86	ug/L		04/30/24 16:37	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**64**		5.5	5.0	2.2	mg/L		04/30/24 00:27	1

Client: Seres Engineering & Services LLC
Job ID: 680-249958-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Client Sample ID: G6M-07-02X-SPR24-LTM
Lab Sample ID: 680-249958-5
Date Collected: 04/22/24 10:55
Matrix: Water
Date Received: 04/26/24 10:25

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	**0.069**	**J J1**	0.10	0.025	0.010	mg/L		04/30/24 13:12	1
Sulfide (SW846 9034)	1.8	U H	2.2	1.8	0.89	mg/L		04/30/24 15:01	1
Total Organic Carbon (SW846 9060A)	**67**		1.0	1.0	0.50	mg/L		05/01/24 00:25	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: G6M-13-01X-SPR24-LTM
Date Collected: 04/23/24 14:45
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		05/04/24 21:28	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		05/04/24 21:28	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		05/04/24 21:28	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/04/24 21:28	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/04/24 21:28	1
Bromoform	2.0	U Q	2.5	2.0	0.59	ug/L		05/04/24 21:28	1
Bromomethane	10	U Q	20	10	3.7	ug/L		05/04/24 21:28	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		05/04/24 21:28	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		05/04/24 21:28	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/04/24 21:28	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/04/24 21:28	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		05/04/24 21:28	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		05/04/24 21:28	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/04/24 21:28	1
Chloroethane	10	U Q	20	10	4.6	ug/L		05/04/24 21:28	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/04/24 21:28	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		05/04/24 21:28	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		05/04/24 21:28	1
4-Chlorotoluene	1.0	U M	2.0	1.0	0.41	ug/L		05/04/24 21:28	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/04/24 21:28	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		05/04/24 21:28	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/04/24 21:28	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/04/24 21:28	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/04/24 21:28	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/04/24 21:28	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/04/24 21:28	1
Dichlorodifluoromethane	1.0	U Q	2.0	1.0	0.36	ug/L		05/04/24 21:28	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/04/24 21:28	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/04/24 21:28	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		05/04/24 21:28	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		05/04/24 21:28	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		05/04/24 21:28	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		05/04/24 21:28	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		05/04/24 21:28	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/04/24 21:28	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		05/04/24 21:28	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/04/24 21:28	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/04/24 21:28	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/04/24 21:28	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		05/04/24 21:28	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		05/04/24 21:28	1
2-Hexanone	10	U	20	10	3.2	ug/L		05/04/24 21:28	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/04/24 21:28	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/04/24 21:28	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/04/24 21:28	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		05/04/24 21:28	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/04/24 21:28	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		05/04/24 21:28	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		05/04/24 21:28	1

Client Sample ID: G6M-13-01X-SPR24-LTM
Lab Sample ID: 680-249958-6
Date Collected: 04/23/24 14:45
Matrix: Water
Date Received: 04/26/24 10:25

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U M	2.0	1.0	0.27	ug/L		05/04/24 21:28	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/04/24 21:28	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/04/24 21:28	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		05/04/24 21:28	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		05/04/24 21:28	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/04/24 21:28	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		05/04/24 21:28	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/04/24 21:28	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/04/24 21:28	1
Trichloroethene	**0.68**	**J**	1.0	0.50	0.20	ug/L		05/04/24 21:28	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		05/04/24 21:28	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/04/24 21:28	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/04/24 21:28	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		05/04/24 21:28	1
Vinyl acetate	2.0	U Q M	2.5	2.0	0.69	ug/L		05/04/24 21:28	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		05/04/24 21:28	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		05/04/24 21:28	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		05/04/24 21:28	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		05/04/24 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*89 - 112*		*05/04/24 21:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*05/04/24 21:28*	*1*
4-Bromofluorobenzene (Surr)	*96*		*85 - 114*		*05/04/24 21:28*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 119*		*05/04/24 21:28*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	0.76	U	1.1	0.76	0.30	ug/L		05/03/24 20:14	1
Ethylene	0.71	U	1.0	0.71	0.31	ug/L		05/03/24 20:14	1
Methane (TCD)	**910**		390	77	39	ug/L		05/03/24 20:14	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	**15**	**D**	7.5	5.0	2.0	mg/L		05/08/24 14:52	5

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Aluminum	150	U	200	150	54	ug/L		04/29/24 21:48	1
Iron	**6700**		100	50	20	ug/L		04/29/24 21:48	1
Manganese	**3800**		10	5.0	1.3	ug/L		04/29/24 21:48	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**200**		5.0	3.0	0.86	ug/L		04/30/24 16:43	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**67**		5.5	5.0	2.2	mg/L		04/30/24 00:45	1

Client: Seres Engineering & Services LLC
Job ID: 680-249958-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Client Sample ID: G6M-13-01X-SPR24-LTM
Lab Sample ID: 680-249958-6
Date Collected: 04/23/24 14:45
Matrix: Water
Date Received: 04/26/24 10:25

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	0.025	U	0.10	0.025	0.010	mg/L		04/30/24 14:37	1
Sulfide (SW846 9034)	1.7	U	2.1	1.7	0.83	mg/L		04/30/24 15:01	1
Total Organic Carbon (SW846 9060A)	**1.1**		1.0	1.0	0.50	mg/L		05/01/24 02:30	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: G6M-13-02X-SPR24-LTM
Date Collected: 04/23/24 12:10
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		05/07/24 18:04	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		05/07/24 18:04	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		05/07/24 18:04	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/07/24 18:04	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/07/24 18:04	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		05/07/24 18:04	1
Bromomethane	10	U	20	10	3.7	ug/L		05/07/24 18:04	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		05/07/24 18:04	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		05/07/24 18:04	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/07/24 18:04	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/07/24 18:04	1
Carbon disulfide	1.0	U Q	2.0	1.0	0.43	ug/L		05/07/24 18:04	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		05/07/24 18:04	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/07/24 18:04	1
Chloroethane	10	U	20	10	4.6	ug/L		05/07/24 18:04	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/07/24 18:04	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		05/07/24 18:04	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		05/07/24 18:04	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		05/07/24 18:04	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/07/24 18:04	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		05/07/24 18:04	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/07/24 18:04	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/07/24 18:04	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/07/24 18:04	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/07/24 18:04	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/07/24 18:04	1
Dichlorodifluoromethane	1.0	U Q	2.0	1.0	0.36	ug/L		05/07/24 18:04	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/07/24 18:04	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/07/24 18:04	1
cis-1,2-Dichloroethene	**6.5**		2.0	1.0	0.25	ug/L		05/07/24 18:04	1
trans-1,2-Dichloroethene	**1.3**	**J**	2.0	1.0	0.34	ug/L		05/07/24 18:04	1
1,2-Dichloroethene, Total	**7.8**		2.0	1.0	0.37	ug/L		05/07/24 18:04	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		05/07/24 18:04	1
1,2-Dichloropropane	**0.54**	**J**	1.0	0.50	0.22	ug/L		05/07/24 18:04	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/07/24 18:04	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		05/07/24 18:04	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/07/24 18:04	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/07/24 18:04	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/07/24 18:04	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		05/07/24 18:04	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		05/07/24 18:04	1
2-Hexanone	10	U	20	10	3.2	ug/L		05/07/24 18:04	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/07/24 18:04	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/07/24 18:04	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/07/24 18:04	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		05/07/24 18:04	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/07/24 18:04	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		05/07/24 18:04	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		05/07/24 18:04	1

Client Sample ID: G6M-13-02X-SPR24-LTM
Lab Sample ID: 680-249958-7

Date Collected: 04/23/24 12:10
Matrix: Water
Date Received: 04/26/24 10:25

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		05/07/24 18:04	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/07/24 18:04	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/07/24 18:04	1
Tetrachloroethene	**0.75**	**J**	2.0	1.0	0.35	ug/L		05/07/24 18:04	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		05/07/24 18:04	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/07/24 18:04	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		05/07/24 18:04	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/07/24 18:04	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/07/24 18:04	1
Trichloroethene	**3.5**		1.0	0.50	0.20	ug/L		05/07/24 18:04	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		05/07/24 18:04	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/07/24 18:04	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/07/24 18:04	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		05/07/24 18:04	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		05/07/24 18:04	1
Vinyl chloride	**0.59**	**J**	2.0	1.0	0.40	ug/L		05/07/24 18:04	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		05/07/24 18:04	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		05/07/24 18:04	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		05/07/24 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*89 - 112*		*05/07/24 18:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*81 - 118*		*05/07/24 18:04*	*1*
4-Bromofluorobenzene (Surr)	*106*		*85 - 114*		*05/07/24 18:04*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*05/07/24 18:04*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**1.3**		1.1	0.76	0.30	ug/L		05/03/24 20:27	1
Ethylene	0.71	U	1.0	0.71	0.31	ug/L		05/03/24 20:27	1
Methane (TCD)	**8800**		390	77	39	ug/L		05/03/24 20:27	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	**10**	**J D**	15	10	4.0	mg/L		05/08/24 14:58	10

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Aluminum	150	U	200	150	54	ug/L		04/29/24 21:50	1
Iron	**4700**		100	50	20	ug/L		04/29/24 21:50	1
Manganese	**16000**		10	5.0	1.3	ug/L		04/29/24 21:50	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**30**		5.0	3.0	0.86	ug/L		04/30/24 16:51	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**110**		5.5	5.0	2.2	mg/L		04/30/24 00:37	1

Client: Seres Engineering & Services LLC
Job ID: 680-249958-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Client Sample ID: G6M-13-02X-SPR24-LTM
Lab Sample ID: 680-249958-7
Date Collected: 04/23/24 12:10
Matrix: Water
Date Received: 04/26/24 10:25

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	0.025	U	0.10	0.025	0.010	mg/L		04/30/24 13:21	1
Sulfide (SW846 9034)	1.8	U	2.2	1.8	0.89	mg/L		04/30/24 15:01	1
Total Organic Carbon (SW846 9060A)	**2.0**		1.0	1.0	0.50	mg/L		05/01/24 03:16	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: G6M-13-05X-SPR24-LTM
Date Collected: 04/22/24 16:00
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		05/06/24 17:29	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		05/06/24 17:29	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		05/06/24 17:29	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/06/24 17:29	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/06/24 17:29	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		05/06/24 17:29	1
Bromomethane	10	U	20	10	3.7	ug/L		05/06/24 17:29	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		05/06/24 17:29	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		05/06/24 17:29	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/06/24 17:29	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/06/24 17:29	1
Carbon disulfide	1.0	U Q	2.0	1.0	0.43	ug/L		05/06/24 17:29	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		05/06/24 17:29	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/06/24 17:29	1
Chloroethane	10	U	20	10	4.6	ug/L		05/06/24 17:29	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/06/24 17:29	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		05/06/24 17:29	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		05/06/24 17:29	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		05/06/24 17:29	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/06/24 17:29	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		05/06/24 17:29	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 17:29	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/06/24 17:29	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 17:29	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 17:29	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 17:29	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 17:29	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 17:29	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/06/24 17:29	1
cis-1,2-Dichloroethene	**7.2**		2.0	1.0	0.25	ug/L		05/06/24 17:29	1
trans-1,2-Dichloroethene	**0.50**	**J**	2.0	1.0	0.34	ug/L		05/06/24 17:29	1
1,2-Dichloroethene, Total	**7.7**		2.0	1.0	0.37	ug/L		05/06/24 17:29	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 17:29	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		05/06/24 17:29	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 17:29	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		05/06/24 17:29	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/06/24 17:29	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/06/24 17:29	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/06/24 17:29	1
Ethylbenzene	**0.29**	**J**	1.0	0.50	0.20	ug/L		05/06/24 17:29	1
Hexachlorobutadiene	**0.41**	**J**	5.0	1.0	0.22	ug/L		05/06/24 17:29	1
2-Hexanone	10	U	20	10	3.2	ug/L		05/06/24 17:29	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/06/24 17:29	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/06/24 17:29	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/06/24 17:29	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		05/06/24 17:29	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/06/24 17:29	1
Naphthalene	**2.4**	**J**	10	5.0	2.4	ug/L		05/06/24 17:29	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		05/06/24 17:29	1

Client Sample ID: G6M-13-05X-SPR24-LTM

Date Collected: 04/22/24 16:00
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-8

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U M	2.0	1.0	0.27	ug/L		05/06/24 17:29	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 17:29	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/06/24 17:29	1
Tetrachloroethene	**16**		2.0	1.0	0.35	ug/L		05/06/24 17:29	1
Toluene	**0.36**	**J**	2.0	1.0	0.25	ug/L		05/06/24 17:29	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/06/24 17:29	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		05/06/24 17:29	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/06/24 17:29	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/06/24 17:29	1
Trichloroethene	**3.9**		1.0	0.50	0.20	ug/L		05/06/24 17:29	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 17:29	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/06/24 17:29	1
1,2,4-Trimethylbenzene	**0.75**	**J**	2.0	1.0	0.43	ug/L		05/06/24 17:29	1
1,3,5-Trimethylbenzene	**0.32**	**J M**	2.0	1.0	0.28	ug/L		05/06/24 17:29	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		05/06/24 17:29	1
Vinyl chloride	**8.2**		2.0	1.0	0.40	ug/L		05/06/24 17:29	1
o-Xylene	**0.64**	**J**	2.0	1.0	0.26	ug/L		05/06/24 17:29	1
m-Xylene & p-Xylene	**0.73**	**J**	2.0	1.0	0.49	ug/L		05/06/24 17:29	1
Xylenes, Total	**1.4**	**J**	2.0	1.0	0.49	ug/L		05/06/24 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*89 - 112*		*05/06/24 17:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*81 - 118*		*05/06/24 17:29*	*1*
4-Bromofluorobenzene (Surr)	*106*		*85 - 114*		*05/06/24 17:29*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*05/06/24 17:29*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**34**		1.1	0.76	0.30	ug/L		05/03/24 20:40	1
Ethylene	**18**		1.0	0.71	0.31	ug/L		05/03/24 20:40	1
Methane (TCD)	**20000**		390	77	39	ug/L		05/03/24 20:40	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	5.0	U	7.5	5.0	2.0	mg/L		05/08/24 15:05	5

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Aluminum	150	U	200	150	54	ug/L		04/29/24 21:57	1
Iron	**67000**		100	50	20	ug/L		04/29/24 21:57	1
Manganese	**5900**		10	5.0	1.3	ug/L		04/29/24 21:57	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**140**		5.0	3.0	0.86	ug/L		04/30/24 17:00	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**57**		5.5	5.0	2.2	mg/L		04/30/24 01:03	1

Client: Seres Engineering & Services LLC
Job ID: 680-249958-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Client Sample ID: G6M-13-05X-SPR24-LTM
Lab Sample ID: 680-249958-8
Date Collected: 04/22/24 16:00
Matrix: Water
Date Received: 04/26/24 10:25

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	0.082	J	0.10	0.025	0.010	mg/L		04/30/24 13:23	1
Sulfide (SW846 9034)	1.6	J H	2.0	1.6	0.81	mg/L		04/30/24 15:01	1
Total Organic Carbon (SW846 9060A)	3.7		1.0	1.0	0.50	mg/L		05/01/24 03:38	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: G6M-97-05B-SPR24-LTM
Date Collected: 04/23/24 12:25
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		05/04/24 22:32	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		05/04/24 22:32	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		05/04/24 22:32	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/04/24 22:32	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/04/24 22:32	1
Bromoform	2.0	U Q	2.5	2.0	0.59	ug/L		05/04/24 22:32	1
Bromomethane	10	U Q	20	10	3.7	ug/L		05/04/24 22:32	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		05/04/24 22:32	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		05/04/24 22:32	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/04/24 22:32	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/04/24 22:32	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		05/04/24 22:32	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		05/04/24 22:32	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/04/24 22:32	1
Chloroethane	10	U Q	20	10	4.6	ug/L		05/04/24 22:32	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/04/24 22:32	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		05/04/24 22:32	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		05/04/24 22:32	1
4-Chlorotoluene	1.0	U M	2.0	1.0	0.41	ug/L		05/04/24 22:32	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/04/24 22:32	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		05/04/24 22:32	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/04/24 22:32	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/04/24 22:32	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/04/24 22:32	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/04/24 22:32	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/04/24 22:32	1
Dichlorodifluoromethane	1.0	U Q	2.0	1.0	0.36	ug/L		05/04/24 22:32	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/04/24 22:32	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/04/24 22:32	1
cis-1,2-Dichloroethene	**1.5**	**J**	2.0	1.0	0.25	ug/L		05/04/24 22:32	1
trans-1,2-Dichloroethene	**0.64**	**J M**	2.0	1.0	0.34	ug/L		05/04/24 22:32	1
1,2-Dichloroethene, Total	**2.2**		2.0	1.0	0.37	ug/L		05/04/24 22:32	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		05/04/24 22:32	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		05/04/24 22:32	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/04/24 22:32	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		05/04/24 22:32	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/04/24 22:32	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/04/24 22:32	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/04/24 22:32	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		05/04/24 22:32	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		05/04/24 22:32	1
2-Hexanone	10	U	20	10	3.2	ug/L		05/04/24 22:32	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/04/24 22:32	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/04/24 22:32	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/04/24 22:32	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		05/04/24 22:32	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/04/24 22:32	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		05/04/24 22:32	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		05/04/24 22:32	1

Client Sample ID: G6M-97-05B-SPR24-LTM
Lab Sample ID: 680-249958-9
Date Collected: 04/23/24 12:25
Matrix: Water
Date Received: 04/26/24 10:25

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		05/04/24 22:32	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/04/24 22:32	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/04/24 22:32	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		05/04/24 22:32	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		05/04/24 22:32	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/04/24 22:32	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		05/04/24 22:32	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/04/24 22:32	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/04/24 22:32	1
Trichloroethene	**0.40**	**J M**	1.0	0.50	0.20	ug/L		05/04/24 22:32	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		05/04/24 22:32	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/04/24 22:32	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/04/24 22:32	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		05/04/24 22:32	1
Vinyl acetate	2.0	U Q M	2.5	2.0	0.69	ug/L		05/04/24 22:32	1
Vinyl chloride	**0.74**	**J**	2.0	1.0	0.40	ug/L		05/04/24 22:32	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		05/04/24 22:32	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		05/04/24 22:32	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		05/04/24 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*89 - 112*		*05/04/24 22:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*81 - 118*		*05/04/24 22:32*	*1*
4-Bromofluorobenzene (Surr)	*97*		*85 - 114*		*05/04/24 22:32*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*05/04/24 22:32*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**17**		1.1	0.76	0.30	ug/L		05/03/24 20:53	1
Ethylene	**5.3**		1.0	0.71	0.31	ug/L		05/03/24 20:53	1
Methane (TCD)	**31000**		390	77	39	ug/L		05/03/24 20:53	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	10	U	15	10	4.0	mg/L		05/08/24 15:11	10

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Aluminum	150	U	200	150	54	ug/L		04/29/24 22:02	1
Iron	**61000**		100	50	20	ug/L		04/29/24 22:02	1
Manganese	**7300**		10	5.0	1.3	ug/L		04/29/24 22:02	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**240**		5.0	3.0	0.86	ug/L		04/30/24 17:06	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**130**		5.5	5.0	2.2	mg/L		04/30/24 00:55	1

Client: Seres Engineering & Services LLC
Job ID: 680-249958-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Client Sample ID: G6M-97-05B-SPR24-LTM
Lab Sample ID: 680-249958-9
Date Collected: 04/23/24 12:25
Matrix: Water
Date Received: 04/26/24 10:25

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	**0.064**	**J**	0.10	0.025	0.010	mg/L		04/30/24 13:25	1
Sulfide (SW846 9034)	1.6	U	2.0	1.6	0.81	mg/L		04/30/24 15:01	1
Total Organic Carbon (SW846 9060A)	**7.5**		1.0	1.0	0.50	mg/L		05/01/24 03:57	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: XSA-12-96X-SPR24-LTM
Date Collected: 04/22/24 14:55
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		05/06/24 17:51	1
Benzene	**0.40**	**J**	2.0	1.0	0.27	ug/L		05/06/24 17:51	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		05/06/24 17:51	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/06/24 17:51	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/06/24 17:51	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		05/06/24 17:51	1
Bromomethane	10	U	20	10	3.7	ug/L		05/06/24 17:51	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		05/06/24 17:51	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		05/06/24 17:51	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/06/24 17:51	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/06/24 17:51	1
Carbon disulfide	1.0	U Q	2.0	1.0	0.43	ug/L		05/06/24 17:51	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		05/06/24 17:51	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/06/24 17:51	1
Chloroethane	10	U	20	10	4.6	ug/L		05/06/24 17:51	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/06/24 17:51	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		05/06/24 17:51	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		05/06/24 17:51	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		05/06/24 17:51	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/06/24 17:51	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		05/06/24 17:51	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 17:51	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/06/24 17:51	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 17:51	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 17:51	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 17:51	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 17:51	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 17:51	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/06/24 17:51	1
cis-1,2-Dichloroethene	**3.4**		2.0	1.0	0.25	ug/L		05/06/24 17:51	1
trans-1,2-Dichloroethene	**2.0**		2.0	1.0	0.34	ug/L		05/06/24 17:51	1
1,2-Dichloroethene, Total	**5.4**		2.0	1.0	0.37	ug/L		05/06/24 17:51	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 17:51	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		05/06/24 17:51	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 17:51	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		05/06/24 17:51	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/06/24 17:51	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/06/24 17:51	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/06/24 17:51	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		05/06/24 17:51	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		05/06/24 17:51	1
2-Hexanone	10	U	20	10	3.2	ug/L		05/06/24 17:51	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/06/24 17:51	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/06/24 17:51	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/06/24 17:51	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		05/06/24 17:51	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/06/24 17:51	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		05/06/24 17:51	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		05/06/24 17:51	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: XSA-12-96X-SPR24-LTM

Date Collected: 04/22/24 14:55
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-10

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		05/06/24 17:51	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 17:51	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/06/24 17:51	1
Tetrachloroethene	**1.4**	**J**	2.0	1.0	0.35	ug/L		05/06/24 17:51	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		05/06/24 17:51	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/06/24 17:51	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		05/06/24 17:51	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/06/24 17:51	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/06/24 17:51	1
Trichloroethene	**2.4**		1.0	0.50	0.20	ug/L		05/06/24 17:51	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 17:51	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/06/24 17:51	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/06/24 17:51	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		05/06/24 17:51	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		05/06/24 17:51	1
Vinyl chloride	**2.0**		2.0	1.0	0.40	ug/L		05/06/24 17:51	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		05/06/24 17:51	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		05/06/24 17:51	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		05/06/24 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*89 - 112*		*05/06/24 17:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*81 - 118*		*05/06/24 17:51*	*1*
4-Bromofluorobenzene (Surr)	*106*		*85 - 114*		*05/06/24 17:51*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*05/06/24 17:51*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Aluminum	150	U	200	150	54	ug/L		04/29/24 21:55	1
Iron	**1700**		100	50	20	ug/L		04/29/24 21:55	1
Manganese	**5600**		10	5.0	1.3	ug/L		04/29/24 21:55	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**1.8**	**J**	5.0	3.0	0.86	ug/L		04/30/24 16:57	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: AOC50-RB01-SPR24-LTM
Date Collected: 04/24/24 07:30
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	**31**		25	10	3.7	ug/L		05/07/24 19:10	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		05/07/24 19:10	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		05/07/24 19:10	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/07/24 19:10	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/07/24 19:10	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		05/07/24 19:10	1
Bromomethane	10	U	20	10	3.7	ug/L		05/07/24 19:10	1
2-Butanone (MEK)	**11**	**J**	25	20	6.4	ug/L		05/07/24 19:10	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		05/07/24 19:10	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/07/24 19:10	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/07/24 19:10	1
Carbon disulfide	1.0	U Q	2.0	1.0	0.43	ug/L		05/07/24 19:10	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		05/07/24 19:10	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/07/24 19:10	1
Chloroethane	10	U	20	10	4.6	ug/L		05/07/24 19:10	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/07/24 19:10	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		05/07/24 19:10	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		05/07/24 19:10	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		05/07/24 19:10	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/07/24 19:10	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		05/07/24 19:10	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/07/24 19:10	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/07/24 19:10	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/07/24 19:10	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/07/24 19:10	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/07/24 19:10	1
Dichlorodifluoromethane	1.0	U Q	2.0	1.0	0.36	ug/L		05/07/24 19:10	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/07/24 19:10	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/07/24 19:10	1
cis-1,2-Dichloroethene	**0.26**	**J**	2.0	1.0	0.25	ug/L		05/07/24 19:10	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		05/07/24 19:10	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		05/07/24 19:10	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		05/07/24 19:10	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		05/07/24 19:10	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/07/24 19:10	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		05/07/24 19:10	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/07/24 19:10	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/07/24 19:10	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/07/24 19:10	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		05/07/24 19:10	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		05/07/24 19:10	1
2-Hexanone	10	U	20	10	3.2	ug/L		05/07/24 19:10	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/07/24 19:10	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/07/24 19:10	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/07/24 19:10	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		05/07/24 19:10	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/07/24 19:10	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		05/07/24 19:10	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		05/07/24 19:10	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: AOC50-RB01-SPR24-LTM
Date Collected: 04/24/24 07:30
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		05/07/24 19:10	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/07/24 19:10	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/07/24 19:10	1
Tetrachloroethene	**0.93**	**J**	2.0	1.0	0.35	ug/L		05/07/24 19:10	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		05/07/24 19:10	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/07/24 19:10	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		05/07/24 19:10	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/07/24 19:10	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/07/24 19:10	1
Trichloroethene	**0.90**	**J**	1.0	0.50	0.20	ug/L		05/07/24 19:10	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		05/07/24 19:10	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/07/24 19:10	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/07/24 19:10	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		05/07/24 19:10	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		05/07/24 19:10	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		05/07/24 19:10	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		05/07/24 19:10	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		05/07/24 19:10	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		05/07/24 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*89 - 112*		*05/07/24 19:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*81 - 118*		*05/07/24 19:10*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*05/07/24 19:10*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 119*		*05/07/24 19:10*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Aluminum	150	U	200	150	54	ug/L		04/29/24 22:00	1
Iron	50	U	100	50	20	ug/L		04/29/24 22:00	1
Manganese	5.0	U	10	5.0	1.3	ug/L		04/29/24 22:00	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		04/30/24 17:03	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Job ID: 680-249958-1

Client Sample ID: AOC50-TB-SPR24-LTM
Date Collected: 04/22/24 00:00
Date Received: 04/26/24 10:25

Lab Sample ID: 680-249958-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		05/04/24 19:41	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		05/04/24 19:41	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		05/04/24 19:41	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/04/24 19:41	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/04/24 19:41	1
Bromoform	2.0	U Q	2.5	2.0	0.59	ug/L		05/04/24 19:41	1
Bromomethane	10	U Q	20	10	3.7	ug/L		05/04/24 19:41	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		05/04/24 19:41	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		05/04/24 19:41	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/04/24 19:41	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/04/24 19:41	1
Carbon disulfide	**0.66**	**J**	2.0	1.0	0.43	ug/L		05/04/24 19:41	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		05/04/24 19:41	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/04/24 19:41	1
Chloroethane	10	U Q	20	10	4.6	ug/L		05/04/24 19:41	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/04/24 19:41	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		05/04/24 19:41	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		05/04/24 19:41	1
4-Chlorotoluene	1.0	U M	2.0	1.0	0.41	ug/L		05/04/24 19:41	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/04/24 19:41	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		05/04/24 19:41	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/04/24 19:41	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/04/24 19:41	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/04/24 19:41	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/04/24 19:41	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/04/24 19:41	1
Dichlorodifluoromethane	1.0	U Q	2.0	1.0	0.36	ug/L		05/04/24 19:41	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/04/24 19:41	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/04/24 19:41	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		05/04/24 19:41	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		05/04/24 19:41	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		05/04/24 19:41	1
1,1-Dichloroethene	1.0	U M	2.0	1.0	0.33	ug/L		05/04/24 19:41	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		05/04/24 19:41	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/04/24 19:41	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		05/04/24 19:41	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/04/24 19:41	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/04/24 19:41	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/04/24 19:41	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		05/04/24 19:41	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		05/04/24 19:41	1
2-Hexanone	10	U	20	10	3.2	ug/L		05/04/24 19:41	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/04/24 19:41	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/04/24 19:41	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/04/24 19:41	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		05/04/24 19:41	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/04/24 19:41	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		05/04/24 19:41	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		05/04/24 19:41	1

Client: Seres Engineering & Services LLC
Job ID: 680-249958-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Client Sample ID: AOC50-TB-SPR24-LTM
Lab Sample ID: 680-249958-12
Date Collected: 04/22/24 00:00
Matrix: Water
Date Received: 04/26/24 10:25

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U M	2.0	1.0	0.27	ug/L		05/04/24 19:41	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/04/24 19:41	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/04/24 19:41	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		05/04/24 19:41	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		05/04/24 19:41	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/04/24 19:41	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		05/04/24 19:41	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/04/24 19:41	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/04/24 19:41	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		05/04/24 19:41	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		05/04/24 19:41	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/04/24 19:41	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/04/24 19:41	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		05/04/24 19:41	1
Vinyl acetate	2.0	U Q M	2.5	2.0	0.69	ug/L		05/04/24 19:41	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		05/04/24 19:41	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		05/04/24 19:41	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		05/04/24 19:41	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		05/04/24 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*89 - 112*		*05/04/24 19:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*		*05/04/24 19:41*	*1*
4-Bromofluorobenzene (Surr)	*97*		*85 - 114*		*05/04/24 19:41*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 119*		*05/04/24 19:41*	*1*

Method: 8260D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-836163/8
Matrix: Water
Analysis Batch: 836163

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		05/03/24 13:39	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		05/03/24 13:39	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		05/03/24 13:39	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/03/24 13:39	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/03/24 13:39	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		05/03/24 13:39	1
Bromomethane	10	U	20	10	3.7	ug/L		05/03/24 13:39	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		05/03/24 13:39	1
n-Butylbenzene	0.523	J	2.5	2.0	0.52	ug/L		05/03/24 13:39	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/03/24 13:39	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/03/24 13:39	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		05/03/24 13:39	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		05/03/24 13:39	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/03/24 13:39	1
Chloroethane	10	U	20	10	4.6	ug/L		05/03/24 13:39	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/03/24 13:39	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		05/03/24 13:39	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		05/03/24 13:39	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		05/03/24 13:39	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/03/24 13:39	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		05/03/24 13:39	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/03/24 13:39	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/03/24 13:39	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/03/24 13:39	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/03/24 13:39	1
1,4-Dichlorobenzene	1.0	U M	2.0	1.0	0.31	ug/L		05/03/24 13:39	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		05/03/24 13:39	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/03/24 13:39	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/03/24 13:39	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		05/03/24 13:39	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		05/03/24 13:39	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		05/03/24 13:39	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		05/03/24 13:39	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		05/03/24 13:39	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/03/24 13:39	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		05/03/24 13:39	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/03/24 13:39	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/03/24 13:39	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/03/24 13:39	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		05/03/24 13:39	1
Hexachlorobutadiene	0.659	J	5.0	1.0	0.22	ug/L		05/03/24 13:39	1
2-Hexanone	10	U	20	10	3.2	ug/L		05/03/24 13:39	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/03/24 13:39	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/03/24 13:39	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/03/24 13:39	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		05/03/24 13:39	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/03/24 13:39	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		05/03/24 13:39	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-836163/8
Matrix: Water
Analysis Batch: 836163

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
N-Propylbenzene	1.0	U M	2.0	1.0	0.41	ug/L		05/03/24 13:39	1
Styrene	1.0	U	2.0	1.0	0.27	ug/L		05/03/24 13:39	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/03/24 13:39	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/03/24 13:39	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		05/03/24 13:39	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		05/03/24 13:39	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/03/24 13:39	1
1,2,4-Trichlorobenzene	0.658	J	5.0	2.0	0.53	ug/L		05/03/24 13:39	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/03/24 13:39	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/03/24 13:39	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		05/03/24 13:39	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		05/03/24 13:39	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/03/24 13:39	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/03/24 13:39	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		05/03/24 13:39	1
Vinyl acetate	2.0	U	2.5	2.0	0.69	ug/L		05/03/24 13:39	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		05/03/24 13:39	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		05/03/24 13:39	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		05/03/24 13:39	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		05/03/24 13:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*89 - 112*		*05/03/24 13:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*81 - 118*		*05/03/24 13:39*	*1*
4-Bromofluorobenzene (Surr)	*93*		*85 - 114*		*05/03/24 13:39*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*05/03/24 13:39*	*1*

Lab Sample ID: LCS 680-836163/4
Matrix: Water
Analysis Batch: 836163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	250		ug/L		100	39 - 160
Benzene	50.0	53.9		ug/L		108	79 - 120
Bromobenzene	50.0	53.3		ug/L		107	80 - 120
Chlorobromomethane	50.0	56.0		ug/L		112	78 - 123
Dichlorobromomethane	50.0	48.2		ug/L		96	79 - 125
Bromoform	50.0	36.1		ug/L		72	66 - 130
Bromomethane	50.0	81.5	Q	ug/L		163	53 - 141
2-Butanone (MEK)	250	181		ug/L		72	56 - 143
n-Butylbenzene	50.0	52.7		ug/L		105	75 - 128
sec-Butylbenzene	50.0	55.6		ug/L		111	77 - 126
tert-Butylbenzene	50.0	54.4		ug/L		109	78 - 124
Carbon disulfide	50.0	71.3	Q	ug/L		143	64 - 133
Carbon tetrachloride	50.0	51.7		ug/L		103	72 - 136
Chlorobenzene	50.0	50.3		ug/L		101	82 - 118
Chloroethane	50.0	56.9		ug/L		114	60 - 138
Chloroform	50.0	55.4		ug/L		111	79 - 124

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-836163/4
Matrix: Water
Analysis Batch: 836163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	50.0	64.0		ug/L		128	50 - 139
2-Chlorotoluene	50.0	53.6		ug/L		107	79 - 122
4-Chlorotoluene	50.0	53.9		ug/L		108	78 - 122
Chlorodibromomethane	50.0	41.7		ug/L		83	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	38.8		ug/L		78	62 - 128
Ethylene Dibromide	50.0	45.7		ug/L		91	75 - 127
Dibromomethane	50.0	51.9		ug/L		104	79 - 123
1,2-Dichlorobenzene	50.0	50.9		ug/L		102	80 - 119
1,3-Dichlorobenzene	50.0	51.3		ug/L		103	80 - 119
1,4-Dichlorobenzene	50.0	51.1		ug/L		102	79 - 118
Dichlorodifluoromethane	50.0	72.6		ug/L		145	32 - 152
1,1-Dichloroethane	50.0	59.5		ug/L		119	77 - 125
1,2-Dichloroethane	50.0	51.6		ug/L		103	73 - 128
cis-1,2-Dichloroethene	50.0	58.7		ug/L		117	78 - 123
trans-1,2-Dichloroethene	50.0	62.5	Q	ug/L		125	75 - 124
1,2-Dichloroethene, Total	100	121		ug/L		121	79 - 121
1,1-Dichloroethene	50.0	72.3	Q	ug/L		145	71 - 131
1,2-Dichloropropane	50.0	52.3		ug/L		105	78 - 122
1,3-Dichloropropane	50.0	46.4		ug/L		93	80 - 119
2,2-Dichloropropane	50.0	61.7		ug/L		123	60 - 139
1,1-Dichloropropene	50.0	57.4		ug/L		115	79 - 125
cis-1,3-Dichloropropene	50.0	46.9		ug/L		94	75 - 124
trans-1,3-Dichloropropene	50.0	44.3		ug/L		89	73 - 127
Ethylbenzene	50.0	53.9		ug/L		108	79 - 121
Hexachlorobutadiene	50.0	49.7		ug/L		99	66 - 134
2-Hexanone	250	177		ug/L		71	57 - 139
Isopropylbenzene	50.0	53.4		ug/L		107	72 - 131
4-Isopropyltoluene	50.0	52.5		ug/L		105	77 - 127
Methylene Chloride	50.0	58.5		ug/L		117	74 - 124
4-Methyl-2-pentanone (MIBK)	250	183		ug/L		73	67 - 130
Methyl tert-butyl ether	50.0	44.6		ug/L		89	71 - 124
Naphthalene	50.0	47.5		ug/L		95	61 - 128
N-Propylbenzene	50.0	56.3		ug/L		113	76 - 126
Styrene	50.0	53.6		ug/L		107	78 - 123
1,1,1,2-Tetrachloroethane	50.0	45.5		ug/L		91	78 - 124
1,1,2,2-Tetrachloroethane	50.0	47.2		ug/L		94	71 - 121
Tetrachloroethene	50.0	53.2		ug/L		106	74 - 129
Toluene	50.0	51.2		ug/L		102	80 - 121
1,2,3-Trichlorobenzene	50.0	52.0		ug/L		104	69 - 129
1,2,4-Trichlorobenzene	50.0	51.4		ug/L		103	69 - 130
1,1,1-Trichloroethane	50.0	55.9		ug/L		112	74 - 131
1,1,2-Trichloroethane	50.0	46.1		ug/L		92	80 - 119
Trichloroethene	50.0	48.8		ug/L		98	79 - 123
Trichlorofluoromethane	50.0	71.1	Q	ug/L		142	65 - 141
1,2,3-Trichloropropane	50.0	45.4		ug/L		91	73 - 122
1,2,4-Trimethylbenzene	50.0	53.6		ug/L		107	76 - 124
1,3,5-Trimethylbenzene	50.0	54.1		ug/L		108	75 - 124
Vinyl acetate	100	160	Q	ug/L		160	54 - 146
Vinyl chloride	50.0	63.6		ug/L		127	58 - 137

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-836163/4
Matrix: Water
Analysis Batch: 836163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	50.0	52.9		ug/L		106	78 - 122
m-Xylene & p-Xylene	50.0	53.7		ug/L		107	80 - 121
Xylenes, Total	100	107		ug/L		107	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*100*		*81 - 118*
4-Bromofluorobenzene (Surr)	*87*		*85 - 114*
Dibromofluoromethane (Surr)	*113*		*80 - 119*

Lab Sample ID: LCSD 680-836163/5
Matrix: Water
Analysis Batch: 836163

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
Acetone	250	221		ug/L		88	39 - 160	12	20
Benzene	50.0	53.0		ug/L		106	79 - 120	2	20
Bromobenzene	50.0	52.8		ug/L		106	80 - 120	1	20
Chlorobromomethane	50.0	53.2		ug/L		106	78 - 123	5	20
Dichlorobromomethane	50.0	48.0		ug/L		96	79 - 125	0	20
Bromoform	50.0	35.2		ug/L		70	66 - 130	2	20
Bromomethane	50.0	78.2	Q	ug/L		156	53 - 141	4	20
2-Butanone (MEK)	250	166		ug/L		67	56 - 143	8	20
n-Butylbenzene	50.0	55.6		ug/L		111	75 - 128	5	20
sec-Butylbenzene	50.0	56.1		ug/L		112	77 - 126	1	20
tert-Butylbenzene	50.0	54.8		ug/L		110	78 - 124	1	20
Carbon disulfide	50.0	67.2	Q	ug/L		134	64 - 133	6	20
Carbon tetrachloride	50.0	49.9		ug/L		100	72 - 136	3	20
Chlorobenzene	50.0	49.4		ug/L		99	82 - 118	2	20
Chloroethane	50.0	54.8		ug/L		110	60 - 138	4	20
Chloroform	50.0	53.1		ug/L		106	79 - 124	4	20
Chloromethane	50.0	61.3		ug/L		123	50 - 139	4	20
2-Chlorotoluene	50.0	53.7		ug/L		107	79 - 122	0	20
4-Chlorotoluene	50.0	53.8		ug/L		108	78 - 122	0	20
Chlorodibromomethane	50.0	42.9		ug/L		86	74 - 126	3	20
1,2-Dibromo-3-Chloropropane	50.0	36.6		ug/L		73	62 - 128	6	20
Ethylene Dibromide	50.0	45.5		ug/L		91	75 - 127	0	20
Dibromomethane	50.0	49.7		ug/L		99	79 - 123	4	20
1,2-Dichlorobenzene	50.0	51.2		ug/L		102	80 - 119	1	20
1,3-Dichlorobenzene	50.0	52.8		ug/L		106	80 - 119	3	20
1,4-Dichlorobenzene	50.0	52.2		ug/L		104	79 - 118	2	20
Dichlorodifluoromethane	50.0	65.1		ug/L		130	32 - 152	11	20
1,1-Dichloroethane	50.0	55.7		ug/L		111	77 - 125	7	20
1,2-Dichloroethane	50.0	50.4		ug/L		101	73 - 128	2	20
cis-1,2-Dichloroethene	50.0	56.3		ug/L		113	78 - 123	4	20
trans-1,2-Dichloroethene	50.0	59.9		ug/L		120	75 - 124	4	20
1,2-Dichloroethene, Total	100	116		ug/L		116	79 - 121	4	20
1,1-Dichloroethene	50.0	67.1	Q	ug/L		134	71 - 131	7	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-836163/5
Matrix: Water
Analysis Batch: 836163

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
1,2-Dichloropropane	50.0	51.3		ug/L		103	78 - 122	2	20
1,3-Dichloropropane	50.0	46.5		ug/L		93	80 - 119	0	20
2,2-Dichloropropane	50.0	58.9		ug/L		118	60 - 139	4	20
1,1-Dichloropropene	50.0	56.5		ug/L		113	79 - 125	2	20
cis-1,3-Dichloropropene	50.0	48.0		ug/L		96	75 - 124	2	20
trans-1,3-Dichloropropene	50.0	45.4		ug/L		91	73 - 127	2	20
Ethylbenzene	50.0	52.9		ug/L		106	79 - 121	2	20
Hexachlorobutadiene	50.0	55.7		ug/L		111	66 - 134	12	20
2-Hexanone	250	165		ug/L		66	57 - 139	7	20
Isopropylbenzene	50.0	52.9		ug/L		106	72 - 131	1	20
4-Isopropyltoluene	50.0	55.1		ug/L		110	77 - 127	5	20
Methylene Chloride	50.0	55.8		ug/L		112	74 - 124	5	20
4-Methyl-2-pentanone (MIBK)	250	175		ug/L		70	67 - 130	4	20
Methyl tert-butyl ether	50.0	45.4		ug/L		91	71 - 124	2	20
Naphthalene	50.0	46.3		ug/L		93	61 - 128	3	20
N-Propylbenzene	50.0	56.4		ug/L		113	76 - 126	0	20
Styrene	50.0	52.4		ug/L		105	78 - 123	2	20
1,1,1,2-Tetrachloroethane	50.0	46.2		ug/L		92	78 - 124	2	20
1,1,2,2-Tetrachloroethane	50.0	44.7		ug/L		89	71 - 121	5	20
Tetrachloroethene	50.0	54.6		ug/L		109	74 - 129	3	20
Toluene	50.0	51.2		ug/L		102	80 - 121	0	20
1,2,3-Trichlorobenzene	50.0	52.9		ug/L		106	69 - 129	2	20
1,2,4-Trichlorobenzene	50.0	53.1		ug/L		106	69 - 130	3	20
1,1,1-Trichloroethane	50.0	53.7		ug/L		107	74 - 131	4	20
1,1,2-Trichloroethane	50.0	46.2		ug/L		92	80 - 119	0	20
Trichloroethene	50.0	50.1		ug/L		100	79 - 123	3	20
Trichlorofluoromethane	50.0	63.6		ug/L		127	65 - 141	11	20
1,2,3-Trichloropropane	50.0	42.1		ug/L		84	73 - 122	8	20
1,2,4-Trimethylbenzene	50.0	53.3		ug/L		107	76 - 124	0	20
1,3,5-Trimethylbenzene	50.0	54.0		ug/L		108	75 - 124	0	20
Vinyl acetate	100	148	Q	ug/L		148	54 - 146	8	20
Vinyl chloride	50.0	59.2		ug/L		118	58 - 137	7	20
o-Xylene	50.0	52.4		ug/L		105	78 - 122	1	20
m-Xylene & p-Xylene	50.0	52.9		ug/L		106	80 - 121	1	20
Xylenes, Total	100	105		ug/L		105	79 - 121	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*96*		*81 - 118*
4-Bromofluorobenzene (Surr)	*89*		*85 - 114*
Dibromofluoromethane (Surr)	*107*		*80 - 119*

Lab Sample ID: MB 680-836369/8
Matrix: Water
Analysis Batch: 836369

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		05/04/24 18:02	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-836369/8
Matrix: Water
Analysis Batch: 836369

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	1.0	U	2.0	1.0	0.27	ug/L		05/04/24 18:02	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		05/04/24 18:02	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/04/24 18:02	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/04/24 18:02	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		05/04/24 18:02	1
Bromomethane	10	U	20	10	3.7	ug/L		05/04/24 18:02	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		05/04/24 18:02	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		05/04/24 18:02	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/04/24 18:02	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/04/24 18:02	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		05/04/24 18:02	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		05/04/24 18:02	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/04/24 18:02	1
Chloroethane	10	U	20	10	4.6	ug/L		05/04/24 18:02	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/04/24 18:02	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		05/04/24 18:02	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		05/04/24 18:02	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		05/04/24 18:02	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/04/24 18:02	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		05/04/24 18:02	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/04/24 18:02	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/04/24 18:02	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/04/24 18:02	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/04/24 18:02	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/04/24 18:02	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		05/04/24 18:02	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/04/24 18:02	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/04/24 18:02	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		05/04/24 18:02	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		05/04/24 18:02	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		05/04/24 18:02	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		05/04/24 18:02	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		05/04/24 18:02	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/04/24 18:02	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		05/04/24 18:02	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/04/24 18:02	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/04/24 18:02	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/04/24 18:02	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		05/04/24 18:02	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		05/04/24 18:02	1
2-Hexanone	10	U	20	10	3.2	ug/L		05/04/24 18:02	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/04/24 18:02	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/04/24 18:02	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/04/24 18:02	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		05/04/24 18:02	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/04/24 18:02	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		05/04/24 18:02	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		05/04/24 18:02	1
Styrene	1.0	U	2.0	1.0	0.27	ug/L		05/04/24 18:02	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-836369/8
Matrix: Water
Analysis Batch: 836369

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/04/24 18:02	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/04/24 18:02	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		05/04/24 18:02	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		05/04/24 18:02	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/04/24 18:02	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		05/04/24 18:02	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/04/24 18:02	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/04/24 18:02	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		05/04/24 18:02	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		05/04/24 18:02	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/04/24 18:02	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/04/24 18:02	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		05/04/24 18:02	1
Vinyl acetate	2.0	U M	2.5	2.0	0.69	ug/L		05/04/24 18:02	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		05/04/24 18:02	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		05/04/24 18:02	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		05/04/24 18:02	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		05/04/24 18:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*89 - 112*		*05/04/24 18:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*		*05/04/24 18:02*	*1*
4-Bromofluorobenzene (Surr)	*96*		*85 - 114*		*05/04/24 18:02*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 119*		*05/04/24 18:02*	*1*

Lab Sample ID: LCS 680-836369/4
Matrix: Water
Analysis Batch: 836369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	281		ug/L		112	39 - 160
Benzene	50.0	53.8		ug/L		108	79 - 120
Bromobenzene	50.0	54.7		ug/L		109	80 - 120
Chlorobromomethane	50.0	56.4		ug/L		113	78 - 123
Dichlorobromomethane	50.0	50.6		ug/L		101	79 - 125
Bromoform	50.0	41.9		ug/L		84	66 - 130
Bromomethane	50.0	114	Q	ug/L		229	53 - 141
2-Butanone (MEK)	250	280		ug/L		112	56 - 143
n-Butylbenzene	50.0	51.4		ug/L		103	75 - 128
sec-Butylbenzene	50.0	52.4		ug/L		105	77 - 126
tert-Butylbenzene	50.0	51.5		ug/L		103	78 - 124
Carbon disulfide	50.0	57.0		ug/L		114	64 - 133
Carbon tetrachloride	50.0	52.2		ug/L		104	72 - 136
Chlorobenzene	50.0	52.7		ug/L		105	82 - 118
Chloroethane	50.0	66.4		ug/L		133	60 - 138
Chloroform	50.0	53.2		ug/L		106	79 - 124
Chloromethane	50.0	55.8		ug/L		112	50 - 139
2-Chlorotoluene	50.0	51.8		ug/L		104	79 - 122

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-836369/4
Matrix: Water
Analysis Batch: 836369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorotoluene	50.0	52.0		ug/L		104	78 - 122
Chlorodibromomethane	50.0	48.4		ug/L		97	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	45.2		ug/L		90	62 - 128
Ethylene Dibromide	50.0	50.2		ug/L		100	75 - 127
Dibromomethane	50.0	51.6		ug/L		103	79 - 123
1,2-Dichlorobenzene	50.0	52.3		ug/L		105	80 - 119
1,3-Dichlorobenzene	50.0	53.5		ug/L		107	80 - 119
1,4-Dichlorobenzene	50.0	51.4		ug/L		103	79 - 118
Dichlorodifluoromethane	50.0	56.8		ug/L		114	32 - 152
1,1-Dichloroethane	50.0	55.0		ug/L		110	77 - 125
1,2-Dichloroethane	50.0	53.7		ug/L		107	73 - 128
cis-1,2-Dichloroethene	50.0	54.9		ug/L		110	78 - 123
trans-1,2-Dichloroethene	50.0	55.9		ug/L		112	75 - 124
1,2-Dichloroethene, Total	100	111		ug/L		111	79 - 121
1,1-Dichloroethene	50.0	56.1		ug/L		112	71 - 131
1,2-Dichloropropane	50.0	54.2		ug/L		108	78 - 122
1,3-Dichloropropane	50.0	52.2		ug/L		104	80 - 119
2,2-Dichloropropane	50.0	55.2		ug/L		110	60 - 139
1,1-Dichloropropene	50.0	56.5		ug/L		113	79 - 125
cis-1,3-Dichloropropene	50.0	52.0		ug/L		104	75 - 124
trans-1,3-Dichloropropene	50.0	51.6		ug/L		103	73 - 127
Ethylbenzene	50.0	55.0		ug/L		110	79 - 121
Hexachlorobutadiene	50.0	42.0		ug/L		84	66 - 134
2-Hexanone	250	264		ug/L		105	57 - 139
Isopropylbenzene	50.0	53.7		ug/L		107	72 - 131
4-Isopropyltoluene	50.0	52.2		ug/L		104	77 - 127
Methylene Chloride	50.0	54.1		ug/L		108	74 - 124
4-Methyl-2-pentanone (MIBK)	250	266		ug/L		106	67 - 130
Methyl tert-butyl ether	50.0	52.8		ug/L		106	71 - 124
Naphthalene	50.0	44.0		ug/L		88	61 - 128
N-Propylbenzene	50.0	55.0		ug/L		110	76 - 126
Styrene	50.0	54.7		ug/L		109	78 - 123
1,1,1,2-Tetrachloroethane	50.0	48.9		ug/L		98	78 - 124
1,1,2,2-Tetrachloroethane	50.0	53.2		ug/L		106	71 - 121
Tetrachloroethene	50.0	55.2		ug/L		110	74 - 129
Toluene	50.0	51.1		ug/L		102	80 - 121
1,2,3-Trichlorobenzene	50.0	43.7		ug/L		87	69 - 129
1,2,4-Trichlorobenzene	50.0	44.8		ug/L		90	69 - 130
1,1,1-Trichloroethane	50.0	53.8		ug/L		108	74 - 131
1,1,2-Trichloroethane	50.0	50.1		ug/L		100	80 - 119
Trichloroethene	50.0	53.0		ug/L		106	79 - 123
Trichlorofluoromethane	50.0	56.9		ug/L		114	65 - 141
1,2,3-Trichloropropane	50.0	51.8		ug/L		104	73 - 122
1,2,4-Trimethylbenzene	50.0	51.3		ug/L		103	76 - 124
1,3,5-Trimethylbenzene	50.0	52.3		ug/L		105	75 - 124
Vinyl acetate	100	135		ug/L		135	54 - 146
Vinyl chloride	50.0	53.3		ug/L		107	58 - 137
o-Xylene	50.0	54.0		ug/L		108	78 - 122
m-Xylene & p-Xylene	50.0	54.2		ug/L		108	80 - 121

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-836369/4
Matrix: Water
Analysis Batch: 836369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	108		ug/L		108	79 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*103*		*81 - 118*
4-Bromofluorobenzene (Surr)	*95*		*85 - 114*
Dibromofluoromethane (Surr)	*106*		*80 - 119*

Lab Sample ID: LCSD 680-836369/5
Matrix: Water
Analysis Batch: 836369

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
Acetone			250	291		ug/L		116	39 - 160	3	20
Benzene			50.0	54.0		ug/L		108	79 - 120	0	20
Bromobenzene			50.0	53.3		ug/L		107	80 - 120	3	20
Chlorobromomethane			50.0	56.7		ug/L		113	78 - 123	0	20
Dichlorobromomethane			50.0	51.4		ug/L		103	79 - 125	1	20
Bromoform			50.0	42.1		ug/L		84	66 - 130	0	20
Bromomethane			50.0	114	Q	ug/L		228	53 - 141	0	20
2-Butanone (MEK)			250	288		ug/L		115	56 - 143	3	20
n-Butylbenzene			50.0	51.0		ug/L		102	75 - 128	1	20
sec-Butylbenzene			50.0	51.7		ug/L		103	77 - 126	1	20
tert-Butylbenzene			50.0	50.1		ug/L		100	78 - 124	3	20
Carbon disulfide			50.0	56.3		ug/L		113	64 - 133	1	20
Carbon tetrachloride			50.0	52.2		ug/L		104	72 - 136	0	20
Chlorobenzene			50.0	52.1		ug/L		104	82 - 118	1	20
Chloroethane			50.0	66.2		ug/L		132	60 - 138	0	20
Chloroform			50.0	53.4		ug/L		107	79 - 124	0	20
Chloromethane			50.0	55.8		ug/L		112	50 - 139	0	20
2-Chlorotoluene			50.0	51.2		ug/L		102	79 - 122	1	20
4-Chlorotoluene			50.0	50.7		ug/L		101	78 - 122	3	20
Chlorodibromomethane			50.0	49.6		ug/L		99	74 - 126	3	20
1,2-Dibromo-3-Chloropropane			50.0	47.3		ug/L		95	62 - 128	4	20
Ethylene Dibromide			50.0	52.7		ug/L		105	75 - 127	5	20
Dibromomethane			50.0	53.2		ug/L		106	79 - 123	3	20
1,2-Dichlorobenzene			50.0	52.4		ug/L		105	80 - 119	0	20
1,3-Dichlorobenzene			50.0	54.2		ug/L		108	80 - 119	1	20
1,4-Dichlorobenzene			50.0	51.9		ug/L		104	79 - 118	1	20
Dichlorodifluoromethane			50.0	55.1		ug/L		110	32 - 152	3	20
1,1-Dichloroethane			50.0	55.4		ug/L		111	77 - 125	1	20
1,2-Dichloroethane			50.0	54.8		ug/L		110	73 - 128	2	20
cis-1,2-Dichloroethene			50.0	54.3		ug/L		109	78 - 123	1	20
trans-1,2-Dichloroethene			50.0	54.9		ug/L		110	75 - 124	2	20
1,2-Dichloroethene, Total			100	109		ug/L		109	79 - 121	1	20
1,1-Dichloroethene			50.0	55.0		ug/L		110	71 - 131	2	20
1,2-Dichloropropane			50.0	54.7		ug/L		109	78 - 122	1	20
1,3-Dichloropropane			50.0	53.0		ug/L		106	80 - 119	2	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-836369/5
Matrix: Water
Analysis Batch: 836369

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
2,2-Dichloropropane			50.0	54.6		ug/L		109	60 - 139	1	20
1,1-Dichloropropene			50.0	56.7		ug/L		113	79 - 125	0	20
cis-1,3-Dichloropropene			50.0	51.9		ug/L		104	75 - 124	0	20
trans-1,3-Dichloropropene			50.0	53.0		ug/L		106	73 - 127	3	20
Ethylbenzene			50.0	54.1		ug/L		108	79 - 121	2	20
Hexachlorobutadiene			50.0	42.8		ug/L		86	66 - 134	2	20
2-Hexanone			250	277		ug/L		111	57 - 139	5	20
Isopropylbenzene			50.0	53.2		ug/L		106	72 - 131	1	20
4-Isopropyltoluene			50.0	52.1		ug/L		104	77 - 127	0	20
Methylene Chloride			50.0	54.3		ug/L		109	74 - 124	0	20
4-Methyl-2-pentanone (MIBK)			250	277		ug/L		111	67 - 130	4	20
Methyl tert-butyl ether			50.0	53.9		ug/L		108	71 - 124	2	20
Naphthalene			50.0	45.7		ug/L		91	61 - 128	4	20
N-Propylbenzene			50.0	53.6		ug/L		107	76 - 126	3	20
Styrene			50.0	54.0		ug/L		108	78 - 123	1	20
1,1,1,2-Tetrachloroethane			50.0	48.0		ug/L		96	78 - 124	2	20
1,1,2,2-Tetrachloroethane			50.0	54.0		ug/L		108	71 - 121	2	20
Tetrachloroethene			50.0	53.8		ug/L		108	74 - 129	2	20
Toluene			50.0	51.5		ug/L		103	80 - 121	1	20
1,2,3-Trichlorobenzene			50.0	44.7		ug/L		89	69 - 129	2	20
1,2,4-Trichlorobenzene			50.0	45.8		ug/L		92	69 - 130	2	20
1,1,1-Trichloroethane			50.0	53.1		ug/L		106	74 - 131	1	20
1,1,2-Trichloroethane			50.0	51.1		ug/L		102	80 - 119	2	20
Trichloroethene			50.0	53.2		ug/L		106	79 - 123	0	20
Trichlorofluoromethane			50.0	56.1		ug/L		112	65 - 141	1	20
1,2,3-Trichloropropane			50.0	53.0		ug/L		106	73 - 122	2	20
1,2,4-Trimethylbenzene			50.0	50.5		ug/L		101	76 - 124	2	20
1,3,5-Trimethylbenzene			50.0	52.2		ug/L		104	75 - 124	0	20
Vinyl acetate			100	136		ug/L		136	54 - 146	0	20
Vinyl chloride			50.0	52.7		ug/L		105	58 - 137	1	20
o-Xylene			50.0	53.5		ug/L		107	78 - 122	1	20
m-Xylene & p-Xylene			50.0	53.1		ug/L		106	80 - 121	2	20
Xylenes, Total			100	107		ug/L		107	79 - 121	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*106*		*81 - 118*
4-Bromofluorobenzene (Surr)	*95*		*85 - 114*
Dibromofluoromethane (Surr)	*107*		*80 - 119*

Lab Sample ID: 680-249958-4 MS
Matrix: Water
Analysis Batch: 836369

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	10	U Q	250	231		ug/L		92	39 - 160
Benzene	1.0	U Q	50.0	52.5		ug/L		105	79 - 120
Bromobenzene	0.50	U Q	50.0	52.5		ug/L		105	80 - 120

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-249958-4 MS
Matrix: Water
Analysis Batch: 836369

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobromomethane	1.0	U Q	50.0	56.9		ug/L		114	78 - 123
Dichlorobromomethane	1.0	U Q	50.0	48.7		ug/L		97	79 - 125
Bromoform	2.0	U Q	50.0	39.6		ug/L		79	66 - 130
2-Butanone (MEK)	20	U Q	250	247		ug/L		99	56 - 143
n-Butylbenzene	2.0	U	50.0	51.7		ug/L		103	75 - 128
sec-Butylbenzene	2.0	U Q	50.0	51.9		ug/L		104	77 - 126
tert-Butylbenzene	1.0	U Q	50.0	51.3		ug/L		103	78 - 124
Carbon disulfide	1.0	U Q	50.0	58.9		ug/L		118	64 - 133
Carbon tetrachloride	1.0	U Q	50.0	52.9		ug/L		106	72 - 136
Chlorobenzene	0.50	U Q	50.0	50.1		ug/L		100	82 - 118
Chloroethane	10	U Q J1	50.0	74.0	J1	ug/L		148	60 - 138
Chloroform	1.0	U Q	50.0	52.7		ug/L		105	79 - 124
Chloromethane	2.0	U Q	50.0	58.4		ug/L		117	50 - 139
2-Chlorotoluene	0.50	U Q	50.0	50.8		ug/L		102	79 - 122
4-Chlorotoluene	0.47	J Q	50.0	49.7		ug/L		99	78 - 122
Chlorodibromomethane	1.0	U Q	50.0	47.0		ug/L		94	74 - 126
1,2-Dibromo-3-Chloropropane	5.0	U	50.0	40.2		ug/L		80	62 - 128
Ethylene Dibromide	1.0	U Q	50.0	47.9		ug/L		96	75 - 127
Dibromomethane	1.0	U Q	50.0	49.8		ug/L		100	79 - 123
1,2-Dichlorobenzene	1.0	U	50.0	50.5		ug/L		101	80 - 119
1,3-Dichlorobenzene	1.0	U	50.0	53.1		ug/L		106	80 - 119
1,4-Dichlorobenzene	1.0	U	50.0	51.1		ug/L		102	79 - 118
Dichlorodifluoromethane	1.0	U Q	50.0	55.5		ug/L		111	32 - 152
1,1-Dichloroethane	1.0	U Q	50.0	56.3		ug/L		113	77 - 125
1,2-Dichloroethane	1.0	U Q	50.0	51.8		ug/L		104	73 - 128
cis-1,2-Dichloroethene	13	Q	50.0	58.7		ug/L		91	78 - 123
trans-1,2-Dichloroethene	0.49	J Q	50.0	56.4		ug/L		112	75 - 124
1,2-Dichloroethene, Total	14		100	115		ug/L		101	79 - 121
1,1-Dichloroethene	1.0	U Q	50.0	58.4		ug/L		117	71 - 131
1,2-Dichloropropane	0.50	U Q	50.0	52.8		ug/L		106	78 - 122
1,3-Dichloropropane	1.0	U Q	50.0	49.7		ug/L		99	80 - 119
2,2-Dichloropropane	1.0	U Q	50.0	49.9	M	ug/L		100	60 - 139
1,1-Dichloropropene	1.0	U Q	50.0	56.0		ug/L		112	79 - 125
cis-1,3-Dichloropropene	1.0	U Q	50.0	48.2		ug/L		96	75 - 124
trans-1,3-Dichloropropene	1.0	U Q	50.0	47.5		ug/L		95	73 - 127
Ethylbenzene	0.50	U Q	50.0	54.8		ug/L		110	79 - 121
Hexachlorobutadiene	1.0	U	50.0	38.2	M	ug/L		76	66 - 134
2-Hexanone	10	U Q	250	243		ug/L		97	57 - 139
Isopropylbenzene	1.0	U Q	50.0	54.0		ug/L		108	72 - 131
4-Isopropyltoluene	1.0	U	50.0	53.2		ug/L		106	77 - 127
Methylene Chloride	10	U Q	50.0	53.3		ug/L		107	74 - 124
4-Methyl-2-pentanone (MIBK)	10	U Q	250	251		ug/L		101	67 - 130
Methyl tert-butyl ether	2.0	U Q	50.0	48.8		ug/L		98	71 - 124
Naphthalene	5.0	U	50.0	36.5		ug/L		73	61 - 128
N-Propylbenzene	1.0	U Q	50.0	54.5		ug/L		109	76 - 126
Styrene	1.0	U Q	50.0	53.1		ug/L		106	78 - 123
1,1,1,2-Tetrachloroethane	1.0	U Q	50.0	47.0		ug/L		94	78 - 124
1,1,2,2-Tetrachloroethane	1.0	U Q	50.0	49.6		ug/L		99	71 - 121
Tetrachloroethene	1.0	U Q	50.0	54.9		ug/L		110	74 - 129

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-249958-4 MS
Matrix: Water
Analysis Batch: 836369

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	1.0	U Q	50.0	51.8		ug/L		104	80 - 121
1,2,3-Trichlorobenzene	2.0	U	50.0	36.9		ug/L		74	69 - 129
1,2,4-Trichlorobenzene	2.0	U	50.0	39.2		ug/L		78	69 - 130
1,1,1-Trichloroethane	0.50	U Q	50.0	53.2		ug/L		106	74 - 131
1,1,2-Trichloroethane	1.0	U Q	50.0	46.8		ug/L		94	80 - 119
Trichloroethene	0.50	U Q	50.0	50.6		ug/L		101	79 - 123
Trichlorofluoromethane	1.0	U Q	50.0	59.3		ug/L		119	65 - 141
1,2,3-Trichloropropane	1.0	U Q	50.0	47.7		ug/L		95	73 - 122
1,2,4-Trimethylbenzene	0.70	J Q	50.0	50.8		ug/L		100	76 - 124
1,3,5-Trimethylbenzene	1.0	U Q	50.0	52.7		ug/L		105	75 - 124
Vinyl acetate	2.0	U Q	100	134		ug/L		134	54 - 146
Vinyl chloride	2.7	Q	50.0	57.0		ug/L		109	58 - 137
o-Xylene	1.0	U Q	50.0	53.4		ug/L		107	78 - 122
m-Xylene & p-Xylene	1.0	U Q	50.0	53.4		ug/L		107	80 - 121
Xylenes, Total	1.0	U	100	107		ug/L		107	79 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*
4-Bromofluorobenzene (Surr)	*94*		*85 - 114*
Dibromofluoromethane (Surr)	*104*		*80 - 119*

Lab Sample ID: 680-249958-4 MSD
Matrix: Water
Analysis Batch: 836369

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	10	U Q	250	250		ug/L		100	39 - 160	8	20
Benzene	1.0	U Q	50.0	53.7		ug/L		107	79 - 120	2	20
Bromobenzene	0.50	U Q	50.0	53.5		ug/L		107	80 - 120	2	20
Chlorobromomethane	1.0	U Q	50.0	58.2		ug/L		116	78 - 123	2	20
Dichlorobromomethane	1.0	U Q	50.0	50.9		ug/L		102	79 - 125	4	20
Bromoform	2.0	U Q	50.0	43.2		ug/L		86	66 - 130	9	20
2-Butanone (MEK)	20	U Q	250	265		ug/L		106	56 - 143	7	20
n-Butylbenzene	2.0	U	50.0	51.8		ug/L		104	75 - 128	0	20
sec-Butylbenzene	2.0	U Q	50.0	53.1		ug/L		106	77 - 126	2	20
tert-Butylbenzene	1.0	U Q	50.0	51.9		ug/L		104	78 - 124	1	20
Carbon disulfide	1.0	U Q	50.0	59.8		ug/L		120	64 - 133	2	20
Carbon tetrachloride	1.0	U Q	50.0	54.6		ug/L		109	72 - 136	3	20
Chlorobenzene	0.50	U Q	50.0	50.5		ug/L		101	82 - 118	1	20
Chloroethane	10	U Q J1	50.0	73.8	J1	ug/L		148	60 - 138	0	20
Chloroform	1.0	U Q	50.0	54.6		ug/L		109	79 - 124	4	20
Chloromethane	2.0	U Q	50.0	59.8		ug/L		120	50 - 139	2	20
2-Chlorotoluene	0.50	U Q	50.0	51.2		ug/L		102	79 - 122	1	20
4-Chlorotoluene	0.47	J Q	50.0	51.1		ug/L		101	78 - 122	3	20
Chlorodibromomethane	1.0	U Q	50.0	48.9		ug/L		98	74 - 126	4	20
1,2-Dibromo-3-Chloropropane	5.0	U	50.0	42.7		ug/L		85	62 - 128	6	20
Ethylene Dibromide	1.0	U Q	50.0	49.5		ug/L		99	75 - 127	3	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-249958-4 MSD
Matrix: Water
Analysis Batch: 836369

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibromomethane	1.0	U Q	50.0	51.3		ug/L		103	79 - 123	3	20
1,2-Dichlorobenzene	1.0	U	50.0	52.2		ug/L		104	80 - 119	3	20
1,3-Dichlorobenzene	1.0	U	50.0	53.9		ug/L		108	80 - 119	2	20
1,4-Dichlorobenzene	1.0	U	50.0	52.0		ug/L		104	79 - 118	2	20
Dichlorodifluoromethane	1.0	U Q	50.0	56.3		ug/L		113	32 - 152	1	20
1,1-Dichloroethane	1.0	U Q	50.0	57.1		ug/L		114	77 - 125	1	20
1,2-Dichloroethane	1.0	U Q	50.0	54.4		ug/L		109	73 - 128	5	20
cis-1,2-Dichloroethene	13	Q	50.0	60.1		ug/L		94	78 - 123	2	20
trans-1,2-Dichloroethene	0.49	J Q	50.0	57.4		ug/L		114	75 - 124	2	20
1,2-Dichloroethene, Total	14		100	117		ug/L		104	79 - 121	2	20
1,1-Dichloroethene	1.0	U Q	50.0	57.7		ug/L		115	71 - 131	1	20
1,2-Dichloropropane	0.50	U Q	50.0	54.0		ug/L		108	78 - 122	2	20
1,3-Dichloropropane	1.0	U Q	50.0	52.5		ug/L		105	80 - 119	5	20
2,2-Dichloropropane	1.0	U Q	50.0	51.9	M	ug/L		104	60 - 139	4	20
1,1-Dichloropropene	1.0	U Q	50.0	56.9		ug/L		114	79 - 125	2	20
cis-1,3-Dichloropropene	1.0	U Q	50.0	49.6		ug/L		99	75 - 124	3	20
trans-1,3-Dichloropropene	1.0	U Q	50.0	50.1		ug/L		100	73 - 127	5	20
Ethylbenzene	0.50	U Q	50.0	55.7		ug/L		111	79 - 121	2	20
Hexachlorobutadiene	1.0	U	50.0	40.7	M	ug/L		81	66 - 134	7	20
2-Hexanone	10	U Q	250	262		ug/L		105	57 - 139	8	20
Isopropylbenzene	1.0	U Q	50.0	54.4		ug/L		109	72 - 131	1	20
4-Isopropyltoluene	1.0	U	50.0	53.3		ug/L		107	77 - 127	0	20
Methylene Chloride	10	U Q	50.0	55.0		ug/L		110	74 - 124	3	20
4-Methyl-2-pentanone (MIBK)	10	U Q	250	268		ug/L		107	67 - 130	7	20
Methyl tert-butyl ether	2.0	U Q	50.0	51.5		ug/L		103	71 - 124	5	20
Naphthalene	5.0	U	50.0	40.8		ug/L		82	61 - 128	11	20
N-Propylbenzene	1.0	U Q	50.0	54.1		ug/L		108	76 - 126	1	20
Styrene	1.0	U Q	50.0	54.5		ug/L		109	78 - 123	3	20
1,1,1,2-Tetrachloroethane	1.0	U Q	50.0	48.4		ug/L		97	78 - 124	3	20
1,1,2,2-Tetrachloroethane	1.0	U Q	50.0	52.7		ug/L		105	71 - 121	6	20
Tetrachloroethene	1.0	U Q	50.0	55.8		ug/L		112	74 - 129	2	20
Toluene	1.0	U Q	50.0	53.3		ug/L		107	80 - 121	3	20
1,2,3-Trichlorobenzene	2.0	U	50.0	40.2		ug/L		80	69 - 129	9	20
1,2,4-Trichlorobenzene	2.0	U	50.0	41.9		ug/L		84	69 - 130	7	20
1,1,1-Trichloroethane	0.50	U Q	50.0	55.0		ug/L		110	74 - 131	3	20
1,1,2-Trichloroethane	1.0	U Q	50.0	49.1		ug/L		98	80 - 119	5	20
Trichloroethene	0.50	U Q	50.0	51.6		ug/L		103	79 - 123	2	20
Trichlorofluoromethane	1.0	U Q	50.0	59.7		ug/L		119	65 - 141	1	20
1,2,3-Trichloropropane	1.0	U Q	50.0	50.9		ug/L		102	73 - 122	6	20
1,2,4-Trimethylbenzene	0.70	J Q	50.0	51.7		ug/L		102	76 - 124	2	20
1,3,5-Trimethylbenzene	1.0	U Q	50.0	53.4		ug/L		107	75 - 124	1	20
Vinyl acetate	2.0	U Q	100	144		ug/L		144	54 - 146	7	20
Vinyl chloride	2.7	Q	50.0	57.2		ug/L		109	58 - 137	0	20
o-Xylene	1.0	U Q	50.0	54.5		ug/L		109	78 - 122	2	20
m-Xylene & p-Xylene	1.0	U Q	50.0	54.8		ug/L		110	80 - 121	3	20
Xylenes, Total	1.0	U	100	109		ug/L		109	79 - 121	2	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-249958-4 MSD
Matrix: Water
Analysis Batch: 836369

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*106*		*81 - 118*
4-Bromofluorobenzene (Surr)	*96*		*85 - 114*
Dibromofluoromethane (Surr)	*109*		*80 - 119*

Lab Sample ID: MB 680-836473/8
Matrix: Water
Analysis Batch: 836473

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		05/06/24 14:26	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		05/06/24 14:26	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		05/06/24 14:26	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/06/24 14:26	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/06/24 14:26	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		05/06/24 14:26	1
Bromomethane	10	U	20	10	3.7	ug/L		05/06/24 14:26	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		05/06/24 14:26	1
n-Butylbenzene	0.523	J	2.5	2.0	0.52	ug/L		05/06/24 14:26	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/06/24 14:26	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/06/24 14:26	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		05/06/24 14:26	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		05/06/24 14:26	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/06/24 14:26	1
Chloroethane	10	U	20	10	4.6	ug/L		05/06/24 14:26	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/06/24 14:26	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		05/06/24 14:26	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		05/06/24 14:26	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		05/06/24 14:26	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/06/24 14:26	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		05/06/24 14:26	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 14:26	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/06/24 14:26	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 14:26	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 14:26	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/06/24 14:26	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 14:26	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 14:26	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/06/24 14:26	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		05/06/24 14:26	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		05/06/24 14:26	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		05/06/24 14:26	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 14:26	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		05/06/24 14:26	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 14:26	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		05/06/24 14:26	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/06/24 14:26	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/06/24 14:26	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-836473/8
Matrix: Water
Analysis Batch: 836473

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/06/24 14:26	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		05/06/24 14:26	1
Hexachlorobutadiene	0.639	J	5.0	1.0	0.22	ug/L		05/06/24 14:26	1
2-Hexanone	10	U	20	10	3.2	ug/L		05/06/24 14:26	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/06/24 14:26	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/06/24 14:26	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/06/24 14:26	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		05/06/24 14:26	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/06/24 14:26	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		05/06/24 14:26	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		05/06/24 14:26	1
Styrene	0.368	J	2.0	1.0	0.27	ug/L		05/06/24 14:26	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/06/24 14:26	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/06/24 14:26	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		05/06/24 14:26	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		05/06/24 14:26	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/06/24 14:26	1
1,2,4-Trichlorobenzene	0.657	J	5.0	2.0	0.53	ug/L		05/06/24 14:26	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/06/24 14:26	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/06/24 14:26	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		05/06/24 14:26	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		05/06/24 14:26	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/06/24 14:26	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/06/24 14:26	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		05/06/24 14:26	1
Vinyl acetate	2.0	U	2.5	2.0	0.69	ug/L		05/06/24 14:26	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		05/06/24 14:26	1
o-Xylene	0.301	J	2.0	1.0	0.26	ug/L		05/06/24 14:26	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		05/06/24 14:26	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		05/06/24 14:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*89 - 112*		*05/06/24 14:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*81 - 118*		*05/06/24 14:26*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*05/06/24 14:26*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 119*		*05/06/24 14:26*	*1*

Lab Sample ID: LCS 680-836473/5
Matrix: Water
Analysis Batch: 836473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	237		ug/L		95	39 - 160
Benzene	50.0	51.9		ug/L		104	79 - 120
Bromobenzene	50.0	52.0		ug/L		104	80 - 120
Chlorobromomethane	50.0	50.1		ug/L		100	78 - 123
Dichlorobromomethane	50.0	50.5		ug/L		101	79 - 125
Bromoform	50.0	48.7		ug/L		97	66 - 130

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-836473/5
Matrix: Water
Analysis Batch: 836473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	50.0	51.1		ug/L		102	53 - 141
2-Butanone (MEK)	250	255		ug/L		102	56 - 143
n-Butylbenzene	50.0	60.8		ug/L		122	75 - 128
sec-Butylbenzene	50.0	60.0		ug/L		120	77 - 126
tert-Butylbenzene	50.0	58.5		ug/L		117	78 - 124
Carbon disulfide	50.0	61.0		ug/L		122	64 - 133
Carbon tetrachloride	50.0	61.2		ug/L		122	72 - 136
Chlorobenzene	50.0	50.0		ug/L		100	82 - 118
Chloroethane	50.0	50.9		ug/L		102	60 - 138
Chloroform	50.0	50.3		ug/L		101	79 - 124
Chloromethane	50.0	51.8		ug/L		104	50 - 139
2-Chlorotoluene	50.0	55.2		ug/L		110	79 - 122
4-Chlorotoluene	50.0	53.9		ug/L		108	78 - 122
Chlorodibromomethane	50.0	46.7		ug/L		93	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	51.0		ug/L		102	62 - 128
Ethylene Dibromide	50.0	49.4		ug/L		99	75 - 127
Dibromomethane	50.0	49.4		ug/L		99	79 - 123
1,2-Dichlorobenzene	50.0	53.4		ug/L		107	80 - 119
1,3-Dichlorobenzene	50.0	54.3		ug/L		109	80 - 119
1,4-Dichlorobenzene	50.0	53.2		ug/L		106	79 - 118
Dichlorodifluoromethane	50.0	54.0		ug/L		108	32 - 152
1,1-Dichloroethane	50.0	51.6		ug/L		103	77 - 125
1,2-Dichloroethane	50.0	49.9		ug/L		100	73 - 128
cis-1,2-Dichloroethene	50.0	51.1		ug/L		102	78 - 123
trans-1,2-Dichloroethene	50.0	55.7		ug/L		111	75 - 124
1,2-Dichloroethene, Total	100	107		ug/L		107	79 - 121
1,1-Dichloroethene	50.0	60.5		ug/L		121	71 - 131
1,2-Dichloropropane	50.0	50.0		ug/L		100	78 - 122
1,3-Dichloropropane	50.0	49.2		ug/L		98	80 - 119
2,2-Dichloropropane	50.0	56.9		ug/L		114	60 - 139
1,1-Dichloropropene	50.0	57.4		ug/L		115	79 - 125
cis-1,3-Dichloropropene	50.0	50.3		ug/L		101	75 - 124
trans-1,3-Dichloropropene	50.0	50.0		ug/L		100	73 - 127
Ethylbenzene	50.0	56.5		ug/L		113	79 - 121
Hexachlorobutadiene	50.0	63.7		ug/L		127	66 - 134
2-Hexanone	250	256		ug/L		103	57 - 139
Isopropylbenzene	50.0	57.3		ug/L		115	72 - 131
4-Isopropyltoluene	50.0	58.6		ug/L		117	77 - 127
Methylene Chloride	50.0	51.4		ug/L		103	74 - 124
4-Methyl-2-pentanone (MIBK)	250	258		ug/L		103	67 - 130
Methyl tert-butyl ether	50.0	52.2		ug/L		104	71 - 124
Naphthalene	50.0	53.4		ug/L		107	61 - 128
N-Propylbenzene	50.0	58.1		ug/L		116	76 - 126
Styrene	50.0	51.2		ug/L		102	78 - 123
1,1,1,2-Tetrachloroethane	50.0	54.7		ug/L		109	78 - 124
1,1,2,2-Tetrachloroethane	50.0	54.1		ug/L		108	71 - 121
Tetrachloroethene	50.0	55.2		ug/L		110	74 - 129
Toluene	50.0	53.8		ug/L		108	80 - 121
1,2,3-Trichlorobenzene	50.0	58.0		ug/L		116	69 - 129

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-836473/5
Matrix: Water
Analysis Batch: 836473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	56.3		ug/L		113	69 - 130
1,1,1-Trichloroethane	50.0	54.5		ug/L		109	74 - 131
1,1,2-Trichloroethane	50.0	48.9		ug/L		98	80 - 119
Trichloroethene	50.0	50.0		ug/L		100	79 - 123
Trichlorofluoromethane	50.0	58.1		ug/L		116	65 - 141
1,2,3-Trichloropropane	50.0	51.2		ug/L		102	73 - 122
1,2,4-Trimethylbenzene	50.0	55.5		ug/L		111	76 - 124
1,3,5-Trimethylbenzene	50.0	55.4		ug/L		111	75 - 124
Vinyl acetate	100	173	Q	ug/L		173	54 - 146
Vinyl chloride	50.0	53.5		ug/L		107	58 - 137
o-Xylene	50.0	52.3		ug/L		105	78 - 122
m-Xylene & p-Xylene	50.0	55.4		ug/L		111	80 - 121
Xylenes, Total	100	108		ug/L		108	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*
Dibromofluoromethane (Surr)	*101*		*80 - 119*

Lab Sample ID: LCSD 680-836473/9
Matrix: Water
Analysis Batch: 836473

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
Acetone	250	249		ug/L		100	39 - 160	5	20
Benzene	50.0	53.5		ug/L		107	79 - 120	3	20
Bromobenzene	50.0	52.2		ug/L		104	80 - 120	1	20
Chlorobromomethane	50.0	51.7		ug/L		103	78 - 123	3	20
Dichlorobromomethane	50.0	53.0		ug/L		106	79 - 125	5	20
Bromoform	50.0	51.1		ug/L		102	66 - 130	5	20
Bromomethane	50.0	52.5		ug/L		105	53 - 141	3	20
2-Butanone (MEK)	250	264		ug/L		106	56 - 143	3	20
n-Butylbenzene	50.0	55.5		ug/L		111	75 - 128	9	20
sec-Butylbenzene	50.0	53.9		ug/L		108	77 - 126	11	20
tert-Butylbenzene	50.0	53.7		ug/L		107	78 - 124	9	20
Carbon disulfide	50.0	58.5		ug/L		117	64 - 133	4	20
Carbon tetrachloride	50.0	57.6		ug/L		115	72 - 136	6	20
Chlorobenzene	50.0	51.0		ug/L		102	82 - 118	2	20
Chloroethane	50.0	52.5		ug/L		105	60 - 138	3	20
Chloroform	50.0	52.1		ug/L		104	79 - 124	3	20
Chloromethane	50.0	51.5		ug/L		103	50 - 139	1	20
2-Chlorotoluene	50.0	53.7		ug/L		107	79 - 122	3	20
4-Chlorotoluene	50.0	52.7		ug/L		105	78 - 122	2	20
Chlorodibromomethane	50.0	49.3		ug/L		99	74 - 126	5	20
1,2-Dibromo-3-Chloropropane	50.0	53.1		ug/L		106	62 - 128	4	20
Ethylene Dibromide	50.0	51.5		ug/L		103	75 - 127	4	20
Dibromomethane	50.0	51.3		ug/L		103	79 - 123	4	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-836473/9
Matrix: Water
Analysis Batch: 836473

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
1,2-Dichlorobenzene			50.0	54.2		ug/L		108	80 - 119	2	20
1,3-Dichlorobenzene			50.0	54.2		ug/L		108	80 - 119	0	20
1,4-Dichlorobenzene			50.0	53.5		ug/L		107	79 - 118	1	20
Dichlorodifluoromethane			50.0	49.6		ug/L		99	32 - 152	9	20
1,1-Dichloroethane			50.0	52.6		ug/L		105	77 - 125	2	20
1,2-Dichloroethane			50.0	52.3		ug/L		105	73 - 128	5	20
cis-1,2-Dichloroethene			50.0	52.9		ug/L		106	78 - 123	4	20
trans-1,2-Dichloroethene			50.0	55.9		ug/L		112	75 - 124	0	20
1,2-Dichloroethene, Total			100	109		ug/L		109	79 - 121	2	20
1,1-Dichloroethene			50.0	57.1		ug/L		114	71 - 131	6	20
1,2-Dichloropropane			50.0	51.5		ug/L		103	78 - 122	3	20
1,3-Dichloropropane			50.0	51.7		ug/L		103	80 - 119	5	20
2,2-Dichloropropane			50.0	58.5		ug/L		117	60 - 139	3	20
1,1-Dichloropropene			50.0	54.1		ug/L		108	79 - 125	6	20
cis-1,3-Dichloropropene			50.0	52.5		ug/L		105	75 - 124	4	20
trans-1,3-Dichloropropene			50.0	52.7		ug/L		105	73 - 127	5	20
Ethylbenzene			50.0	54.9		ug/L		110	79 - 121	3	20
Hexachlorobutadiene			50.0	56.6		ug/L		113	66 - 134	12	20
2-Hexanone			250	265		ug/L		106	57 - 139	3	20
Isopropylbenzene			50.0	54.3		ug/L		109	72 - 131	5	20
4-Isopropyltoluene			50.0	54.8		ug/L		110	77 - 127	7	20
Methylene Chloride			50.0	54.0		ug/L		108	74 - 124	5	20
4-Methyl-2-pentanone (MIBK)			250	264		ug/L		105	67 - 130	2	20
Methyl tert-butyl ether			50.0	56.3		ug/L		113	71 - 124	8	20
Naphthalene			50.0	53.7		ug/L		107	61 - 128	1	20
N-Propylbenzene			50.0	53.9		ug/L		108	76 - 126	7	20
Styrene			50.0	51.6		ug/L		103	78 - 123	1	20
1,1,1,2-Tetrachloroethane			50.0	56.4		ug/L		113	78 - 124	3	20
1,1,2,2-Tetrachloroethane			50.0	57.0		ug/L		114	71 - 121	5	20
Tetrachloroethene			50.0	51.9		ug/L		104	74 - 129	6	20
Toluene			50.0	54.2		ug/L		108	80 - 121	1	20
1,2,3-Trichlorobenzene			50.0	56.6		ug/L		113	69 - 129	2	20
1,2,4-Trichlorobenzene			50.0	55.3		ug/L		111	69 - 130	2	20
1,1,1-Trichloroethane			50.0	53.7		ug/L		107	74 - 131	2	20
1,1,2-Trichloroethane			50.0	51.4		ug/L		103	80 - 119	5	20
Trichloroethene			50.0	48.5		ug/L		97	79 - 123	3	20
Trichlorofluoromethane			50.0	53.2		ug/L		106	65 - 141	9	20
1,2,3-Trichloropropane			50.0	53.7		ug/L		107	73 - 122	5	20
1,2,4-Trimethylbenzene			50.0	53.3		ug/L		107	76 - 124	4	20
1,3,5-Trimethylbenzene			50.0	52.5		ug/L		105	75 - 124	6	20
Vinyl acetate			100	259	J1 Q	ug/L		259	54 - 146	40	20
Vinyl chloride			50.0	52.1		ug/L		104	58 - 137	3	20
o-Xylene			50.0	51.5		ug/L		103	78 - 122	2	20
m-Xylene & p-Xylene			50.0	54.3		ug/L		109	80 - 121	2	20
Xylenes, Total			100	106		ug/L		106	79 - 121	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*89 - 112*

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-836473/9
Matrix: Water
Analysis Batch: 836473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*81 - 118*
4-Bromofluorobenzene (Surr)	*101*		*85 - 114*
Dibromofluoromethane (Surr)	*107*		*80 - 119*

Lab Sample ID: 680-249958-4 MS
Matrix: Water
Analysis Batch: 836473

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	10	U	50.0	33.5		ug/L		67	53 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*
Dibromofluoromethane (Surr)	*102*		*80 - 119*

Lab Sample ID: 680-249958-4 MSD
Matrix: Water
Analysis Batch: 836473

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	10	U	50.0	36.8		ug/L		74	53 - 141	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*100*		*81 - 118*
4-Bromofluorobenzene (Surr)	*105*		*85 - 114*
Dibromofluoromethane (Surr)	*104*		*80 - 119*

Lab Sample ID: MB 680-836681/9
Matrix: Water
Analysis Batch: 836681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		05/07/24 13:38	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		05/07/24 13:38	1
Bromobenzene	0.263	J	1.0	0.50	0.24	ug/L		05/07/24 13:38	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/07/24 13:38	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		05/07/24 13:38	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		05/07/24 13:38	1
Bromomethane	10	U	20	10	3.7	ug/L		05/07/24 13:38	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		05/07/24 13:38	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		05/07/24 13:38	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		05/07/24 13:38	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/07/24 13:38	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		05/07/24 13:38	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		05/07/24 13:38	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-836681/9
Matrix: Water
Analysis Batch: 836681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		05/07/24 13:38	1
Chloroethane	10	U	20	10	4.6	ug/L		05/07/24 13:38	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		05/07/24 13:38	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		05/07/24 13:38	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		05/07/24 13:38	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		05/07/24 13:38	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		05/07/24 13:38	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		05/07/24 13:38	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		05/07/24 13:38	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		05/07/24 13:38	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/07/24 13:38	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/07/24 13:38	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		05/07/24 13:38	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		05/07/24 13:38	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		05/07/24 13:38	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		05/07/24 13:38	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		05/07/24 13:38	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		05/07/24 13:38	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		05/07/24 13:38	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		05/07/24 13:38	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		05/07/24 13:38	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		05/07/24 13:38	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		05/07/24 13:38	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		05/07/24 13:38	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		05/07/24 13:38	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		05/07/24 13:38	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		05/07/24 13:38	1
Hexachlorobutadiene	0.578	J	5.0	1.0	0.22	ug/L		05/07/24 13:38	1
2-Hexanone	10	U	20	10	3.2	ug/L		05/07/24 13:38	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		05/07/24 13:38	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		05/07/24 13:38	1
Methylene Chloride	10	U	20	10	3.2	ug/L		05/07/24 13:38	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		05/07/24 13:38	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		05/07/24 13:38	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		05/07/24 13:38	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		05/07/24 13:38	1
Styrene	1.0	U	2.0	1.0	0.27	ug/L		05/07/24 13:38	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		05/07/24 13:38	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		05/07/24 13:38	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		05/07/24 13:38	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		05/07/24 13:38	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		05/07/24 13:38	1
1,2,4-Trichlorobenzene	0.590	J	5.0	2.0	0.53	ug/L		05/07/24 13:38	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		05/07/24 13:38	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		05/07/24 13:38	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		05/07/24 13:38	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		05/07/24 13:38	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		05/07/24 13:38	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		05/07/24 13:38	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-836681/9
Matrix: Water
Analysis Batch: 836681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		05/07/24 13:38	1
Vinyl acetate	2.0	U M	2.5	2.0	0.69	ug/L		05/07/24 13:38	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		05/07/24 13:38	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		05/07/24 13:38	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		05/07/24 13:38	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		05/07/24 13:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*89 - 112*		*05/07/24 13:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*81 - 118*		*05/07/24 13:38*	*1*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*		*05/07/24 13:38*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*05/07/24 13:38*	*1*

Lab Sample ID: LCS 680-836681/4
Matrix: Water
Analysis Batch: 836681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	253		ug/L		101	39 - 160
Benzene	50.0	54.3		ug/L		109	79 - 120
Bromobenzene	50.0	51.8		ug/L		104	80 - 120
Chlorobromomethane	50.0	52.9		ug/L		106	78 - 123
Dichlorobromomethane	50.0	54.2		ug/L		108	79 - 125
Bromoform	50.0	49.1		ug/L		98	66 - 130
Bromomethane	50.0	41.8		ug/L		84	53 - 141
2-Butanone (MEK)	250	278		ug/L		111	56 - 143
n-Butylbenzene	50.0	56.9		ug/L		114	75 - 128
sec-Butylbenzene	50.0	54.3		ug/L		109	77 - 126
tert-Butylbenzene	50.0	54.1		ug/L		108	78 - 124
Carbon disulfide	50.0	58.8		ug/L		118	64 - 133
Carbon tetrachloride	50.0	58.3		ug/L		117	72 - 136
Chlorobenzene	50.0	51.0		ug/L		102	82 - 118
Chloroethane	50.0	50.6		ug/L		101	60 - 138
Chloroform	50.0	53.3		ug/L		107	79 - 124
Chloromethane	50.0	43.3		ug/L		87	50 - 139
2-Chlorotoluene	50.0	53.3		ug/L		107	79 - 122
4-Chlorotoluene	50.0	53.0		ug/L		106	78 - 122
Chlorodibromomethane	50.0	49.8		ug/L		100	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	53.0		ug/L		106	62 - 128
Ethylene Dibromide	50.0	53.2		ug/L		106	75 - 127
Dibromomethane	50.0	52.6		ug/L		105	79 - 123
1,2-Dichlorobenzene	50.0	54.7		ug/L		109	80 - 119
1,3-Dichlorobenzene	50.0	55.2		ug/L		110	80 - 119
1,4-Dichlorobenzene	50.0	54.2		ug/L		108	79 - 118
Dichlorodifluoromethane	50.0	44.1		ug/L		88	32 - 152
1,1-Dichloroethane	50.0	54.3		ug/L		109	77 - 125
1,2-Dichloroethane	50.0	53.7		ug/L		107	73 - 128
cis-1,2-Dichloroethene	50.0	53.8		ug/L		108	78 - 123

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-836681/4
Matrix: Water
Analysis Batch: 836681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,2-Dichloroethene	50.0	56.8		ug/L		114	75 - 124
1,2-Dichloroethene, Total	100	111		ug/L		111	79 - 121
1,1-Dichloroethene	50.0	56.8		ug/L		114	71 - 131
1,2-Dichloropropane	50.0	53.6		ug/L		107	78 - 122
1,3-Dichloropropane	50.0	53.5		ug/L		107	80 - 119
2,2-Dichloropropane	50.0	58.3		ug/L		117	60 - 139
1,1-Dichloropropene	50.0	55.0		ug/L		110	79 - 125
cis-1,3-Dichloropropene	50.0	54.5		ug/L		109	75 - 124
trans-1,3-Dichloropropene	50.0	54.4		ug/L		109	73 - 127
Ethylbenzene	50.0	54.3		ug/L		109	79 - 121
Hexachlorobutadiene	50.0	56.9		ug/L		114	66 - 134
2-Hexanone	250	284		ug/L		114	57 - 139
Isopropylbenzene	50.0	54.2		ug/L		108	72 - 131
4-Isopropyltoluene	50.0	55.9		ug/L		112	77 - 127
Methylene Chloride	50.0	53.4		ug/L		107	74 - 124
4-Methyl-2-pentanone (MIBK)	250	284		ug/L		114	67 - 130
Methyl tert-butyl ether	50.0	58.1		ug/L		116	71 - 124
Naphthalene	50.0	54.1		ug/L		108	61 - 128
N-Propylbenzene	50.0	53.6		ug/L		107	76 - 126
Styrene	50.0	51.1		ug/L		102	78 - 123
1,1,1,2-Tetrachloroethane	50.0	55.8		ug/L		112	78 - 124
1,1,2,2-Tetrachloroethane	50.0	56.1		ug/L		112	71 - 121
Tetrachloroethene	50.0	52.7		ug/L		105	74 - 129
Toluene	50.0	55.4		ug/L		111	80 - 121
1,2,3-Trichlorobenzene	50.0	57.5		ug/L		115	69 - 129
1,2,4-Trichlorobenzene	50.0	56.2		ug/L		112	69 - 130
1,1,1-Trichloroethane	50.0	54.4		ug/L		109	74 - 131
1,1,2-Trichloroethane	50.0	53.2		ug/L		106	80 - 119
Trichloroethene	50.0	50.3		ug/L		101	79 - 123
Trichlorofluoromethane	50.0	51.2		ug/L		102	65 - 141
1,2,3-Trichloropropane	50.0	52.8		ug/L		106	73 - 122
1,2,4-Trimethylbenzene	50.0	53.4		ug/L		107	76 - 124
1,3,5-Trimethylbenzene	50.0	52.8		ug/L		106	75 - 124
Vinyl acetate	100	228	J1 Q	ug/L		228	54 - 146
Vinyl chloride	50.0	48.3		ug/L		97	58 - 137
o-Xylene	50.0	50.9		ug/L		102	78 - 122
m-Xylene & p-Xylene	50.0	53.2		ug/L		106	80 - 121
Xylenes, Total	100	104		ug/L		104	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*106*		*81 - 118*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*
Dibromofluoromethane (Surr)	*108*		*80 - 119*

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-836681/5
Matrix: Water
Analysis Batch: 836681

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
Acetone			250	241		ug/L		96	39 - 160	5	20
Benzene			50.0	54.1		ug/L		108	79 - 120	0	20
Bromobenzene			50.0	51.7		ug/L		103	80 - 120	0	20
Chlorobromomethane			50.0	52.1		ug/L		104	78 - 123	2	20
Dichlorobromomethane			50.0	52.6		ug/L		105	79 - 125	3	20
Bromoform			50.0	48.8		ug/L		98	66 - 130	1	20
Bromomethane			50.0	42.3		ug/L		85	53 - 141	1	20
2-Butanone (MEK)			250	258		ug/L		103	56 - 143	7	20
n-Butylbenzene			50.0	63.3		ug/L		127	75 - 128	11	20
sec-Butylbenzene			50.0	61.7		ug/L		123	77 - 126	13	20
tert-Butylbenzene			50.0	59.1		ug/L		118	78 - 124	9	20
Carbon disulfide			50.0	64.3		ug/L		129	64 - 133	9	20
Carbon tetrachloride			50.0	66.3		ug/L		133	72 - 136	13	20
Chlorobenzene			50.0	51.6		ug/L		103	82 - 118	1	20
Chloroethane			50.0	52.9		ug/L		106	60 - 138	4	20
Chloroform			50.0	52.7		ug/L		105	79 - 124	1	20
Chloromethane			50.0	44.0		ug/L		88	50 - 139	2	20
2-Chlorotoluene			50.0	55.5		ug/L		111	79 - 122	4	20
4-Chlorotoluene			50.0	54.1		ug/L		108	78 - 122	2	20
Chlorodibromomethane			50.0	47.9		ug/L		96	74 - 126	4	20
1,2-Dibromo-3-Chloropropane			50.0	52.3		ug/L		105	62 - 128	1	20
Ethylene Dibromide			50.0	50.1		ug/L		100	75 - 127	6	20
Dibromomethane			50.0	49.9		ug/L		100	79 - 123	5	20
1,2-Dichlorobenzene			50.0	55.1		ug/L		110	80 - 119	1	20
1,3-Dichlorobenzene			50.0	54.9		ug/L		110	80 - 119	1	20
1,4-Dichlorobenzene			50.0	54.4		ug/L		109	79 - 118	0	20
Dichlorodifluoromethane			50.0	56.7	Q	ug/L		113	32 - 152	25	20
1,1-Dichloroethane			50.0	53.9		ug/L		108	77 - 125	1	20
1,2-Dichloroethane			50.0	51.4		ug/L		103	73 - 128	4	20
cis-1,2-Dichloroethene			50.0	53.2		ug/L		106	78 - 123	1	20
trans-1,2-Dichloroethene			50.0	58.9		ug/L		118	75 - 124	4	20
1,2-Dichloroethene, Total			100	112		ug/L		112	79 - 121	1	20
1,1-Dichloroethene			50.0	63.7		ug/L		127	71 - 131	11	20
1,2-Dichloropropane			50.0	52.2		ug/L		104	78 - 122	3	20
1,3-Dichloropropane			50.0	50.5		ug/L		101	80 - 119	6	20
2,2-Dichloropropane			50.0	61.0		ug/L		122	60 - 139	4	20
1,1-Dichloropropene			50.0	60.5		ug/L		121	79 - 125	9	20
cis-1,3-Dichloropropene			50.0	52.0		ug/L		104	75 - 124	5	20
trans-1,3-Dichloropropene			50.0	51.2		ug/L		102	73 - 127	6	20
Ethylbenzene			50.0	57.5		ug/L		115	79 - 121	6	20
Hexachlorobutadiene			50.0	65.4		ug/L		131	66 - 134	14	20
2-Hexanone			250	258		ug/L		103	57 - 139	10	20
Isopropylbenzene			50.0	58.8		ug/L		118	72 - 131	8	20
4-Isopropyltoluene			50.0	60.6		ug/L		121	77 - 127	8	20
Methylene Chloride			50.0	52.3		ug/L		105	74 - 124	2	20
4-Methyl-2-pentanone (MIBK)			250	260		ug/L		104	67 - 130	9	20
Methyl tert-butyl ether			50.0	54.3		ug/L		109	71 - 124	7	20
Naphthalene			50.0	54.5		ug/L		109	61 - 128	1	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-836681/5
Matrix: Water
Analysis Batch: 836681

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
N-Propylbenzene	50.0	59.6		ug/L		119	76 - 126	11	20
Styrene	50.0	51.5		ug/L		103	78 - 123	1	20
1,1,1,2-Tetrachloroethane	50.0	55.6		ug/L		111	78 - 124	0	20
1,1,2,2-Tetrachloroethane	50.0	55.1		ug/L		110	71 - 121	2	20
Tetrachloroethene	50.0	58.0		ug/L		116	74 - 129	10	20
Toluene	50.0	55.1		ug/L		110	80 - 121	0	20
1,2,3-Trichlorobenzene	50.0	59.2		ug/L		118	69 - 129	3	20
1,2,4-Trichlorobenzene	50.0	57.6		ug/L		115	69 - 130	3	20
1,1,1-Trichloroethane	50.0	58.7		ug/L		117	74 - 131	8	20
1,1,2-Trichloroethane	50.0	50.6		ug/L		101	80 - 119	5	20
Trichloroethene	50.0	51.9		ug/L		104	79 - 123	3	20
Trichlorofluoromethane	50.0	62.7		ug/L		125	65 - 141	20	20
1,2,3-Trichloropropane	50.0	51.2		ug/L		102	73 - 122	3	20
1,2,4-Trimethylbenzene	50.0	56.0		ug/L		112	76 - 124	5	20
1,3,5-Trimethylbenzene	50.0	56.5		ug/L		113	75 - 124	7	20
Vinyl acetate	100	192	Q	ug/L		192	54 - 146	17	20
Vinyl chloride	50.0	54.4		ug/L		109	58 - 137	12	20
o-Xylene	50.0	52.6		ug/L		105	78 - 122	3	20
m-Xylene & p-Xylene	50.0	56.2		ug/L		112	80 - 121	5	20
Xylenes, Total	100	109		ug/L		109	79 - 121	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*
4-Bromofluorobenzene (Surr)	*102*		*85 - 114*
Dibromofluoromethane (Surr)	*106*		*80 - 119*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-836209/8
Matrix: Water
Analysis Batch: 836209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	0.76	U	1.1	0.76	0.30	ug/L		05/03/24 13:11	1
Ethylene	0.71	U	1.0	0.71	0.31	ug/L		05/03/24 13:11	1
Methane	1.2	U	1.2	1.2	0.57	ug/L		05/03/24 13:11	1

Lab Sample ID: LCS 680-836209/3
Matrix: Water
Analysis Batch: 836209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane (TCD)	3080	2770		ug/L		90	73 - 125

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 680-836209/6
Matrix: Water
Analysis Batch: 836209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane			433	510		ug/L		118	74 - 131		
Ethylene			404	440		ug/L		109	72 - 133		
Methane			231	247		ug/L		107	73 - 125		

Lab Sample ID: LCSD 680-836209/4
Matrix: Water
Analysis Batch: 836209

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
Methane (TCD)			3080	2800		ug/L		91	73 - 125	1	30

Lab Sample ID: LCSD 680-836209/7
Matrix: Water
Analysis Batch: 836209

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
Ethane			433	519		ug/L		120	74 - 131	2	30
Ethylene			404	453		ug/L		112	72 - 133	3	30
Methane			231	250		ug/L		108	73 - 125	1	30

Lab Sample ID: 680-249958-4 MS
Matrix: Water
Analysis Batch: 836209

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane	4.7		433	527		ug/L		121	74 - 131		
Ethylene	2.4		404	452		ug/L		111	72 - 133		
Methane (TCD)	11000	J1	231	11000	4	ug/L		-74	73 - 125		

Lab Sample ID: 680-249958-4 MSD
Matrix: Water
Analysis Batch: 836209

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane	4.7		433	409		ug/L		93	74 - 131	25	30
Ethylene	2.4		404	362		ug/L		89	72 - 133	22	30
Methane (TCD)	11000	J1	231	9840	4	ug/L		-585	73 - 125	11	30

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-837022/1064
Matrix: Water
Analysis Batch: 837022

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U M	1.5	1.0	0.40	mg/L		05/08/24 12:28	1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-837022/65
Matrix: Water
Analysis Batch: 837022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			10.0	9.78		mg/L		98	87 - 112		

Lab Sample ID: LCSD 680-837022/66
Matrix: Water
Analysis Batch: 837022

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
Sulfate			10.0	9.69		mg/L		97	87 - 112	1	15

Lab Sample ID: 680-249958-4 MS
Matrix: Water
Analysis Batch: 837022

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	0.44	J	10.0	9.30		mg/L		89	87 - 112		

Lab Sample ID: 680-249958-4 MSD
Matrix: Water
Analysis Batch: 837022

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	0.44	J	10.0	9.39		mg/L		89	87 - 112	1	15

Lab Sample ID: MB 680-837232/2
Matrix: Water
Analysis Batch: 837232

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U M	1.5	1.0	0.40	mg/L		05/09/24 11:46	1

Lab Sample ID: LCS 680-837232/3
Matrix: Water
Analysis Batch: 837232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			10.0	9.63		mg/L		96	87 - 112		

Lab Sample ID: LCSD 680-837232/4
Matrix: Water
Analysis Batch: 837232

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
Sulfate			10.0	9.58		mg/L		96	87 - 112	0	15

Lab Sample ID: 680-249958-1 MS
Matrix: Water
Analysis Batch: 837232

Client Sample ID: AOC50-DUP01-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	1.0	U	10.0	9.00		mg/L		90	87 - 112		

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: 680-249958-1 MSD
Matrix: Water
Analysis Batch: 837232

Client Sample ID: AOC50-DUP01-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	1.0	U	10.0	9.07		mg/L		91	87 - 112	1	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-835232/1-A
Matrix: Water
Analysis Batch: 835493

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 835232

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		04/29/24 21:21	1
Aluminum	150	U	200	150	54	ug/L		04/29/24 21:21	1
Manganese	5.0	U	10	5.0	1.3	ug/L		04/29/24 21:21	1

Lab Sample ID: LCS 680-835232/2-A
Matrix: Water
Analysis Batch: 835493

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 835232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	4990	5210		ug/L		104	87 - 115
Aluminum	5050	5310		ug/L		105	86 - 115
Manganese	400	411		ug/L		103	90 - 114

Lab Sample ID: 680-249958-4 MS
Matrix: Water
Analysis Batch: 835493

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Dissolved
Prep Batch: 835232

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	150	U	5050	5540		ug/L		110	86 - 115
Iron	41000	J1	4990	44200	4	ug/L		70	87 - 115
Manganese	440		400	837		ug/L		100	90 - 114

Lab Sample ID: 680-249958-4 MSD
Matrix: Water
Analysis Batch: 835493

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Dissolved
Prep Batch: 835232

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	150	U	5050	5580		ug/L		111	86 - 115	1	20
Iron	41000	J1	4990	44800	4	ug/L		83	87 - 115	1	20
Manganese	440		400	852		ug/L		104	90 - 114	2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-835233/1-A
Matrix: Water
Analysis Batch: 835685

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 835233

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		04/30/24 16:17	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-835233/2-A
Matrix: Water
Analysis Batch: 835685

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 835233

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			100	98.3		ug/L		98	84 - 116		

Lab Sample ID: 680-249958-4 MS
Matrix: Water
Analysis Batch: 835685

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Dissolved
Prep Batch: 835233

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	280	J1	100	383		ug/L		105	84 - 116		

Lab Sample ID: 680-249958-4 MSD
Matrix: Water
Analysis Batch: 835685

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Dissolved
Prep Batch: 835233

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	280	J1	100	396	J1	ug/L		119	84 - 116	3	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-835500/4
Matrix: Water
Analysis Batch: 835500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	5.0	U	5.5	5.0	2.2	mg/L		04/29/24 23:07	1

Lab Sample ID: LCS 680-835500/6
Matrix: Water
Analysis Batch: 835500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			250	244		mg/L		98	90 - 112		

Lab Sample ID: LCSD 680-835500/31
Matrix: Water
Analysis Batch: 835500

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
Total Alkalinity as CaCO3 to pH 4.5			250	249		mg/L		100	90 - 112	2	30

Method: 353.2-1993 R2.0 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-835695/14
Matrix: Water
Analysis Batch: 835695

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.025	U	0.10	0.025	0.010	mg/L		04/30/24 12:57	1

Method: 353.2-1993 R2.0 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 680-835695/15
Matrix: Water
Analysis Batch: 835695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N			1.00	1.09		mg/L		109	90 - 110		

Lab Sample ID: 680-249958-4 MS
Matrix: Water
Analysis Batch: 835695

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N	0.097	J1	1.00	1.47	J1	mg/L		137	90 - 110		

Lab Sample ID: 680-249958-4 MSD
Matrix: Water
Analysis Batch: 835695

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.097	J1	1.00	1.32	J1	mg/L		122	90 - 110	11	10

Lab Sample ID: 680-249958-5 MS
Matrix: Water
Analysis Batch: 835695

Client Sample ID: G6M-07-02X-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N	0.069	J1	1.00	1.23	J1	mg/L		116	90 - 110		

Lab Sample ID: 680-249958-5 MSD
Matrix: Water
Analysis Batch: 835695

Client Sample ID: G6M-07-02X-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.069	J1	1.00	1.24	J1	mg/L		117	90 - 110	0	10

Lab Sample ID: MB 680-836620/42
Matrix: Water
Analysis Batch: 836620

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.025	U	0.10	0.025	0.010	mg/L		05/06/24 13:42	1

Lab Sample ID: MB 680-836620/81
Matrix: Water
Analysis Batch: 836620

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.025	U	0.10	0.025	0.010	mg/L		05/06/24 16:57	1

Lab Sample ID: LCS 680-836620/43
Matrix: Water
Analysis Batch: 836620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N			1.00	0.948		mg/L		95	90 - 110		

Method: 353.2-1993 R2.0 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: LCS 680-836620/82
Matrix: Water
Analysis Batch: 836620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	1.02		mg/L		102	90 - 110

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 680-835595/1
Matrix: Water
Analysis Batch: 835595

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide	2.0	U	2.5	2.0	1.0	mg/L		04/30/24 15:01	1

Lab Sample ID: LCS 680-835595/2
Matrix: Water
Analysis Batch: 835595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	9.37		mg/L		94	75 - 125

Lab Sample ID: LCSD 680-835595/3
Matrix: Water
Analysis Batch: 835595

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
Sulfide	10.0	10.2		mg/L		102	75 - 125	8	30

Lab Sample ID: 680-249958-4 MS
Matrix: Water
Analysis Batch: 835595

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.85	J H	6.94	7.63	H	mg/L		98	75 - 125

Lab Sample ID: 680-249958-4 MSD
Matrix: Water
Analysis Batch: 835595

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.85	J H	6.94	7.89	H	mg/L		101	75 - 125	3	30

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-835908/3
Matrix: Water
Analysis Batch: 835908

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	1.0	0.50	mg/L		04/30/24 14:22	1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 680-835908/4
Matrix: Water
Analysis Batch: 835908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	20.0	21.1		mg/L		106	80 - 120

Lab Sample ID: LCSD 680-835908/5
Matrix: Water
Analysis Batch: 835908

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
Total Organic Carbon	20.0	21.2		mg/L		106	80 - 120	0	25

Lab Sample ID: 680-249958-4 MS
Matrix: Water
Analysis Batch: 835908

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	7.1		25.0	28.2		mg/L		85	80 - 120

Lab Sample ID: 680-249958-4 MSD
Matrix: Water
Analysis Batch: 835908

Client Sample ID: G6M-04-10A-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	7.1		25.0	28.2		mg/L		85	80 - 120	0	25

Lab Sample ID: MB 680-835910/1
Matrix: Water
Analysis Batch: 835910

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	1.0	0.50	mg/L		05/01/24 01:09	1

Lab Sample ID: LCS 680-835910/2
Matrix: Water
Analysis Batch: 835910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	20.0	20.9		mg/L		105	80 - 120

Lab Sample ID: LCSD 680-835910/3
Matrix: Water
Analysis Batch: 835910

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
Total Organic Carbon	20.0	21.0		mg/L		105	80 - 120	1	25

Lab Sample ID: 680-249958-6 DU
Matrix: Water
Analysis Batch: 835910

Client Sample ID: G6M-13-01X-SPR24-LTM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	1.1		1.08		mg/L		5	25

GC/MS VOA

Analysis Batch: 836163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-1	AOC50-DUP01-SPR24-LTM	Total/NA	Water	8260D	
680-249958-2	G6M-04-02X-SPR24-LTM	Total/NA	Water	8260D	
MB 680-836163/8	Method Blank	Total/NA	Water	8260D	
LCS 680-836163/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-836163/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 836369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-6	G6M-13-01X-SPR24-LTM	Total/NA	Water	8260D	
680-249958-9	G6M-97-05B-SPR24-LTM	Total/NA	Water	8260D	
680-249958-12	AOC50-TB-SPR24-LTM	Total/NA	Water	8260D	
MB 680-836369/8	Method Blank	Total/NA	Water	8260D	
LCS 680-836369/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-836369/5	Lab Control Sample Dup	Total/NA	Water	8260D	
680-249958-4 MS	G6M-04-10A-SPR24-LTM	Total/NA	Water	8260D	
680-249958-4 MSD	G6M-04-10A-SPR24-LTM	Total/NA	Water	8260D	

Analysis Batch: 836473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-3	G6M-04-07X-SPR24-LTM	Total/NA	Water	8260D	
680-249958-4	G6M-04-10A-SPR24-LTM	Total/NA	Water	8260D	
680-249958-5	G6M-07-02X-SPR24-LTM	Total/NA	Water	8260D	
680-249958-8	G6M-13-05X-SPR24-LTM	Total/NA	Water	8260D	
680-249958-10	XSA-12-96X-SPR24-LTM	Total/NA	Water	8260D	
MB 680-836473/8	Method Blank	Total/NA	Water	8260D	
LCS 680-836473/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-836473/9	Lab Control Sample Dup	Total/NA	Water	8260D	
680-249958-4 MS	G6M-04-10A-SPR24-LTM	Total/NA	Water	8260D	
680-249958-4 MSD	G6M-04-10A-SPR24-LTM	Total/NA	Water	8260D	

Analysis Batch: 836681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-2	G6M-04-02X-SPR24-LTM	Total/NA	Water	8260D	
680-249958-7	G6M-13-02X-SPR24-LTM	Total/NA	Water	8260D	
680-249958-11	AOC50-RB01-SPR24-LTM	Total/NA	Water	8260D	
MB 680-836681/9	Method Blank	Total/NA	Water	8260D	
LCS 680-836681/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-836681/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC VOA

Analysis Batch: 836209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-1	AOC50-DUP01-SPR24-LTM	Total/NA	Water	RSK-175	
680-249958-2	G6M-04-02X-SPR24-LTM	Total/NA	Water	RSK-175	
680-249958-3	G6M-04-07X-SPR24-LTM	Total/NA	Water	RSK-175	
680-249958-4	G6M-04-10A-SPR24-LTM	Total/NA	Water	RSK-175	
680-249958-5	G6M-07-02X-SPR24-LTM	Total/NA	Water	RSK-175	
680-249958-6	G6M-13-01X-SPR24-LTM	Total/NA	Water	RSK-175	
680-249958-7	G6M-13-02X-SPR24-LTM	Total/NA	Water	RSK-175	
680-249958-8	G6M-13-05X-SPR24-LTM	Total/NA	Water	RSK-175	

GC VOA (Continued)

Analysis Batch: 836209 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-9	G6M-97-05B-SPR24-LTM	Total/NA	Water	RSK-175	
MB 680-836209/8	Method Blank	Total/NA	Water	RSK-175	
LCS 680-836209/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-836209/6	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-836209/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-836209/7	Lab Control Sample Dup	Total/NA	Water	RSK-175	
680-249958-4 MS	G6M-04-10A-SPR24-LTM	Total/NA	Water	RSK-175	
680-249958-4 MSD	G6M-04-10A-SPR24-LTM	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 837022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-4	G6M-04-10A-SPR24-LTM	Total/NA	Water	9056A	
680-249958-5	G6M-07-02X-SPR24-LTM	Total/NA	Water	9056A	
680-249958-6	G6M-13-01X-SPR24-LTM	Total/NA	Water	9056A	
680-249958-7	G6M-13-02X-SPR24-LTM	Total/NA	Water	9056A	
680-249958-8	G6M-13-05X-SPR24-LTM	Total/NA	Water	9056A	
680-249958-9	G6M-97-05B-SPR24-LTM	Total/NA	Water	9056A	
MB 680-837022/1064	Method Blank	Total/NA	Water	9056A	
LCS 680-837022/65	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-837022/66	Lab Control Sample Dup	Total/NA	Water	9056A	
680-249958-4 MS	G6M-04-10A-SPR24-LTM	Total/NA	Water	9056A	
680-249958-4 MSD	G6M-04-10A-SPR24-LTM	Total/NA	Water	9056A	

Analysis Batch: 837232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-1	AOC50-DUP01-SPR24-LTM	Total/NA	Water	9056A	
680-249958-2	G6M-04-02X-SPR24-LTM	Total/NA	Water	9056A	
680-249958-3	G6M-04-07X-SPR24-LTM	Total/NA	Water	9056A	
MB 680-837232/2	Method Blank	Total/NA	Water	9056A	
LCS 680-837232/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-837232/4	Lab Control Sample Dup	Total/NA	Water	9056A	
680-249958-1 MS	AOC50-DUP01-SPR24-LTM	Total/NA	Water	9056A	
680-249958-1 MSD	AOC50-DUP01-SPR24-LTM	Total/NA	Water	9056A	

Metals

Prep Batch: 835232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-1	AOC50-DUP01-SPR24-LTM	Dissolved	Water	3005A	
680-249958-2	G6M-04-02X-SPR24-LTM	Dissolved	Water	3005A	
680-249958-3	G6M-04-07X-SPR24-LTM	Dissolved	Water	3005A	
680-249958-4	G6M-04-10A-SPR24-LTM	Dissolved	Water	3005A	
680-249958-5	G6M-07-02X-SPR24-LTM	Dissolved	Water	3005A	
680-249958-6	G6M-13-01X-SPR24-LTM	Dissolved	Water	3005A	
680-249958-7	G6M-13-02X-SPR24-LTM	Dissolved	Water	3005A	
680-249958-8	G6M-13-05X-SPR24-LTM	Dissolved	Water	3005A	
680-249958-9	G6M-97-05B-SPR24-LTM	Dissolved	Water	3005A	
680-249958-10	XSA-12-96X-SPR24-LTM	Dissolved	Water	3005A	
680-249958-11	AOC50-RB01-SPR24-LTM	Dissolved	Water	3005A	
MB 680-835232/1-A	Method Blank	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 835232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-835232/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-249958-4 MS	G6M-04-10A-SPR24-LTM	Dissolved	Water	3005A	
680-249958-4 MSD	G6M-04-10A-SPR24-LTM	Dissolved	Water	3005A	

Prep Batch: 835233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-1	AOC50-DUP01-SPR24-LTM	Dissolved	Water	3005A	
680-249958-2	G6M-04-02X-SPR24-LTM	Dissolved	Water	3005A	
680-249958-3	G6M-04-07X-SPR24-LTM	Dissolved	Water	3005A	
680-249958-4	G6M-04-10A-SPR24-LTM	Dissolved	Water	3005A	
680-249958-5	G6M-07-02X-SPR24-LTM	Dissolved	Water	3005A	
680-249958-6	G6M-13-01X-SPR24-LTM	Dissolved	Water	3005A	
680-249958-7	G6M-13-02X-SPR24-LTM	Dissolved	Water	3005A	
680-249958-8	G6M-13-05X-SPR24-LTM	Dissolved	Water	3005A	
680-249958-9	G6M-97-05B-SPR24-LTM	Dissolved	Water	3005A	
680-249958-10	XSA-12-96X-SPR24-LTM	Dissolved	Water	3005A	
680-249958-11	AOC50-RB01-SPR24-LTM	Dissolved	Water	3005A	
MB 680-835233/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-835233/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-249958-4 MS	G6M-04-10A-SPR24-LTM	Dissolved	Water	3005A	
680-249958-4 MSD	G6M-04-10A-SPR24-LTM	Dissolved	Water	3005A	

Analysis Batch: 835493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-1	AOC50-DUP01-SPR24-LTM	Dissolved	Water	6010C	835232
680-249958-2	G6M-04-02X-SPR24-LTM	Dissolved	Water	6010C	835232
680-249958-3	G6M-04-07X-SPR24-LTM	Dissolved	Water	6010C	835232
680-249958-4	G6M-04-10A-SPR24-LTM	Dissolved	Water	6010C	835232
680-249958-5	G6M-07-02X-SPR24-LTM	Dissolved	Water	6010C	835232
680-249958-6	G6M-13-01X-SPR24-LTM	Dissolved	Water	6010C	835232
680-249958-7	G6M-13-02X-SPR24-LTM	Dissolved	Water	6010C	835232
680-249958-8	G6M-13-05X-SPR24-LTM	Dissolved	Water	6010C	835232
680-249958-9	G6M-97-05B-SPR24-LTM	Dissolved	Water	6010C	835232
680-249958-10	XSA-12-96X-SPR24-LTM	Dissolved	Water	6010C	835232
680-249958-11	AOC50-RB01-SPR24-LTM	Dissolved	Water	6010C	835232
MB 680-835232/1-A	Method Blank	Total Recoverable	Water	6010C	835232
LCS 680-835232/2-A	Lab Control Sample	Total Recoverable	Water	6010C	835232
680-249958-4 MS	G6M-04-10A-SPR24-LTM	Dissolved	Water	6010C	835232
680-249958-4 MSD	G6M-04-10A-SPR24-LTM	Dissolved	Water	6010C	835232

Analysis Batch: 835685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-1	AOC50-DUP01-SPR24-LTM	Dissolved	Water	6020A	835233
680-249958-2	G6M-04-02X-SPR24-LTM	Dissolved	Water	6020A	835233
680-249958-3	G6M-04-07X-SPR24-LTM	Dissolved	Water	6020A	835233
680-249958-4	G6M-04-10A-SPR24-LTM	Dissolved	Water	6020A	835233
680-249958-5	G6M-07-02X-SPR24-LTM	Dissolved	Water	6020A	835233
680-249958-6	G6M-13-01X-SPR24-LTM	Dissolved	Water	6020A	835233
680-249958-7	G6M-13-02X-SPR24-LTM	Dissolved	Water	6020A	835233
680-249958-8	G6M-13-05X-SPR24-LTM	Dissolved	Water	6020A	835233
680-249958-9	G6M-97-05B-SPR24-LTM	Dissolved	Water	6020A	835233

Metals (Continued)

Analysis Batch: 835685 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-10	XSA-12-96X-SPR24-LTM	Dissolved	Water	6020A	835233
680-249958-11	AOC50-RB01-SPR24-LTM	Dissolved	Water	6020A	835233
MB 680-835233/1-A	Method Blank	Total Recoverable	Water	6020A	835233
LCS 680-835233/2-A	Lab Control Sample	Total Recoverable	Water	6020A	835233
680-249958-4 MS	G6M-04-10A-SPR24-LTM	Dissolved	Water	6020A	835233
680-249958-4 MSD	G6M-04-10A-SPR24-LTM	Dissolved	Water	6020A	835233

General Chemistry

Analysis Batch: 835500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-1	AOC50-DUP01-SPR24-LTM	Total/NA	Water	2320B-2011	
680-249958-2	G6M-04-02X-SPR24-LTM	Total/NA	Water	2320B-2011	
680-249958-4	G6M-04-10A-SPR24-LTM	Total/NA	Water	2320B-2011	
680-249958-5	G6M-07-02X-SPR24-LTM	Total/NA	Water	2320B-2011	
680-249958-6	G6M-13-01X-SPR24-LTM	Total/NA	Water	2320B-2011	
680-249958-7	G6M-13-02X-SPR24-LTM	Total/NA	Water	2320B-2011	
680-249958-8	G6M-13-05X-SPR24-LTM	Total/NA	Water	2320B-2011	
680-249958-9	G6M-97-05B-SPR24-LTM	Total/NA	Water	2320B-2011	
MB 680-835500/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-835500/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-835500/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 835595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-1	AOC50-DUP01-SPR24-LTM	Total/NA	Water	9034	
680-249958-2	G6M-04-02X-SPR24-LTM	Total/NA	Water	9034	
680-249958-4	G6M-04-10A-SPR24-LTM	Total/NA	Water	9034	
680-249958-5	G6M-07-02X-SPR24-LTM	Total/NA	Water	9034	
680-249958-6	G6M-13-01X-SPR24-LTM	Total/NA	Water	9034	
680-249958-7	G6M-13-02X-SPR24-LTM	Total/NA	Water	9034	
680-249958-8	G6M-13-05X-SPR24-LTM	Total/NA	Water	9034	
680-249958-9	G6M-97-05B-SPR24-LTM	Total/NA	Water	9034	
MB 680-835595/1	Method Blank	Total/NA	Water	9034	
LCS 680-835595/2	Lab Control Sample	Total/NA	Water	9034	
LCSD 680-835595/3	Lab Control Sample Dup	Total/NA	Water	9034	
680-249958-4 MS	G6M-04-10A-SPR24-LTM	Total/NA	Water	9034	
680-249958-4 MSD	G6M-04-10A-SPR24-LTM	Total/NA	Water	9034	

Analysis Batch: 835695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-2	G6M-04-02X-SPR24-LTM	Total/NA	Water	353.2-1993 R2.0	
680-249958-4	G6M-04-10A-SPR24-LTM	Total/NA	Water	353.2-1993 R2.0	
680-249958-5	G6M-07-02X-SPR24-LTM	Total/NA	Water	353.2-1993 R2.0	
680-249958-6	G6M-13-01X-SPR24-LTM	Total/NA	Water	353.2-1993 R2.0	
680-249958-7	G6M-13-02X-SPR24-LTM	Total/NA	Water	353.2-1993 R2.0	
680-249958-8	G6M-13-05X-SPR24-LTM	Total/NA	Water	353.2-1993 R2.0	
680-249958-9	G6M-97-05B-SPR24-LTM	Total/NA	Water	353.2-1993 R2.0	
MB 680-835695/14	Method Blank	Total/NA	Water	353.2-1993 R2.0	
LCS 680-835695/15	Lab Control Sample	Total/NA	Water	353.2-1993 R2.0	
680-249958-4 MS	G6M-04-10A-SPR24-LTM	Total/NA	Water	353.2-1993 R2.0	

General Chemistry (Continued)

Analysis Batch: 835695 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-4 MSD	G6M-04-10A-SPR24-LTM	Total/NA	Water	353.2-1993 R2.0	
680-249958-5 MS	G6M-07-02X-SPR24-LTM	Total/NA	Water	353.2-1993 R2.0	
680-249958-5 MSD	G6M-07-02X-SPR24-LTM	Total/NA	Water	353.2-1993 R2.0	

Analysis Batch: 835908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-1	AOC50-DUP01-SPR24-LTM	Total/NA	Water	9060A	
680-249958-2	G6M-04-02X-SPR24-LTM	Total/NA	Water	9060A	
680-249958-3	G6M-04-07X-SPR24-LTM	Total/NA	Water	9060A	
680-249958-4	G6M-04-10A-SPR24-LTM	Total/NA	Water	9060A	
680-249958-5	G6M-07-02X-SPR24-LTM	Total/NA	Water	9060A	
MB 680-835908/3	Method Blank	Total/NA	Water	9060A	
LCS 680-835908/4	Lab Control Sample	Total/NA	Water	9060A	
LCSD 680-835908/5	Lab Control Sample Dup	Total/NA	Water	9060A	
680-249958-4 MS	G6M-04-10A-SPR24-LTM	Total/NA	Water	9060A	
680-249958-4 MSD	G6M-04-10A-SPR24-LTM	Total/NA	Water	9060A	

Analysis Batch: 835910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-6	G6M-13-01X-SPR24-LTM	Total/NA	Water	9060A	
680-249958-7	G6M-13-02X-SPR24-LTM	Total/NA	Water	9060A	
680-249958-8	G6M-13-05X-SPR24-LTM	Total/NA	Water	9060A	
680-249958-9	G6M-97-05B-SPR24-LTM	Total/NA	Water	9060A	
MB 680-835910/1	Method Blank	Total/NA	Water	9060A	
LCS 680-835910/2	Lab Control Sample	Total/NA	Water	9060A	
LCSD 680-835910/3	Lab Control Sample Dup	Total/NA	Water	9060A	
680-249958-6 DU	G6M-13-01X-SPR24-LTM	Total/NA	Water	9060A	

Analysis Batch: 836620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-249958-1	AOC50-DUP01-SPR24-LTM	Total/NA	Water	353.2-1993 R2.0	
MB 680-836620/42	Method Blank	Total/NA	Water	353.2-1993 R2.0	
MB 680-836620/81	Method Blank	Total/NA	Water	353.2-1993 R2.0	
LCS 680-836620/43	Lab Control Sample	Total/NA	Water	353.2-1993 R2.0	
LCS 680-836620/82	Lab Control Sample	Total/NA	Water	353.2-1993 R2.0	

Client Sample ID: AOC50-DUP01-SPR24-LTM
Lab Sample ID: 680-249958-1

Date Collected: 04/22/24 10:55
Matrix: Water
Date Received: 04/26/24 10:25

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	836163	05/03/24 20:24	Y1S	EET SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	836209	05/03/24 18:44	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		1	2 mL	2 mL	837232	05/09/24 12:13	T1C	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	835232	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6010C		1			835493	04/29/24 21:53	BCB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	835233	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6020A		1			835685	04/30/24 16:54	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Analysis	2320B-2011		1			835500	04/30/24 00:10	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	836620	05/06/24 13:49	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	300 mL	300 mL	835595	04/30/24 15:01	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	835908	04/30/24 23:18	NVF	EET SAV
	Instrument ID: TOC7									

Client Sample ID: G6M-04-02X-SPR24-LTM
Lab Sample ID: 680-249958-2

Date Collected: 04/23/24 10:20
Matrix: Water
Date Received: 04/26/24 10:25

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	836163	05/03/24 20:46	Y1S	EET SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	8260D		1	5 mL	5 mL	836681	05/07/24 18:26	P1C	EET SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	836209	05/03/24 18:56	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		10	2 mL	2 mL	837232	05/09/24 12:32	T1C	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	835232	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6010C		1			835493	04/29/24 21:41	BCB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	835233	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6020A		1			835685	04/30/24 16:40	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Analysis	2320B-2011		1			835500	04/30/24 03:11	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	835695	04/30/24 14:39	NVF	EET SAV
	Instrument ID: SEAL 1									

Client Sample ID: G6M-04-02X-SPR24-LTM
Lab Sample ID: 680-249958-2

Date Collected: 04/23/24 10:20
Matrix: Water
Date Received: 04/26/24 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9034		1	280 mL	280 mL	835595	04/30/24 15:01	JAS	EET SAV
Total/NA	Analysis	9060A		1	40 mL	40 mL	835908	04/30/24 23:42	NVF	EET SAV
	Instrument ID: TOC7									

Client Sample ID: G6M-04-07X-SPR24-LTM
Lab Sample ID: 680-249958-3

Date Collected: 04/22/24 11:55
Matrix: Water
Date Received: 04/26/24 10:25

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	836473	05/06/24 16:45	P1C	EET SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	836209	05/03/24 19:09	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		2	2 mL	2 mL	837232	05/09/24 12:39	T1C	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	835232	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6010C		1			835493	04/29/24 22:05	BCB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	835233	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6020A		1			835685	04/30/24 17:08	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Analysis	9060A		1	40 mL	40 mL	835908	05/01/24 00:05	NVF	EET SAV
	Instrument ID: TOC7									

Client Sample ID: G6M-04-10A-SPR24-LTM
Lab Sample ID: 680-249958-4

Date Collected: 04/22/24 13:15
Matrix: Water
Date Received: 04/26/24 10:25

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	836473	05/06/24 20:45	P1C	EET SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	836209	05/03/24 19:22	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		1	2 mL	2 mL	837022	05/08/24 14:26	UI	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	835232	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6010C		1			835493	04/29/24 21:26	BCB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	835233	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6020A		1			835685	04/30/24 16:23	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Analysis	2320B-2011		1			835500	04/30/24 00:19	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	835695	04/30/24 13:07	NVF	EET SAV
	Instrument ID: SEAL 1									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-249958-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Client Sample ID: G6M-04-10A-SPR24-LTM
Lab Sample ID: 680-249958-4
Date Collected: 04/22/24 13:15
Matrix: Water
Date Received: 04/26/24 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9034		1	300 mL	300 mL	835595	04/30/24 15:01	JAS	EET SAV
Total/NA	Analysis	9060A		1	40 mL	40 mL	835908	04/30/24 16:02	NVF	EET SAV
	Instrument ID: TOC7									

Client Sample ID: G6M-07-02X-SPR24-LTM
Lab Sample ID: 680-249958-5
Date Collected: 04/22/24 10:55
Matrix: Water
Date Received: 04/26/24 10:25

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	836473	05/06/24 17:07	P1C	EET SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	836209	05/03/24 20:01	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		1	2 mL	2 mL	837022	05/08/24 14:45	UI	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	835232	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6010C		1			835493	04/29/24 21:38	BCB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	835233	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6020A		1			835685	04/30/24 16:37	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Analysis	2320B-2011		1			835500	04/30/24 00:27	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	835695	04/30/24 13:12	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	280 mL	280 mL	835595	04/30/24 15:01	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	835908	05/01/24 00:25	NVF	EET SAV
	Instrument ID: TOC7									

Client Sample ID: G6M-13-01X-SPR24-LTM
Lab Sample ID: 680-249958-6
Date Collected: 04/23/24 14:45
Matrix: Water
Date Received: 04/26/24 10:25

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	836369	05/04/24 21:28	UI	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	836209	05/03/24 20:14	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		5	2 mL	2 mL	837022	05/08/24 14:52	UI	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	835232	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6010C		1			835493	04/29/24 21:48	BCB	EET SAV
	Instrument ID: ICPH									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-249958-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Client Sample ID: G6M-13-01X-SPR24-LTM
Lab Sample ID: 680-249958-6
Date Collected: 04/23/24 14:45
Matrix: Water
Date Received: 04/26/24 10:25

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	125 mL	835233	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6020A		1			835685	04/30/24 16:43	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Analysis	2320B-2011		1			835500	04/30/24 00:45	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	835695	04/30/24 14:37	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	300 mL	300 mL	835595	04/30/24 15:01	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	835910	05/01/24 02:30	NVF	EET SAV
	Instrument ID: TOC7									

Client Sample ID: G6M-13-02X-SPR24-LTM
Lab Sample ID: 680-249958-7
Date Collected: 04/23/24 12:10
Matrix: Water
Date Received: 04/26/24 10:25

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	836681	05/07/24 18:04	P1C	EET SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	836209	05/03/24 20:27	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		10	2 mL	2 mL	837022	05/08/24 14:58	UI	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	835232	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6010C		1			835493	04/29/24 21:50	BCB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	835233	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6020A		1			835685	04/30/24 16:51	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Analysis	2320B-2011		1			835500	04/30/24 00:37	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	835695	04/30/24 13:21	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	280 mL	280 mL	835595	04/30/24 15:01	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	835910	05/01/24 03:16	NVF	EET SAV
	Instrument ID: TOC7									

Client Sample ID: G6M-13-05X-SPR24-LTM
Lab Sample ID: 680-249958-8
Date Collected: 04/22/24 16:00
Matrix: Water
Date Received: 04/26/24 10:25

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	836473	05/06/24 17:29	P1C	EET SAV
	Instrument ID: CMSAA									

Client Sample ID: G6M-13-05X-SPR24-LTM
Lab Sample ID: 680-249958-8

Date Collected: 04/22/24 16:00
Matrix: Water
Date Received: 04/26/24 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	836209	05/03/24 20:40	OK	EET SAV
Total/NA	Analysis	9056A		5	2 mL	2 mL	837022	05/08/24 15:05	UI	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	835232	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6010C		1			835493	04/29/24 21:57	BCB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	835233	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6020A		1			835685	04/30/24 17:00	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Analysis	2320B-2011		1			835500	04/30/24 01:03	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	835695	04/30/24 13:23	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	310 mL	310 mL	835595	04/30/24 15:01	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	835910	05/01/24 03:38	NVF	EET SAV
	Instrument ID: TOC7									

Client Sample ID: G6M-97-05B-SPR24-LTM
Lab Sample ID: 680-249958-9

Date Collected: 04/23/24 12:25
Matrix: Water
Date Received: 04/26/24 10:25

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	836369	05/04/24 22:32	UI	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	836209	05/03/24 20:53	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		10	2 mL	2 mL	837022	05/08/24 15:11	UI	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	835232	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6010C		1			835493	04/29/24 22:02	BCB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	835233	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6020A		1			835685	04/30/24 17:06	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Analysis	2320B-2011		1			835500	04/30/24 00:55	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	835695	04/30/24 13:25	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	310 mL	310 mL	835595	04/30/24 15:01	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	835910	05/01/24 03:57	NVF	EET SAV
	Instrument ID: TOC7									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-249958-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Client Sample ID: XSA-12-96X-SPR24-LTM
Lab Sample ID: 680-249958-10
Date Collected: 04/22/24 14:55
Matrix: Water
Date Received: 04/26/24 10:25

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	836473	05/06/24 17:51	P1C	EET SAV
	Instrument ID: CMSAA									
Dissolved	Prep	3005A			25 mL	25 mL	835232	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6010C		1			835493	04/29/24 21:55	BCB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	835233	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6020A		1			835685	04/30/24 16:57	BWR	EET SAV
	Instrument ID: ICPMSD									

Client Sample ID: AOC50-RB01-SPR24-LTM
Lab Sample ID: 680-249958-11
Date Collected: 04/24/24 07:30
Matrix: Water
Date Received: 04/26/24 10:25

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	836681	05/07/24 19:10	P1C	EET SAV
	Instrument ID: CMSAA									
Dissolved	Prep	3005A			25 mL	25 mL	835232	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6010C		1			835493	04/29/24 22:00	BCB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	835233	04/29/24 06:19	RR	EET SAV
Dissolved	Analysis	6020A		1			835685	04/30/24 17:03	BWR	EET SAV
	Instrument ID: ICPMSD									

Client Sample ID: AOC50-TB-SPR24-LTM
Lab Sample ID: 680-249958-12
Date Collected: 04/22/24 00:00
Matrix: Water
Date Received: 04/26/24 10:25

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	836369	05/04/24 19:41	UI	EET SAV
	Instrument ID: CMSAJ									

Laboratory References:
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Seres Engineering & Services LLC
Job ID: 680-249958-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2463	09-22-24

Method Summary

Client: Seres Engineering & Services LLC
Job ID: 680-249958-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Spring 2024

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds (GC/MS)	SW846	EET SAV
RSK-175	Dissolved Gases (GC)	RSK	EET SAV
9056A	Anions, Ion Chromatography	SW846	EET SAV
6010C	Metals (ICP)	SW846	EET SAV
6020A	Metals (ICP/MS)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
353.2-1993 R2.0	Nitrogen, Nitrate-Nitrite	MCAWW	EET SAV
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET SAV
9060A	Organic Carbon, Total (TOC)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

ARVC
Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-SPR24-LTM

US Army Corps of Engineers

Project Name: Former Fort Devens, Long Term Monitoring	**Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA**	**Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Spring 2024**
Project Number: PO 2312 - 00000001	**POC: Jerry Lanier, 912-250-0281, jerry.lanier@eurofinsus.com**	
WBS Code:	**Ship to: Eurofins TestAmerica, 5102 LaRoche Avenue, Savannah, GA 31404**	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (J) = Al Fe
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
6	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

Analytical Test Method

Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Spring 2024

	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (J)	SW6020A/FLDFLT (B)	SW8260B - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC
	46	47	8	9	9	29	7	5	10

	Sample ID	Matrix	Date	Time	Samp Init.	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	AOC50-DUP01-SPR24-LTM	WG	4-22-24	1055	DC	G6M-07-02X	FD1	22.50	27.50	1	
2	G6M-04-02X-SPR24-LTM	WG	4-23-24	1020	FM	G6M-04-02X	N1	80.00	90.00	1	
3	G6M-04-07X-SPR24-LTM	WG	4-22-24	1155	FM	G6M-04-07X	N1	120.00	130.00	1	
4	G6M-04-10A-SPR24-LTM	WG	4-22-24	1315	DC	G6M-04-10A	MS1	30.00	40.00	1	
5	G6M-04-10A-SPR24-LTM	WG	4-22-24	1315	DC	G6M-04-10A	N1	30.00	40.00	1	
6	G6M-04-10A-SPR24-LTM	WG	4-22-24	1315	DC	G6M-04-10A	SD1	30.00	40.00	1	
7	G6M-07-02X-SPR24-LTM	WG	4-22-24	1055	DC	G6M-07-02X	N1	22.50	27.50	1	
8	G6M-13-01X-SPR24-LTM	WG	4-23-24	1445	DC	G6M-13-01X	N1	125.00	135.00	1	
9	G6M-13-02X-SPR24-LTM	WG	4-23-24	1210	FM	G6M-13-02X	N1	115.00	125.00	1	
10	G6M-13-05X-SPR24-LTM	WG	4-22-24	1600	DC	G6M-13-05X	N1	45.00	55.00	1	
11	G6M-97-05B-SPR24-LTM	WG	4-23-24	1225	DC	G6M-97-05B	N1	130.00	135.00	1	
12	XSA-12-96X-SPR24-LTM	WG	4-22-24	1455	FM	XSA-12-96X	N1	120.00	130.00	1	
13	AOC50-RB01-SPR24-LTM		4/22/24	730	DC						
14	AOC50-TB-SPR24-LTM		—	—	Lab						
15											
16											
17											

680-249958 Chain of Custody

Turnaround Time: Standard

Relinquished by: (Signature) Diane Clapper
Date 4-24-24
Time 8:00
Received by: (Signature)

Received by Laboratory: (Signature)
Date 4/24/24
Time 08:30

4/24/24 → FedEx 428134 7:40
C. Munro 4/24/24 1825
4.1/4.2

Login Sample Receipt Checklist

Client: Seres Engineering & Services LLC

Job Number: 680-249958-1

Login Number: 249958
List Number: 1
Creator: Munro, Caroline

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12

ANALYTICAL REPORT

PREPARED FOR

Attn: Heather Levesque
Seres Engineering & Services LLC
669 Marina Drive
Suite B7
Charleston, South Carolina 29492

Generated 1/8/2025 9:39:40 AM Revision 1

JOB DESCRIPTION

Seres-Arcadis JV, LTM, AOC 50, Fall 2024

JOB NUMBER

680-258431-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

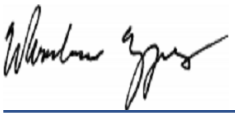
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Job Notes

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Authorization



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1/8/2025 9:39:40 AM
Revision 1

Authorized for release by
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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

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.
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Seres Engineering & Services LLC
Job ID: 680-258431-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-258431-1	G6M-02-11X-FAL24	Water	11/07/24 16:00	11/12/24 09:50
680-258431-2	G6M-04-02X-FAL24	Water	11/07/24 11:16	11/12/24 09:50
680-258431-3	G6M-04-15X-FAL24	Water	11/07/24 15:00	11/12/24 09:50
680-258431-4	G6M-04-22X-FAL24	Water	11/07/24 11:05	11/12/24 09:50
680-258431-5	G6M-04-31X-FAL24	Water	11/07/24 12:25	11/12/24 09:50
680-258431-6	G6M-13-03X-FAL24	Water	11/07/24 14:51	11/12/24 09:50
680-258431-7	AOC50-RB-01-FAL24	Water	11/07/24 11:30	11/12/24 09:50

Job Narrative
680-258431-1

REVISION

The report being provided is a revision of the original report sent on 11/30/2024. The report (revision 1) is being revised due to TOC method updated to 9060A to match the eQAPP.

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 11/12/2024 9:50 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 1.2°C, 1.4°C and 1.9°C.

GC/MS VOA
Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-865326 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-865326 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The initial calibration verification (ICV) analyzed in batch 680-865242 was outside method criteria for the following analyte(s): Vinyl acetate. 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 VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
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.

General Chemistry
Method 353.2_Pres: The instrument blank for analytical batch 680-865395 contained nox greater than the method detection limit (MDL), and were not reanalyzed because result is less than 1/2 the RL The data have been qualified and reported.

Method 353.2_Pres: The method blank for analytical batch 680-865395 contained nitrate nitrite as N above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

Method 9034: Certified Reference Materials (CRM) and Standard Reference Materials (SRM) are not available for potassium iodate. Standards from an authoritative source have been used for calibration. The initial calibrations have been verified with a standard from an authoritative, independent, second source.

Job ID: 680-258431-1 (Continued) Eurofins Savannah

Method 9034: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-864303.

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

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258431-1

Client Sample ID: G6M-02-11X-FAL24
Date Collected: 11/07/24 16:00
Date Received: 11/12/24 09:50

Lab Sample ID: 680-258431-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 15:57	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 15:57	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 15:57	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 15:57	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 15:57	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 15:57	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 15:57	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 15:57	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 15:57	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 15:57	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 15:57	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 15:57	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 15:57	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 15:57	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 15:57	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 15:57	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 15:57	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 15:57	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 15:57	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 15:57	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 15:57	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:57	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 15:57	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 15:57	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 15:57	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 15:57	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 15:57	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:57	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 15:57	1
cis-1,2-Dichloroethene	**0.94**	**J**	2.0	1.0	0.25	ug/L		11/20/24 15:57	1
trans-1,2-Dichloroethene	**0.53**	**J**	2.0	1.0	0.34	ug/L		11/20/24 15:57	1
1,2-Dichloroethene, Total	**1.5**	**J**	2.0	1.0	0.37	ug/L		11/20/24 15:57	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:57	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 15:57	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 15:57	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 15:57	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 15:57	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 15:57	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 15:57	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 15:57	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 15:57	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 15:57	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 15:57	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 15:57	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 15:57	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 15:57	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 15:57	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 15:57	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 15:57	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258431-1

Client Sample ID: G6M-02-11X-FAL24
Date Collected: 11/07/24 16:00
Date Received: 11/12/24 09:50

Lab Sample ID: 680-258431-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 15:57	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 15:57	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 15:57	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 15:57	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 15:57	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 15:57	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 15:57	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 15:57	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 15:57	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 15:57	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:57	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 15:57	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 15:57	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 15:57	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 15:57	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 15:57	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 15:57	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 15:57	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*89 - 112*		*11/20/24 15:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*81 - 118*		*11/20/24 15:57*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*11/20/24 15:57*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 119*		*11/20/24 15:57*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**36000**	**J1**	100	50	20	ug/L		11/16/24 11:28	1
Manganese	**4600**	**J1**	10	5.0	1.3	ug/L		11/16/24 11:28	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**560**		5.0	3.0	0.86	ug/L		11/13/24 12:47	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258431-1

Client Sample ID: G6M-04-02X-FAL24
Date Collected: 11/07/24 11:16
Date Received: 11/12/24 09:50

Lab Sample ID: 680-258431-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 16:19	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 16:19	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 16:19	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 16:19	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 16:19	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 16:19	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 16:19	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 16:19	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 16:19	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 16:19	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 16:19	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 16:19	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 16:19	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 16:19	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 16:19	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 16:19	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 16:19	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 16:19	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 16:19	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 16:19	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 16:19	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:19	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 16:19	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 16:19	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 16:19	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 16:19	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 16:19	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:19	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 16:19	1
cis-1,2-Dichloroethene	**38**		2.0	1.0	0.25	ug/L		11/20/24 16:19	1
trans-1,2-Dichloroethene	**0.60**	**J**	2.0	1.0	0.34	ug/L		11/20/24 16:19	1
1,2-Dichloroethene, Total	**39**		2.0	1.0	0.37	ug/L		11/20/24 16:19	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:19	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 16:19	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 16:19	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 16:19	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 16:19	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 16:19	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 16:19	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 16:19	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 16:19	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 16:19	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 16:19	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 16:19	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 16:19	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 16:19	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 16:19	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 16:19	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 16:19	1

Client Sample ID: G6M-04-02X-FAL24
Lab Sample ID: 680-258431-2

Date Collected: 11/07/24 11:16
Matrix: Water
Date Received: 11/12/24 09:50

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 16:19	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 16:19	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 16:19	1
Tetrachloroethene	**20**		2.0	1.0	0.35	ug/L		11/20/24 16:19	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 16:19	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 16:19	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 16:19	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 16:19	1
1,1,2-Trichloroethane	1.0	U M	2.0	1.0	0.32	ug/L		11/20/24 16:19	1
Trichloroethene	**41**		1.0	0.50	0.20	ug/L		11/20/24 16:19	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:19	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 16:19	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 16:19	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 16:19	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 16:19	1
Vinyl chloride	**5.0**		2.0	1.0	0.40	ug/L		11/20/24 16:19	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 16:19	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 16:19	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*89 - 112*		*11/20/24 16:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*81 - 118*		*11/20/24 16:19*	*1*
4-Bromofluorobenzene (Surr)	*105*		*85 - 114*		*11/20/24 16:19*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 119*		*11/20/24 16:19*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**5.0**		1.1	0.76	0.30	ug/L		11/18/24 18:05	1
Ethylene	**11**		1.0	0.71	0.31	ug/L		11/18/24 18:05	1
Methane	**16000**		1.2	1.2	0.57	ug/L		11/18/24 18:05	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	**9.2**		1.5	1.0	0.40	mg/L		11/25/24 19:23	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**12000**		100	50	20	ug/L		11/15/24 23:45	1
Manganese	**13000**		10	5.0	1.3	ug/L		11/15/24 23:45	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**42**		5.0	3.0	0.86	ug/L		11/13/24 13:20	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**110**		5.5	5.0	2.2	mg/L		11/13/24 23:53	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	**0.019**	**J**	0.10	0.025	0.010	mg/L		11/19/24 14:45	1

Client: Seres Engineering & Services LLC
Job ID: 680-258431-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-04-02X-FAL24
Lab Sample ID: 680-258431-2
Date Collected: 11/07/24 11:16
Matrix: Water
Date Received: 11/12/24 09:50

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	1.7	U	2.6	1.7	0.86	mg/L		11/13/24 11:14	1
Total Organic Carbon (SW846 9060A)	**3.7**		1.0	1.0	0.50	mg/L		11/18/24 16:20	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258431-1

Client Sample ID: G6M-04-15X-FAL24
Date Collected: 11/07/24 15:00
Date Received: 11/12/24 09:50

Lab Sample ID: 680-258431-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 16:42	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 16:42	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 16:42	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 16:42	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 16:42	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 16:42	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 16:42	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 16:42	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 16:42	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 16:42	1
tert-Butylbenzene	1.0	U M	2.0	1.0	0.43	ug/L		11/20/24 16:42	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 16:42	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 16:42	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 16:42	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 16:42	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 16:42	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 16:42	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 16:42	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 16:42	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 16:42	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 16:42	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:42	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 16:42	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 16:42	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 16:42	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 16:42	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 16:42	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:42	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 16:42	1
cis-1,2-Dichloroethene	**0.78**	**J**	2.0	1.0	0.25	ug/L		11/20/24 16:42	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 16:42	1
1,2-Dichloroethene, Total	**0.78**	**J**	2.0	1.0	0.37	ug/L		11/20/24 16:42	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:42	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 16:42	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 16:42	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 16:42	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 16:42	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 16:42	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 16:42	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 16:42	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 16:42	1
2-Hexanone	10	U M	20	10	3.2	ug/L		11/20/24 16:42	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 16:42	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 16:42	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 16:42	1
4-Methyl-2-pentanone (MIBK)	10	U M	20	10	2.7	ug/L		11/20/24 16:42	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 16:42	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 16:42	1
N-Propylbenzene	1.0	U M	2.0	1.0	0.41	ug/L		11/20/24 16:42	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258431-1

Client Sample ID: G6M-04-15X-FAL24
Date Collected: 11/07/24 15:00
Date Received: 11/12/24 09:50

Lab Sample ID: 680-258431-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 16:42	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 16:42	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 16:42	1
Tetrachloroethene	**0.40**	**J**	2.0	1.0	0.35	ug/L		11/20/24 16:42	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 16:42	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 16:42	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 16:42	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 16:42	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 16:42	1
Trichloroethene	**0.46**	**J**	1.0	0.50	0.20	ug/L		11/20/24 16:42	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:42	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 16:42	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 16:42	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 16:42	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 16:42	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 16:42	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 16:42	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 16:42	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*89 - 112*		*11/20/24 16:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*		*11/20/24 16:42*	*1*
4-Bromofluorobenzene (Surr)	*109*		*85 - 114*		*11/20/24 16:42*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 119*		*11/20/24 16:42*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**9100**		100	50	20	ug/L		11/15/24 23:24	1
Manganese	**910**		10	5.0	1.3	ug/L		11/15/24 23:24	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**150**		5.0	3.0	0.86	ug/L		11/13/24 13:02	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258431-1

Client Sample ID: G6M-04-22X-FAL24
Date Collected: 11/07/24 11:05
Date Received: 11/12/24 09:50

Lab Sample ID: 680-258431-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 17:05	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 17:05	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 17:05	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 17:05	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 17:05	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 17:05	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 17:05	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 17:05	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 17:05	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 17:05	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 17:05	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 17:05	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 17:05	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 17:05	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 17:05	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 17:05	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 17:05	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 17:05	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 17:05	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 17:05	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 17:05	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:05	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 17:05	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 17:05	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 17:05	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 17:05	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 17:05	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:05	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 17:05	1
cis-1,2-Dichloroethene	**0.90**	**J**	2.0	1.0	0.25	ug/L		11/20/24 17:05	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 17:05	1
1,2-Dichloroethene, Total	**0.90**	**J**	2.0	1.0	0.37	ug/L		11/20/24 17:05	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:05	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 17:05	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 17:05	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 17:05	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 17:05	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 17:05	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 17:05	1
Ethylbenzene	**0.42**	**J**	1.0	0.50	0.20	ug/L		11/20/24 17:05	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 17:05	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 17:05	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 17:05	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 17:05	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 17:05	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 17:05	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 17:05	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 17:05	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 17:05	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258431-1

Client Sample ID: G6M-04-22X-FAL24

Date Collected: 11/07/24 11:05
Date Received: 11/12/24 09:50

Lab Sample ID: 680-258431-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 17:05	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 17:05	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 17:05	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 17:05	1
Toluene	**1.6**	**J**	2.0	1.0	0.25	ug/L		11/20/24 17:05	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 17:05	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 17:05	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 17:05	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 17:05	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 17:05	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:05	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 17:05	1
1,2,4-Trimethylbenzene	**1.8**	**J**	2.0	1.0	0.43	ug/L		11/20/24 17:05	1
1,3,5-Trimethylbenzene	**0.58**	**J**	2.0	1.0	0.28	ug/L		11/20/24 17:05	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 17:05	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 17:05	1
o-Xylene	**0.40**	**J**	2.0	1.0	0.26	ug/L		11/20/24 17:05	1
m-Xylene & p-Xylene	**0.66**	**J**	2.0	1.0	0.49	ug/L		11/20/24 17:05	1
Xylenes, Total	**1.1**	**J**	2.0	1.0	0.49	ug/L		11/20/24 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*89 - 112*		*11/20/24 17:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*81 - 118*		*11/20/24 17:05*	*1*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*		*11/20/24 17:05*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 119*		*11/20/24 17:05*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**95000**		100	50	20	ug/L		11/15/24 23:30	1
Manganese	**1000**		10	5.0	1.3	ug/L		11/15/24 23:30	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**710**		5.0	3.0	0.86	ug/L		11/13/24 13:12	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258431-1

Client Sample ID: G6M-04-31X-FAL24
Date Collected: 11/07/24 12:25
Date Received: 11/12/24 09:50

Lab Sample ID: 680-258431-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 17:28	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 17:28	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 17:28	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 17:28	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 17:28	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 17:28	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 17:28	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 17:28	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 17:28	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 17:28	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 17:28	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 17:28	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 17:28	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 17:28	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 17:28	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 17:28	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 17:28	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 17:28	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 17:28	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 17:28	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 17:28	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:28	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 17:28	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 17:28	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 17:28	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 17:28	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 17:28	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:28	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 17:28	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 17:28	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 17:28	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 17:28	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:28	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 17:28	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 17:28	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 17:28	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 17:28	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 17:28	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 17:28	1
Ethylbenzene	0.50	U M	1.0	0.50	0.20	ug/L		11/20/24 17:28	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 17:28	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 17:28	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 17:28	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 17:28	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 17:28	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 17:28	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 17:28	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 17:28	1
N-Propylbenzene	1.0	U M	2.0	1.0	0.41	ug/L		11/20/24 17:28	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258431-1

Client Sample ID: G6M-04-31X-FAL24
Date Collected: 11/07/24 12:25
Date Received: 11/12/24 09:50

Lab Sample ID: 680-258431-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 17:28	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 17:28	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 17:28	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 17:28	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 17:28	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 17:28	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 17:28	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 17:28	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 17:28	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 17:28	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:28	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 17:28	1
1,2,4-Trimethylbenzene	**0.43**	**J**	2.0	1.0	0.43	ug/L		11/20/24 17:28	1
1,3,5-Trimethylbenzene	1.0	U M	2.0	1.0	0.28	ug/L		11/20/24 17:28	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 17:28	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 17:28	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 17:28	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 17:28	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*89 - 112*		*11/20/24 17:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*81 - 118*		*11/20/24 17:28*	*1*
4-Bromofluorobenzene (Surr)	*106*		*85 - 114*		*11/20/24 17:28*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*11/20/24 17:28*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**40000**		100	50	20	ug/L		11/15/24 23:33	1
Manganese	**2400**		10	5.0	1.3	ug/L		11/15/24 23:33	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**290**		5.0	3.0	0.86	ug/L		11/13/24 13:15	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258431-1

Client Sample ID: G6M-13-03X-FAL24
Date Collected: 11/07/24 14:51
Date Received: 11/12/24 09:50

Lab Sample ID: 680-258431-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 17:50	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 17:50	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 17:50	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 17:50	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 17:50	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 17:50	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 17:50	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 17:50	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 17:50	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 17:50	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 17:50	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 17:50	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 17:50	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 17:50	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 17:50	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 17:50	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 17:50	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 17:50	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 17:50	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 17:50	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 17:50	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:50	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 17:50	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 17:50	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 17:50	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 17:50	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 17:50	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:50	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 17:50	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 17:50	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 17:50	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 17:50	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:50	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 17:50	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 17:50	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 17:50	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 17:50	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 17:50	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 17:50	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 17:50	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 17:50	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 17:50	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 17:50	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 17:50	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 17:50	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 17:50	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 17:50	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 17:50	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 17:50	1

Client: Seres Engineering & Services LLC
Job ID: 680-258431-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-13-03X-FAL24
Lab Sample ID: 680-258431-6
Date Collected: 11/07/24 14:51
Matrix: Water
Date Received: 11/12/24 09:50

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 17:50	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 17:50	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 17:50	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 17:50	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 17:50	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 17:50	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 17:50	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 17:50	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 17:50	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 17:50	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:50	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 17:50	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 17:50	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 17:50	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 17:50	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 17:50	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 17:50	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 17:50	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*89 - 112*		*11/20/24 17:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*81 - 118*		*11/20/24 17:50*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*11/20/24 17:50*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 119*		*11/20/24 17:50*	*1*

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258431-1

Client Sample ID: AOC50-RB-01-FAL24
Date Collected: 11/07/24 11:30
Date Received: 11/12/24 09:50

Lab Sample ID: 680-258431-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 14:21	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 14:21	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 14:21	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 14:21	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 14:21	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 14:21	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 14:21	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 14:21	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 14:21	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 14:21	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 14:21	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 14:21	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 14:21	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 14:21	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 14:21	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 14:21	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 14:21	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 14:21	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 14:21	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 14:21	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 14:21	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 14:21	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 14:21	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 14:21	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 14:21	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 14:21	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 14:21	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 14:21	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 14:21	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 14:21	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 14:21	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 14:21	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 14:21	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 14:21	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 14:21	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 14:21	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 14:21	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 14:21	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 14:21	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 14:21	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 14:21	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 14:21	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 14:21	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 14:21	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 14:21	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 14:21	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 14:21	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 14:21	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 14:21	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258431-1

Client Sample ID: AOC50-RB-01-FAL24
Date Collected: 11/07/24 11:30
Date Received: 11/12/24 09:50

Lab Sample ID: 680-258431-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 14:21	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 14:21	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 14:21	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 14:21	1
Toluene	**0.35**	**J**	2.0	1.0	0.25	ug/L		11/20/24 14:21	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 14:21	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 14:21	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 14:21	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 14:21	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 14:21	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 14:21	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 14:21	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 14:21	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 14:21	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 14:21	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 14:21	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 14:21	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 14:21	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*89 - 112*		*11/20/24 14:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*81 - 118*		*11/20/24 14:21*	*1*
4-Bromofluorobenzene (Surr)	*105*		*85 - 114*		*11/20/24 14:21*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*11/20/24 14:21*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/15/24 23:42	1
Manganese	5.0	U	10	5.0	1.3	ug/L		11/15/24 23:42	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		11/13/24 13:18	1

Method: 8260D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-865326/9
Matrix: Water
Analysis Batch: 865326

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 12:28	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 12:28	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 12:28	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 12:28	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 12:28	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 12:28	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 12:28	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 12:28	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 12:28	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 12:28	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 12:28	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 12:28	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 12:28	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 12:28	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 12:28	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 12:28	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 12:28	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 12:28	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 12:28	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 12:28	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 12:28	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:28	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 12:28	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 12:28	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 12:28	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 12:28	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 12:28	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:28	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 12:28	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 12:28	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 12:28	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 12:28	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:28	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 12:28	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 12:28	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 12:28	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 12:28	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 12:28	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 12:28	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 12:28	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 12:28	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 12:28	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 12:28	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 12:28	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 12:28	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 12:28	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 12:28	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 12:28	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-865326/9
Matrix: Water
Analysis Batch: 865326

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
N-Propylbenzene	1.0	U M	2.0	1.0	0.41	ug/L		11/20/24 12:28	1
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 12:28	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 12:28	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 12:28	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 12:28	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 12:28	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 12:28	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 12:28	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 12:28	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 12:28	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 12:28	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:28	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 12:28	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 12:28	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 12:28	1
Vinyl acetate	2.0	U	2.5	2.0	0.69	ug/L		11/20/24 12:28	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 12:28	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 12:28	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 12:28	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 12:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*89 - 112*		*11/20/24 12:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*81 - 118*		*11/20/24 12:28*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*11/20/24 12:28*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 119*		*11/20/24 12:28*	*1*

Lab Sample ID: LCS 680-865326/4
Matrix: Water
Analysis Batch: 865326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	245		ug/L		98	39 - 160
Benzene	50.0	51.0		ug/L		102	79 - 120
Bromobenzene	50.0	50.7		ug/L		101	80 - 120
Chlorobromomethane	50.0	51.9		ug/L		104	78 - 123
Dichlorobromomethane	50.0	51.3		ug/L		103	79 - 125
Bromoform	50.0	47.3		ug/L		95	66 - 130
Bromomethane	50.0	52.1		ug/L		104	53 - 141
2-Butanone (MEK)	250	246		ug/L		99	56 - 143
n-Butylbenzene	50.0	52.6		ug/L		105	75 - 128
sec-Butylbenzene	50.0	52.4		ug/L		105	77 - 126
tert-Butylbenzene	50.0	52.2		ug/L		104	78 - 124
Carbon disulfide	50.0	52.9		ug/L		106	64 - 133
Carbon tetrachloride	50.0	54.4		ug/L		109	72 - 136
Chlorobenzene	50.0	49.7		ug/L		99	82 - 118
Chloroethane	50.0	52.3		ug/L		105	60 - 138
Chloroform	50.0	50.6		ug/L		101	79 - 124

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-865326/4
Matrix: Water
Analysis Batch: 865326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	50.0	49.1		ug/L		98	50 - 139
2-Chlorotoluene	50.0	50.6		ug/L		101	79 - 122
4-Chlorotoluene	50.0	50.5		ug/L		101	78 - 122
Chlorodibromomethane	50.0	47.9		ug/L		96	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	52.6		ug/L		105	62 - 128
Ethylene Dibromide	50.0	51.0		ug/L		102	75 - 127
Dibromomethane	50.0	49.2		ug/L		98	79 - 123
1,2-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 119
1,3-Dichlorobenzene	50.0	50.1		ug/L		100	80 - 119
1,4-Dichlorobenzene	50.0	48.9		ug/L		98	79 - 118
Dichlorodifluoromethane	50.0	54.8		ug/L		110	32 - 152
1,1-Dichloroethane	50.0	51.7		ug/L		103	77 - 125
1,2-Dichloroethane	50.0	49.8		ug/L		100	73 - 128
cis-1,2-Dichloroethene	50.0	51.9		ug/L		104	78 - 123
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	75 - 124
1,2-Dichloroethene, Total	100	104		ug/L		104	79 - 121
1,1-Dichloroethene	50.0	53.4		ug/L		107	71 - 131
1,2-Dichloropropane	50.0	51.2		ug/L		102	78 - 122
1,3-Dichloropropane	50.0	49.8		ug/L		100	80 - 119
2,2-Dichloropropane	50.0	55.9		ug/L		112	60 - 139
1,1-Dichloropropene	50.0	52.1		ug/L		104	79 - 125
cis-1,3-Dichloropropene	50.0	53.3		ug/L		107	75 - 124
trans-1,3-Dichloropropene	50.0	49.4		ug/L		99	73 - 127
Ethylbenzene	50.0	49.9		ug/L		100	79 - 121
Hexachlorobutadiene	50.0	53.1		ug/L		106	66 - 134
2-Hexanone	250	249		ug/L		100	57 - 139
Isopropylbenzene	50.0	52.2		ug/L		104	72 - 131
4-Isopropyltoluene	50.0	52.6		ug/L		105	77 - 127
Methylene Chloride	50.0	51.5		ug/L		103	74 - 124
4-Methyl-2-pentanone (MIBK)	250	244		ug/L		98	67 - 130
Methyl tert-butyl ether	50.0	51.1		ug/L		102	71 - 124
Naphthalene	50.0	46.1		ug/L		92	61 - 128
N-Propylbenzene	50.0	52.5		ug/L		105	76 - 126
Styrene	50.0	52.3		ug/L		105	78 - 123
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/L		102	78 - 124
1,1,2,2-Tetrachloroethane	50.0	53.8		ug/L		108	71 - 121
Tetrachloroethene	50.0	49.5		ug/L		99	74 - 129
Toluene	50.0	49.6		ug/L		99	80 - 121
1,2,3-Trichlorobenzene	50.0	52.0		ug/L		104	69 - 129
1,2,4-Trichlorobenzene	50.0	52.1		ug/L		104	69 - 130
1,1,1-Trichloroethane	50.0	51.8		ug/L		104	74 - 131
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	80 - 119
Trichloroethene	50.0	49.5		ug/L		99	79 - 123
Trichlorofluoromethane	50.0	58.2		ug/L		116	65 - 141
1,2,3-Trichloropropane	50.0	48.3		ug/L		97	73 - 122
1,2,4-Trimethylbenzene	50.0	51.2		ug/L		102	76 - 124
1,3,5-Trimethylbenzene	50.0	51.1		ug/L		102	75 - 124
Vinyl acetate	100	223	Q	ug/L		223	54 - 146
Vinyl chloride	50.0	55.0		ug/L		110	58 - 137

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-865326/4
Matrix: Water
Analysis Batch: 865326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	50.0	50.4		ug/L		101	78 - 122
m-Xylene & p-Xylene	50.0	49.5		ug/L		99	80 - 121
Xylenes, Total	100	99.9		ug/L		100	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*
4-Bromofluorobenzene (Surr)	*101*		*85 - 114*
Dibromofluoromethane (Surr)	*104*		*80 - 119*

Lab Sample ID: LCSD 680-865326/5
Matrix: Water
Analysis Batch: 865326

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
Acetone	250	259		ug/L		104	39 - 160	6	20
Benzene	50.0	51.1		ug/L		102	79 - 120	0	20
Bromobenzene	50.0	50.5		ug/L		101	80 - 120	0	20
Chlorobromomethane	50.0	52.1		ug/L		104	78 - 123	0	20
Dichlorobromomethane	50.0	52.7		ug/L		105	79 - 125	3	20
Bromoform	50.0	48.3		ug/L		97	66 - 130	2	20
Bromomethane	50.0	52.0		ug/L		104	53 - 141	0	20
2-Butanone (MEK)	250	261		ug/L		104	56 - 143	6	20
n-Butylbenzene	50.0	51.9		ug/L		104	75 - 128	1	20
sec-Butylbenzene	50.0	51.9		ug/L		104	77 - 126	1	20
tert-Butylbenzene	50.0	51.6		ug/L		103	78 - 124	1	20
Carbon disulfide	50.0	52.1		ug/L		104	64 - 133	2	20
Carbon tetrachloride	50.0	53.5		ug/L		107	72 - 136	2	20
Chlorobenzene	50.0	49.7		ug/L		99	82 - 118	0	20
Chloroethane	50.0	51.6		ug/L		103	60 - 138	1	20
Chloroform	50.0	51.1		ug/L		102	79 - 124	1	20
Chloromethane	50.0	49.0		ug/L		98	50 - 139	0	20
2-Chlorotoluene	50.0	50.2		ug/L		100	79 - 122	1	20
4-Chlorotoluene	50.0	50.0		ug/L		100	78 - 122	1	20
Chlorodibromomethane	50.0	49.3		ug/L		99	74 - 126	3	20
1,2-Dibromo-3-Chloropropane	50.0	54.5		ug/L		109	62 - 128	4	20
Ethylene Dibromide	50.0	52.1		ug/L		104	75 - 127	2	20
Dibromomethane	50.0	51.6		ug/L		103	79 - 123	5	20
1,2-Dichlorobenzene	50.0	50.0		ug/L		100	80 - 119	1	20
1,3-Dichlorobenzene	50.0	49.9		ug/L		100	80 - 119	0	20
1,4-Dichlorobenzene	50.0	49.2		ug/L		98	79 - 118	0	20
Dichlorodifluoromethane	50.0	54.8		ug/L		110	32 - 152	0	20
1,1-Dichloroethane	50.0	52.3		ug/L		105	77 - 125	1	20
1,2-Dichloroethane	50.0	51.0		ug/L		102	73 - 128	2	20
cis-1,2-Dichloroethene	50.0	52.3		ug/L		105	78 - 123	1	20
trans-1,2-Dichloroethene	50.0	51.5		ug/L		103	75 - 124	0	20
1,2-Dichloroethene, Total	100	104		ug/L		104	79 - 121	0	20
1,1-Dichloroethene	50.0	53.0		ug/L		106	71 - 131	1	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-865326/5
Matrix: Water
Analysis Batch: 865326

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
1,2-Dichloropropane			50.0	51.8		ug/L		104	78 - 122	1	20
1,3-Dichloropropane			50.0	51.5		ug/L		103	80 - 119	3	20
2,2-Dichloropropane			50.0	55.1		ug/L		110	60 - 139	1	20
1,1-Dichloropropene			50.0	52.0		ug/L		104	79 - 125	0	20
cis-1,3-Dichloropropene			50.0	54.6		ug/L		109	75 - 124	2	20
trans-1,3-Dichloropropene			50.0	50.7		ug/L		101	73 - 127	3	20
Ethylbenzene			50.0	50.3		ug/L		101	79 - 121	1	20
Hexachlorobutadiene			50.0	52.0		ug/L		104	66 - 134	2	20
2-Hexanone			250	260		ug/L		104	57 - 139	4	20
Isopropylbenzene			50.0	52.3		ug/L		105	72 - 131	0	20
4-Isopropyltoluene			50.0	51.9		ug/L		104	77 - 127	1	20
Methylene Chloride			50.0	52.7		ug/L		105	74 - 124	2	20
4-Methyl-2-pentanone (MIBK)			250	256		ug/L		103	67 - 130	5	20
Methyl tert-butyl ether			50.0	53.5		ug/L		107	71 - 124	5	20
Naphthalene			50.0	47.4		ug/L		95	61 - 128	3	20
N-Propylbenzene			50.0	51.9		ug/L		104	76 - 126	1	20
Styrene			50.0	52.2		ug/L		104	78 - 123	0	20
1,1,1,2-Tetrachloroethane			50.0	51.4		ug/L		103	78 - 124	1	20
1,1,2,2-Tetrachloroethane			50.0	55.3		ug/L		111	71 - 121	3	20
Tetrachloroethene			50.0	50.1		ug/L		100	74 - 129	1	20
Toluene			50.0	49.8		ug/L		100	80 - 121	1	20
1,2,3-Trichlorobenzene			50.0	51.9		ug/L		104	69 - 129	0	20
1,2,4-Trichlorobenzene			50.0	52.8		ug/L		106	69 - 130	1	20
1,1,1-Trichloroethane			50.0	51.8		ug/L		104	74 - 131	0	20
1,1,2-Trichloroethane			50.0	51.2		ug/L		102	80 - 119	2	20
Trichloroethene			50.0	49.8		ug/L		100	79 - 123	1	20
Trichlorofluoromethane			50.0	56.8		ug/L		114	65 - 141	2	20
1,2,3-Trichloropropane			50.0	49.3		ug/L		99	73 - 122	2	20
1,2,4-Trimethylbenzene			50.0	51.0		ug/L		102	76 - 124	1	20
1,3,5-Trimethylbenzene			50.0	51.3		ug/L		103	75 - 124	0	20
Vinyl acetate			100	218	Q	ug/L		218	54 - 146	2	20
Vinyl chloride			50.0	53.9		ug/L		108	58 - 137	2	20
o-Xylene			50.0	50.5		ug/L		101	78 - 122	0	20
m-Xylene & p-Xylene			50.0	49.4		ug/L		99	80 - 121	0	20
Xylenes, Total			100	99.9		ug/L		100	79 - 121	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*
Dibromofluoromethane (Surr)	*104*		*80 - 119*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-865006/30
Matrix: Water
Analysis Batch: 865006

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	0.76	U	1.1	0.76	0.30	ug/L		11/18/24 16:37	1
Ethylene	0.71	U	1.0	0.71	0.31	ug/L		11/18/24 16:37	1
Methane	1.2	U M	1.2	1.2	0.57	ug/L		11/18/24 16:37	1

Lab Sample ID: LCS 680-865006/28
Matrix: Water
Analysis Batch: 865006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	721	689		ug/L		96	74 - 131
Ethylene	673	634		ug/L		94	72 - 133
Methane	385	401		ug/L		104	73 - 125

Lab Sample ID: LCSD 680-865006/29
Matrix: Water
Analysis Batch: 865006

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
Ethane	721	679		ug/L		94	74 - 131	1	30
Ethylene	673	629		ug/L		93	72 - 133	1	30
Methane	385	394		ug/L		102	73 - 125	2	30

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-866182/2
Matrix: Water
Analysis Batch: 866182

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	1.0	0.40	mg/L		11/25/24 12:51	1

Lab Sample ID: LCS 680-866182/3
Matrix: Water
Analysis Batch: 866182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	10.4		mg/L		104	87 - 112

Lab Sample ID: LCSD 680-866182/4
Matrix: Water
Analysis Batch: 866182

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
Sulfate	10.0	10.3		mg/L		103	87 - 112	0	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-864202/1-A
Matrix: Water
Analysis Batch: 864828

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 864202

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/15/24 22:55	1
Manganese	5.0	U	10	5.0	1.3	ug/L		11/15/24 22:55	1

Lab Sample ID: LCS 680-864202/2-A
Matrix: Water
Analysis Batch: 864828

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 864202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5000	5110		ug/L		102	87 - 115
Manganese	400	406		ug/L		102	90 - 114

Lab Sample ID: 680-258431-1 MS
Matrix: Water
Analysis Batch: 864828

Client Sample ID: G6M-02-11X-FAL24
Prep Type: Dissolved
Prep Batch: 864202

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	37000	J1	5000	40500	4	ug/L		78	87 - 115
Manganese	4700	J1	400	4940	4	ug/L		69	90 - 114

Lab Sample ID: 680-258431-1 MSD
Matrix: Water
Analysis Batch: 864828

Client Sample ID: G6M-02-11X-FAL24
Prep Type: Dissolved
Prep Batch: 864202

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	37000	J1	5000	41600	4	ug/L		99	87 - 115	3	20
Manganese	4700	J1	400	5000	4	ug/L		83	90 - 114	1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-864201/1-A
Matrix: Water
Analysis Batch: 864483

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 864201

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		11/13/24 12:42	1

Lab Sample ID: LCS 680-864201/2-A
Matrix: Water
Analysis Batch: 864483

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 864201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	108		ug/L		108	84 - 116

Lab Sample ID: 680-258431-1 MS
Matrix: Water
Analysis Batch: 864483

Client Sample ID: G6M-02-11X-FAL24
Prep Type: Dissolved
Prep Batch: 864201

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	560		100	662	4	ug/L		100	84 - 116

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-258431-1 MSD
Matrix: Water
Analysis Batch: 864483

Client Sample ID: G6M-02-11X-FAL24
Prep Type: Dissolved
Prep Batch: 864201

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	560		100	678	4	ug/L		116	84 - 116	2	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-864519/4
Matrix: Water
Analysis Batch: 864519

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	5.0	U	5.5	5.0	2.2	mg/L		11/13/24 21:11	1

Lab Sample ID: LCS 680-864519/6
Matrix: Water
Analysis Batch: 864519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	250	248		mg/L		99	90 - 112

Lab Sample ID: LCSD 680-864519/31
Matrix: Water
Analysis Batch: 864519

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
Total Alkalinity as CaCO3 to pH 4.5	250	252		mg/L		101	90 - 112	2	30

Method: 353.2-1993 R2.0 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-865395/14
Matrix: Water
Analysis Batch: 865395

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0300	J	0.10	0.025	0.010	mg/L		11/19/24 13:23	1

Lab Sample ID: LCS 680-865395/15
Matrix: Water
Analysis Batch: 865395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	0.944		mg/L		94	90 - 110

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 680-864303/1
Matrix: Water
Analysis Batch: 864303

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide	2.0	U	3.0	2.0	1.0	mg/L		11/13/24 11:14	1

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 680-864303/2
Matrix: Water
Analysis Batch: 864303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	8.83		mg/L		88	75 - 125

Lab Sample ID: LCSD 680-864303/3
Matrix: Water
Analysis Batch: 864303

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
Sulfide	10.0	9.17		mg/L		92	75 - 125	4	30

Lab Sample ID: 680-258431-2 DU
Matrix: Water
Analysis Batch: 864303

Client Sample ID: G6M-04-02X-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	1.7	U	1.9	U	mg/L		NC	30

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-865306/3
Matrix: Water
Analysis Batch: 865306

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	1.0	0.50	mg/L		11/18/24 15:13	1

Lab Sample ID: LCS 680-865306/4
Matrix: Water
Analysis Batch: 865306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	20.0	20.3		mg/L		101	80 - 120

Lab Sample ID: LCSD 680-865306/5
Matrix: Water
Analysis Batch: 865306

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
Total Organic Carbon	20.0	20.3		mg/L		102	80 - 120	0	25

Lab Sample ID: 680-258431-2 DU
Matrix: Water
Analysis Batch: 865306

Client Sample ID: G6M-04-02X-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	3.7		3.71		mg/L		0.2	25
Total Organic Carbon	3.7		3.71		mg/L		0.2	25

QC Association Summary

Client: Seres Engineering & Services LLC
Job ID: 680-258431-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

GC/MS VOA

Analysis Batch: 865326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258431-1	G6M-02-11X-FAL24	Total/NA	Water	8260D	
680-258431-2	G6M-04-02X-FAL24	Total/NA	Water	8260D	
680-258431-3	G6M-04-15X-FAL24	Total/NA	Water	8260D	
680-258431-4	G6M-04-22X-FAL24	Total/NA	Water	8260D	
680-258431-5	G6M-04-31X-FAL24	Total/NA	Water	8260D	
680-258431-6	G6M-13-03X-FAL24	Total/NA	Water	8260D	
680-258431-7	AOC50-RB-01-FAL24	Total/NA	Water	8260D	
MB 680-865326/9	Method Blank	Total/NA	Water	8260D	
LCS 680-865326/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-865326/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC VOA

Analysis Batch: 865006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258431-2	G6M-04-02X-FAL24	Total/NA	Water	RSK-175	
MB 680-865006/30	Method Blank	Total/NA	Water	RSK-175	
LCS 680-865006/28	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-865006/29	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 866182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258431-2	G6M-04-02X-FAL24	Total/NA	Water	9056A	
MB 680-866182/2	Method Blank	Total/NA	Water	9056A	
LCS 680-866182/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-866182/4	Lab Control Sample Dup	Total/NA	Water	9056A	

Metals

Prep Batch: 864201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258431-1	G6M-02-11X-FAL24	Dissolved	Water	3005A	
680-258431-2	G6M-04-02X-FAL24	Dissolved	Water	3005A	
680-258431-3	G6M-04-15X-FAL24	Dissolved	Water	3005A	
680-258431-4	G6M-04-22X-FAL24	Dissolved	Water	3005A	
680-258431-5	G6M-04-31X-FAL24	Dissolved	Water	3005A	
680-258431-7	AOC50-RB-01-FAL24	Dissolved	Water	3005A	
MB 680-864201/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-864201/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-258431-1 MS	G6M-02-11X-FAL24	Dissolved	Water	3005A	
680-258431-1 MSD	G6M-02-11X-FAL24	Dissolved	Water	3005A	

Prep Batch: 864202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258431-1	G6M-02-11X-FAL24	Dissolved	Water	3005A	
680-258431-2	G6M-04-02X-FAL24	Dissolved	Water	3005A	
680-258431-3	G6M-04-15X-FAL24	Dissolved	Water	3005A	
680-258431-4	G6M-04-22X-FAL24	Dissolved	Water	3005A	
680-258431-5	G6M-04-31X-FAL24	Dissolved	Water	3005A	
680-258431-7	AOC50-RB-01-FAL24	Dissolved	Water	3005A	

Metals (Continued)

Prep Batch: 864202 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-864202/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-864202/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-258431-1 MS	G6M-02-11X-FAL24	Dissolved	Water	3005A	
680-258431-1 MSD	G6M-02-11X-FAL24	Dissolved	Water	3005A	

Analysis Batch: 864483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258431-1	G6M-02-11X-FAL24	Dissolved	Water	6020A	864201
680-258431-2	G6M-04-02X-FAL24	Dissolved	Water	6020A	864201
680-258431-3	G6M-04-15X-FAL24	Dissolved	Water	6020A	864201
680-258431-4	G6M-04-22X-FAL24	Dissolved	Water	6020A	864201
680-258431-5	G6M-04-31X-FAL24	Dissolved	Water	6020A	864201
680-258431-7	AOC50-RB-01-FAL24	Dissolved	Water	6020A	864201
MB 680-864201/1-A	Method Blank	Total Recoverable	Water	6020A	864201
LCS 680-864201/2-A	Lab Control Sample	Total Recoverable	Water	6020A	864201
680-258431-1 MS	G6M-02-11X-FAL24	Dissolved	Water	6020A	864201
680-258431-1 MSD	G6M-02-11X-FAL24	Dissolved	Water	6020A	864201

Analysis Batch: 864828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258431-2	G6M-04-02X-FAL24	Dissolved	Water	6010C	864202
680-258431-3	G6M-04-15X-FAL24	Dissolved	Water	6010C	864202
680-258431-4	G6M-04-22X-FAL24	Dissolved	Water	6010C	864202
680-258431-5	G6M-04-31X-FAL24	Dissolved	Water	6010C	864202
680-258431-7	AOC50-RB-01-FAL24	Dissolved	Water	6010C	864202
MB 680-864202/1-A	Method Blank	Total Recoverable	Water	6010C	864202
LCS 680-864202/2-A	Lab Control Sample	Total Recoverable	Water	6010C	864202
680-258431-1 MS	G6M-02-11X-FAL24	Dissolved	Water	6010C	864202
680-258431-1 MSD	G6M-02-11X-FAL24	Dissolved	Water	6010C	864202

Analysis Batch: 864914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258431-1	G6M-02-11X-FAL24	Dissolved	Water	6010C	864202

General Chemistry

Analysis Batch: 864303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258431-2	G6M-04-02X-FAL24	Total/NA	Water	9034	
MB 680-864303/1	Method Blank	Total/NA	Water	9034	
LCS 680-864303/2	Lab Control Sample	Total/NA	Water	9034	
LCSD 680-864303/3	Lab Control Sample Dup	Total/NA	Water	9034	
680-258431-2 DU	G6M-04-02X-FAL24	Total/NA	Water	9034	

Analysis Batch: 864519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258431-2	G6M-04-02X-FAL24	Total/NA	Water	2320B-2011	
MB 680-864519/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-864519/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-864519/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

General Chemistry

Analysis Batch: 865306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258431-2	G6M-04-02X-FAL24	Total/NA	Water	9060A	
MB 680-865306/3	Method Blank	Total/NA	Water	9060A	
LCS 680-865306/4	Lab Control Sample	Total/NA	Water	9060A	
LCSD 680-865306/5	Lab Control Sample Dup	Total/NA	Water	9060A	
680-258431-2 DU	G6M-04-02X-FAL24	Total/NA	Water	9060A	

Analysis Batch: 865395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258431-2	G6M-04-02X-FAL24	Total/NA	Water	353.2-1993 R2.0	
MB 680-865395/14	Method Blank	Total/NA	Water	353.2-1993 R2.0	
LCS 680-865395/15	Lab Control Sample	Total/NA	Water	353.2-1993 R2.0	

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258431-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-02-11X-FAL24
Lab Sample ID: 680-258431-1
Date Collected: 11/07/24 16:00
Matrix: Water
Date Received: 11/12/24 09:50

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	865326	11/20/24 15:57	P1C	EET SAV
	Instrument ID: CMSAB									
Dissolved	Prep	3005A			25 mL	25 mL	864202	11/13/24 07:26	RR	EET SAV
Dissolved	Analysis	6010C		1			864914	11/16/24 11:28	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864201	11/13/24 07:26	RR	EET SAV
Dissolved	Analysis	6020A		1			864483	11/13/24 12:47	BWR	EET SAV
	Instrument ID: ICPMSD									

Client Sample ID: G6M-04-02X-FAL24
Lab Sample ID: 680-258431-2
Date Collected: 11/07/24 11:16
Matrix: Water
Date Received: 11/12/24 09:50

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	865326	11/20/24 16:19	P1C	EET SAV
	Instrument ID: CMSAB									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	865006	11/18/24 18:05	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		1	5 mL	5 mL	866182	11/25/24 19:23	BS	EET SAV
	Instrument ID: CICP									
Dissolved	Prep	3005A			25 mL	25 mL	864202	11/13/24 07:31	RR	EET SAV
Dissolved	Analysis	6010C		1			864828	11/15/24 23:45	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864201	11/13/24 07:31	RR	EET SAV
Dissolved	Analysis	6020A		1			864483	11/13/24 13:20	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Analysis	2320B-2011		1			864519	11/13/24 23:53	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	865395	11/19/24 14:45	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	290 mL	290 mL	864303	11/13/24 11:14	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	865306	11/18/24 16:20	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: G6M-04-15X-FAL24
Lab Sample ID: 680-258431-3
Date Collected: 11/07/24 15:00
Matrix: Water
Date Received: 11/12/24 09:50

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	865326	11/20/24 16:42	P1C	EET SAV
	Instrument ID: CMSAB									
Dissolved	Prep	3005A			25 mL	25 mL	864202	11/13/24 07:26	RR	EET SAV
Dissolved	Analysis	6010C		1			864828	11/15/24 23:24	BJB	EET SAV
	Instrument ID: ICPH									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258431-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-04-15X-FAL24
Lab Sample ID: 680-258431-3
Date Collected: 11/07/24 15:00
Matrix: Water
Date Received: 11/12/24 09:50

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	125 mL	864201	11/13/24 07:26	RR	EET SAV
Dissolved	Analysis	6020A		1			864483	11/13/24 13:02	BWR	EET SAV
	Instrument ID: ICPMSD									

Client Sample ID: G6M-04-22X-FAL24
Lab Sample ID: 680-258431-4
Date Collected: 11/07/24 11:05
Matrix: Water
Date Received: 11/12/24 09:50

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	865326	11/20/24 17:05	P1C	EET SAV
	Instrument ID: CMSAB									
Dissolved	Prep	3005A			25 mL	25 mL	864202	11/13/24 07:26	RR	EET SAV
Dissolved	Analysis	6010C		1			864828	11/15/24 23:30	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864201	11/13/24 07:26	RR	EET SAV
Dissolved	Analysis	6020A		1			864483	11/13/24 13:12	BWR	EET SAV
	Instrument ID: ICPMSD									

Client Sample ID: G6M-04-31X-FAL24
Lab Sample ID: 680-258431-5
Date Collected: 11/07/24 12:25
Matrix: Water
Date Received: 11/12/24 09:50

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	865326	11/20/24 17:28	P1C	EET SAV
	Instrument ID: CMSAB									
Dissolved	Prep	3005A			25 mL	25 mL	864202	11/13/24 07:26	RR	EET SAV
Dissolved	Analysis	6010C		1			864828	11/15/24 23:33	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864201	11/13/24 07:26	RR	EET SAV
Dissolved	Analysis	6020A		1			864483	11/13/24 13:15	BWR	EET SAV
	Instrument ID: ICPMSD									

Client Sample ID: G6M-13-03X-FAL24
Lab Sample ID: 680-258431-6
Date Collected: 11/07/24 14:51
Matrix: Water
Date Received: 11/12/24 09:50

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	865326	11/20/24 17:50	P1C	EET SAV
	Instrument ID: CMSAB									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258431-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: AOC50-RB-01-FAL24
Lab Sample ID: 680-258431-7

Date Collected: 11/07/24 11:30
Matrix: Water

Date Received: 11/12/24 09:50

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	865326	11/20/24 14:21	P1C	EET SAV
	Instrument ID: CMSAB									
Dissolved	Prep	3005A			25 mL	25 mL	864202	11/13/24 07:26	RR	EET SAV
Dissolved	Analysis	6010C		1			864828	11/15/24 23:42	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864201	11/13/24 07:26	RR	EET SAV
Dissolved	Analysis	6020A		1			864483	11/13/24 13:18	BWR	EET SAV
	Instrument ID: ICPMSD									

Laboratory References:
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Seres Engineering & Services LLC
Job ID: 680-258431-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2463	09-22-26

Method Summary

Client: Seres Engineering & Services LLC
Job ID: 680-258431-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds (GC/MS)	SW846	EET SAV
RSK-175	Dissolved Gases (GC)	RSK	EET SAV
9056A	Anions, Ion Chromatography	SW846	EET SAV
6010C	Metals (ICP)	SW846	EET SAV
6020A	Metals (ICP/MS)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
353.2-1993 R2.0	Nitrogen, Nitrate-Nitrite	MCAWW	EET SAV
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	EET SAV
9060A	Organic Carbon, Total (TOC)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

						Analytical Test Method	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC					
	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024						46	47	8	9	9	29	7	5	10					
	Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler
1	AOC50-DUP01-FAL24	WG								X	X	X				G6M-04-04X	FD1	94.00	104.00	1
2	AOC50-DUP02-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-07-02X	FD1	22.50	27.50	1
3	AOC50-DUP03-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-13-02X	FD1	115.00	125.00	1
4	AOC50-DUP04-FAL24	WG								X	X	X				G6M-95-20X	FD1	18.00	23.00	1
5	G6M-02-01X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-02-01X	N1	80.00	95.00	1
6	G6M-02-04X-FAL24	WG								X	X	X				G6M-02-04X	N1	90.00	105.00	1
7	G6M-02-06X-FAL24	WG								X	X	X				G6M-02-06X	N1	55.00	65.00	1
8	G6M-02-07X-FAL24	WG								X	X	X				G6M-02-07X	N1	30.00	40.00	1
9	G6M-02-08X-FAL24	WG								X	X	X				G6M-02-08X	N1	60.00	70.00	1
10	G6M-02-11X-FAL24	WG	11-7-24	1600	CS					X	X	X				G6M-02-11X	N1	125.00	135.00	1
11	G6M-02-12X-FAL24	WG								X	X	X				G6M-02-12X	N1	125.00	135.00	1

680-258431 Chain of Custody

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/8/24	800		11/8/24	13:50
	11/8/24	15:47		11/8/24	15:47
	11/11/24	17:15	FedEx	11/11/24	17:15
				11/12/24	0950

Shipping Date / Carrier / Airbill Number
Shipping Date:

Received by Laboratory: *(Signature, Date, Time)* **& condition**
1.9/1.9 1.2/1.2 1.4/1.4

CHAIN-OF-CUSTODY RECORD

Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

							Analytical Test Method	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC						
Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024								46	47	8	9	9	29	7	5	10						
	Sample ID	Matrix	Date	Time	Samp Init.												Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
12	G6M-02-13X-FAL24	WG							X	X	X						G6M-02-13X	N1	110.00	120.00	1	
13	G6M-03-07X-FAL24	WG				X	X	X	X	X	X	X	X	X			G6M-03-07X	N1	80.00	90.00	1	
14	G6M-03-08X-FAL24	WG							X	X	X						G6M-03-08X	N1	125.00	140.00	1	
15	G6M-03-10X-FAL24	WG							X	X	X						G6M-03-10X	N1	120.00	135.00	1	
16	G6M-04-01X-FAL24	WG							X	X	X						G6M-04-01X	N1	82.00	92.00	1	
17	G6M-04-02X-FAL24	WG	11-7-24	1116	SG	X	X	X	X	X	X	X	X	X			G6M-04-02X	N1	80.00	90.00	1	
18	G6M-04-03X-FAL24	WG				X	X	X	X	X	X	X	X	X			G6M-04-03X	N1	85.00	95.00	1	
19	G6M-04-04X-FAL24	WG							X	X	X						G6M-04-04X	N1	94.00	104.00	1	
20	G6M-04-05X-FAL24	WG									X						G6M-04-05X	N1	100.00	110.00	1	
21	G6M-04-06X-FAL24	WG							X	X	X						G6M-04-06X	N1	95.00	136.00	1	
22	G6M-04-07X-FAL24	WG				X	X	X	X	X	X	X	X	X			G6M-04-07X	N1	120.00	130.00	1	

Relinquished by: *(Signature)*	Date	Time
	11/8/24	800
	11/8/24	15:47
	11/11/24	17:15

Received by: *(Signature)*	Date	Time
	11/8/24	15:50
	11/8/24	15:47
Fedex	11/11/24	17:15
	11/12/24	0950

Shipping Date / Carrier / Airbill Number
Shipping Date:
Received by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC: Ship to:	
WBS Code:		

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

						Analytical Test Method	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC						
	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024						46	47	8	9	9	29	7	5	10						
	Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
23	G6M-04-09X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-04-09X	N1	55.00	65.00	1	
24	G6M-04-10A-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-04-10A	MS1	30.00	40.00	1	
25	G6M-04-10A-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-04-10A	N1	30.00	40.00	1	
26	G6M-04-10A-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-04-10A	SD1	30.00	40.00	1	
27	G6M-04-10X-FAL24	WG										X				G6M-04-10X	N1	52.00	62.00	1	
28	G6M-04-11X-FAL24	WG								X	X	X				G6M-04-11X	N1	35.00	45.00	1	
29	G6M-04-13X-FAL24	WG										X				G6M-04-13X	N1	30.00	40.00	1	
30	G6M-04-14X-FAL24	WG								X	X	X				G6M-04-14X	N1	80.00	90.00	1	
31	G6M-04-15X-FAL24	WG	11-7-24	1500	DC					X	X	X				G6M-04-15X	N1	70.00	80.00	1	
32	G6M-04-22X-FAL24	WG	11-7-24	1105	DC					X	X	X				G6M-04-22X	N1	74.00	84.00	1	
33	G6M-04-31X-FAL24	WG	11-7-24	1225	DC					X	X	X				G6M-04-31X	N1	68.00	78.00	1	

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/8/24	800		11/8/24	13:50
	11/8/24	15:47		11/8/24	15:47
	11/11/24	17:15	FedEx	11/11/24	17:15
				11/12/24	0950

Shipping Date / Carrier / Airbill Number
Shipping Date:

Received by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

						Analytical Test Method	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC							
	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024						46	47	8	9	9	29	7	5	10							
	Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments	
34	G6M-07-01X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-07-01X	N1	78.00	98.00	1		
35	G6M-07-02X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-07-02X	N1	22.50	27.50	1		
36	G6M-13-01X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-13-01X	N1	125.00	135.00	1		
37	G6M-13-02X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-13-02X	N1	115.00	125.00	1		
38	G6M-13-03X-FAL24	WG	11-7-24	1451	SC							X				G6M-13-03X	N1	80.00	90.00	1		
39	G6M-13-04X-FAL24	WG								X	X	X				G6M-13-04X	N1	125.00	135.00	1		
40	G6M-13-05X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-13-05X	N1	45.00	55.00	1		
41	G6M-13-06X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-13-06X	N1	50.00	60.00	1		
42	G6M-95-19X-FAL24	WG										X				G6M-95-19X	N1	48.00	58.00	1		
43	G6M-95-20X-FAL24	WG								X	X	X				G6M-95-20X	N1	18.00	23.00	1		
44	G6M-97-05B-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-97-05B	N1	130.00	135.00	1		

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
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	11/8/24	15:47		11/8/24	15:47
	11/11/24	17:15	FedEx	11/11/24	17:15
				11/12/24	0950

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CHAIN-OF-CUSTODY RECORD

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Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
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Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						46	47	8	9	9	29	7	5	10						
45	G6M-97-28X-FAL24	WG							X	X					G6M-97-28X	N1	100.00	105.00	1	
46	MW-3-FAL24	WG							X	X	X				MW-3	MS1	126.00	136.00	1	
47	MW-3-FAL24	WG							X	X	X				MW-3	N1	126.00	136.00	1	
48	MW-3-FAL24	WG							X	X	X				MW-3	SD1	126.00	136.00	1	
49	MW-7-FAL24	WG							X	X	X				MW-7	N1	6.58	135.00	1	
50	XSA-12-95X-FAL24	WG							X	X	X				XSA-12-95X	N1	120.00	130.00	1	
51	XSA-12-96X-FAL24	WG							X	X	X				XSA-12-96X	N1	120.00	130.00	1	
52	XSA-12-97X-FAL24	WG							X	X	X				XSA-12-97X	N1	120.00	130.00	1	
53	XSA-12-98X-FAL24	WG							X	X	X				XSA-12-98X	N1	60.00	70.00	1	
54	AOC50-RB-01-FAL24	WG	11-7-24	1130	DC				X	X	X									
55																				

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
				11/8/24	13:50
	11/8/24	15:47		11/8/24	15:47
	11/11/24	17:15	FedEx	11/11/24	17:15
				11/12/24	0950

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COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
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		Analytical Test Method	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC							
	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024		46	47	8	9	9	29	7	5	10							
	Sample ID	Matrix	Date	Time	Samp Init.										Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
56																				
57																				
58																				
59																				
60																				
61																				
62																				
63																				
64																				
65																				
66																				

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
				11/12/24	0950

Shipping Date / Carrier / Airbill Number
Shipping Date:

Received by Laboratory: *(Signature, Date, Time)* **& condition**

ENV.COC_Field
October 16, 2024

Login Sample Receipt Checklist

Client: Seres Engineering & Services LLC

Job Number: 680-258431-1

Login Number: 258431
List Number: 1
Creator: Johnson, Corey M

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Heather Levesque
Seres Engineering & Services LLC
669 Marina Drive
Suite B7
Charleston, South Carolina 29492

Generated 1/30/2025 12:17:13 PM Revision 1

JOB DESCRIPTION

Seres-Arcadis JV, LTM, AOC 50, Fall 2024

JOB NUMBER

680-258683-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

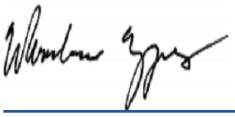
myEOL

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
1/30/2025 12:17:13 PM
Revision 1

Authorized for release by
Woodrow Eggers, EDD Analyst (IT)
woodrow.eggers@et.eurofinsus.com
Designee for
Jerry Lanier, Project Manager I
Jerry.Lanier@et.eurofinsus.com
(912)250-0281

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

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.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-258683-1	AOC50-DUP02-FAL24	Water	11/12/24 11:20	11/15/24 10:11
680-258683-2	AOC50-DUP04-FAL24	Water	11/12/24 09:40	11/15/24 10:11
680-258683-3	G6M-02-01X-FAL24	Water	11/08/24 13:20	11/15/24 10:11
680-258683-4	G6M-02-04X-FAL24	Water	11/12/24 14:20	11/15/24 10:11
680-258683-5	G6M-02-06X-FAL24	Water	11/12/24 15:30	11/15/24 10:11
680-258683-6	G6M-02-07X-FAL24	Water	11/12/24 14:00	11/15/24 10:11
680-258683-7	G6M-02-12X-FAL24	Water	11/08/24 12:00	11/15/24 10:11
680-258683-8	G6M-02-13X-FAL24	Water	11/12/24 15:50	11/15/24 10:11
680-258683-9	G6M-03-08X-FAL24	Water	11/08/24 13:55	11/15/24 10:11
680-258683-10	G6M-04-01X-FAL24	Water	11/08/24 14:50	11/15/24 10:11
680-258683-11	G6M-04-05X-FAL24	Water	11/08/24 15:05	11/15/24 10:11
680-258683-12	G6M-04-06X-FAL24	Water	11/11/24 14:30	11/15/24 10:11
680-258683-13	G6M-04-07X-FAL24	Water	11/11/24 11:10	11/15/24 10:11
680-258683-14	G6M-04-09X-FAL24	Water	11/12/24 10:25	11/15/24 10:11
680-258683-15	G6M-04-10A-FAL24	Water	11/08/24 10:10	11/15/24 10:11
680-258683-16	G6M-04-10X-FAL24	Water	11/08/24 15:20	11/15/24 10:11
680-258683-17	G6M-04-13X-FAL24	Water	11/12/24 13:30	11/15/24 10:11
680-258683-18	G6M-04-14X-FAL24	Water	11/11/24 12:55	11/15/24 10:11
680-258683-19	G6M-07-01X-FAL24	Water	11/08/24 10:55	11/15/24 10:11
680-258683-20	G6M-07-02X-FAL24	Water	11/12/24 11:20	11/15/24 10:11
680-258683-21	G6M-13-01X-FAL24	Water	11/12/24 10:45	11/15/24 10:11
680-258683-22	G6M-13-04X-FAL24	Water	11/11/24 15:45	11/15/24 10:11
680-258683-23	G6M-13-05X-FAL24	Water	11/11/24 13:50	11/15/24 10:11
680-258683-24	G6M-13-06X-FAL24	Water	11/11/24 15:25	11/15/24 10:11
680-258683-25	G6M-95-19X-FAL24	Water	11/12/24 14:45	11/15/24 10:11
680-258683-26	G6M-95-20X-FAL24	Water	11/12/24 09:40	11/15/24 10:11
680-258683-27	G6M-97-05B-FAL24	Water	11/11/24 15:25	11/15/24 10:11
680-258683-28	G6M-97-28X-FAL24	Water	11/12/24 12:30	11/15/24 10:11
680-258683-29	MW-3-FAL24	Water	11/12/24 11:00	11/15/24 10:11
680-258683-30	MW-7-FAL24	Water	11/12/24 15:30	11/15/24 10:11
680-258683-31	AOC50-RB-02-FAL24	Water	11/08/24 14:00	11/15/24 10:11
680-258683-32	AOC50-RB-03-FAL24	Water	11/11/24 16:00	11/15/24 10:11
680-258683-33	AOC50-RB-04-FAL24	Water	11/12/24 12:20	11/15/24 10:11
680-258683-34	Trip Blank	Water	11/12/24 00:00	11/15/24 10:11

Job Narrative
680-258683-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 11/15/2024 10:11 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 0.2°C, 0.3°C, 0.3°C, 0.6°C, 0.8°C and 1.3°C.

Receipt Exceptions
Received sample G6M-04-10X-FAL24 which is not filled out on COC - logged per containers

GC/MS VOA
Method 8260D_DOD5: The initial calibration verification (ICV) analyzed in batch 680-864565 was outside method criteria for the following analyte(s): Vinyl acetate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-865326 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-865326 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The initial calibration verification (ICV) analyzed in batch 680-865242 was outside method criteria for the following analyte(s): Vinyl acetate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-865335 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-865335 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-865335 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 8260D_DOD5: The continuing calibration verification closing (CCVC) associated with batch 680-865335 recovered outside acceptance criteria, low biased, for Vinyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-865582 recovered above the upper control limit for Trichlorofluoromethane and Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Job ID: 680-258683-1 (Continued) Eurofins Savannah

Method 8260D_DOD5: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-865582 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The closing continuing calibration verification (CCVC) associated with batch 680-865582 recovered above the upper control limit for Trichlorofluoromethane and Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-866016 recovered above the upper control limit for Trichlorofluoromethane and Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-866016 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The method blank for 680-866016 contained 1,4-Dichlorobenzene above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-866305 recovered above the upper control limit for Chloroform and Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-866305 recovered outside acceptance criteria, low biased, for Bromomethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D_DOD5: The closing continuing calibration verification (CCVC) associated with batch 680-866305 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The continuing calibration verification closing (CCVC) associated with batch 680-866305 recovered outside acceptance criteria, low biased, for Bromomethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D_DOD5: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-866305 recovered outside control limits for the following analytes: Chloroethane and Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The initial calibration verification (ICV) analyzed in batch 680-863946 was outside method criteria for the following analyte(s): Vinyl acetate. 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 VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
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.

General Chemistry
Method 353.2_Pres: The instrument blank for analytical batch 680-865583 contained nox greater than the method detection limit (MDL), and were not reanalyzed because result is less than 1/2 the RL. The data have been qualified and reported.

Method 353.2_Pres: The method blank for analytical batch 680-865583 contained nox above the method detection limit (MDL).

Job ID: 680-258683-1 (Continued) Eurofins Savannah

Associated samples were not re-analyzed because the method blank results were less than 1/2 the reporting limit (RL).

Method 353.2_Pres: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-865654 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 9034: The following samples were received outside of holding time: G6M-02-01X-FAL24 (680-258683-3), G6M-04-10A-FAL24 (680-258683-15), G6M-04-10A-FAL24 (680-258683-15[MS]), G6M-04-10A-FAL24 (680-258683-15[MSD]) and G6M-07-01X-FAL24 (680-258683-19).

Method 9034: Certified Reference Materials (CRM) and Standard Reference Materials (SRM) are not available for potassium iodate. Standards from an authoritative source have been used for calibration. The initial calibrations have been verified with a standard from an authoritative, independent, second source.

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

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: AOC50-DUP02-FAL24
Date Collected: 11/12/24 11:20
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/21/24 18:04	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 18:04	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/21/24 18:04	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 18:04	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 18:04	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/21/24 18:04	1
Bromomethane	10	U	20	10	3.7	ug/L		11/21/24 18:04	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/21/24 18:04	1
n-Butylbenzene	2.0	U M	2.5	2.0	0.52	ug/L		11/21/24 18:04	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/21/24 18:04	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 18:04	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 18:04	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/21/24 18:04	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/21/24 18:04	1
Chloroethane	10	U	20	10	4.6	ug/L		11/21/24 18:04	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 18:04	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/21/24 18:04	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/21/24 18:04	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/21/24 18:04	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/21/24 18:04	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/21/24 18:04	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 18:04	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 18:04	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 18:04	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 18:04	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 18:04	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 18:04	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 18:04	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 18:04	1
cis-1,2-Dichloroethene	**0.49**	**J**	2.0	1.0	0.25	ug/L		11/21/24 18:04	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 18:04	1
1,2-Dichloroethene, Total	**0.49**	**J**	2.0	1.0	0.37	ug/L		11/21/24 18:04	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 18:04	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/21/24 18:04	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 18:04	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/21/24 18:04	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/21/24 18:04	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 18:04	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/21/24 18:04	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/21/24 18:04	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/21/24 18:04	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/21/24 18:04	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 18:04	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/21/24 18:04	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/21/24 18:04	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/21/24 18:04	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/21/24 18:04	1
Naphthalene	**3.6**	**J**	10	5.0	2.4	ug/L		11/21/24 18:04	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/21/24 18:04	1

Client Sample ID: AOC50-DUP02-FAL24
Lab Sample ID: 680-258683-1

Date Collected: 11/12/24 11:20
Matrix: Water
Date Received: 11/15/24 10:11

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 18:04	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 18:04	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/21/24 18:04	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/21/24 18:04	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 18:04	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/21/24 18:04	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/21/24 18:04	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/21/24 18:04	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/21/24 18:04	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/21/24 18:04	1
Trichlorofluoromethane	1.0	U Q	2.0	1.0	0.33	ug/L		11/21/24 18:04	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/21/24 18:04	1
1,2,4-Trimethylbenzene	**1.1**	**J**	2.0	1.0	0.43	ug/L		11/21/24 18:04	1
1,3,5-Trimethylbenzene	**0.34**	**J**	2.0	1.0	0.28	ug/L		11/21/24 18:04	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/21/24 18:04	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/21/24 18:04	1
o-Xylene	**0.33**	**J**	2.0	1.0	0.26	ug/L		11/21/24 18:04	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 18:04	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*89 - 112*		*11/21/24 18:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*81 - 118*		*11/21/24 18:04*	*1*
4-Bromofluorobenzene (Surr)	*108*		*85 - 114*		*11/21/24 18:04*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 119*		*11/21/24 18:04*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**0.92**	**J M**	1.1	0.76	0.30	ug/L		11/18/24 18:34	1
Ethylene	0.71	U	1.0	0.71	0.31	ug/L		11/18/24 18:34	1
Methane	**13000**		1.2	1.2	0.57	ug/L		11/18/24 18:34	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U M	1.5	1.0	0.40	mg/L		12/05/24 16:09	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**84000**		100	50	20	ug/L		11/18/24 23:55	1
Manganese	**2500**		10	5.0	1.3	ug/L		11/18/24 23:55	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**65**		5.0	3.0	0.86	ug/L		11/18/24 16:24	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**66**		5.5	5.0	2.2	mg/L		11/19/24 21:36	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	**0.026**	**J**	0.10	0.025	0.010	mg/L		11/20/24 16:10	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: AOC50-DUP02-FAL24
Lab Sample ID: 680-258683-1
Date Collected: 11/12/24 11:20
Matrix: Water
Date Received: 11/15/24 10:11

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	1.7	J	2.4	1.6	0.81	mg/L		11/18/24 13:25	1
Total Organic Carbon (SW846 9060A)	52		1.0	1.0	0.50	mg/L		11/25/24 18:18	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: AOC50-DUP04-FAL24
Date Collected: 11/12/24 09:40
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/21/24 18:26	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 18:26	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/21/24 18:26	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 18:26	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 18:26	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/21/24 18:26	1
Bromomethane	10	U	20	10	3.7	ug/L		11/21/24 18:26	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/21/24 18:26	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/21/24 18:26	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/21/24 18:26	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 18:26	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 18:26	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/21/24 18:26	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/21/24 18:26	1
Chloroethane	10	U	20	10	4.6	ug/L		11/21/24 18:26	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 18:26	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/21/24 18:26	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/21/24 18:26	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/21/24 18:26	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/21/24 18:26	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/21/24 18:26	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 18:26	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 18:26	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 18:26	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 18:26	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 18:26	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 18:26	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 18:26	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 18:26	1
cis-1,2-Dichloroethene	**0.96**	**J**	2.0	1.0	0.25	ug/L		11/21/24 18:26	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 18:26	1
1,2-Dichloroethene, Total	**0.96**	**J**	2.0	1.0	0.37	ug/L		11/21/24 18:26	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 18:26	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/21/24 18:26	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 18:26	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/21/24 18:26	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/21/24 18:26	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 18:26	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/21/24 18:26	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/21/24 18:26	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/21/24 18:26	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/21/24 18:26	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 18:26	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/21/24 18:26	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/21/24 18:26	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/21/24 18:26	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/21/24 18:26	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/21/24 18:26	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/21/24 18:26	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: AOC50-DUP04-FAL24
Date Collected: 11/12/24 09:40
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 18:26	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 18:26	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/21/24 18:26	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/21/24 18:26	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 18:26	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/21/24 18:26	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/21/24 18:26	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/21/24 18:26	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/21/24 18:26	1
Trichloroethene	**0.27**	**J**	1.0	0.50	0.20	ug/L		11/21/24 18:26	1
Trichlorofluoromethane	1.0	U Q	2.0	1.0	0.33	ug/L		11/21/24 18:26	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/21/24 18:26	1
1,2,4-Trimethylbenzene	**0.49**	**J**	2.0	1.0	0.43	ug/L		11/21/24 18:26	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/21/24 18:26	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/21/24 18:26	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/21/24 18:26	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 18:26	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 18:26	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*89 - 112*		*11/21/24 18:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*81 - 118*		*11/21/24 18:26*	*1*
4-Bromofluorobenzene (Surr)	*108*		*85 - 114*		*11/21/24 18:26*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 119*		*11/21/24 18:26*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**15000**		100	50	20	ug/L		11/21/24 17:10	1
Manganese	**1100**		10	5.0	1.3	ug/L		11/21/24 17:10	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**32**		5.0	3.0	0.86	ug/L		11/20/24 13:36	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-02-01X-FAL24
Date Collected: 11/08/24 13:20
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/21/24 16:56	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 16:56	1
Bromobenzene	**0.33**	**J**	1.0	0.50	0.24	ug/L		11/21/24 16:56	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 16:56	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 16:56	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/21/24 16:56	1
Bromomethane	10	U	20	10	3.7	ug/L		11/21/24 16:56	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/21/24 16:56	1
n-Butylbenzene	**0.83**	**J**	2.5	2.0	0.52	ug/L		11/21/24 16:56	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/21/24 16:56	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 16:56	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 16:56	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/21/24 16:56	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/21/24 16:56	1
Chloroethane	**6.1**	**J**	20	10	4.6	ug/L		11/21/24 16:56	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 16:56	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/21/24 16:56	1
2-Chlorotoluene	0.50	U M	1.0	0.50	0.25	ug/L		11/21/24 16:56	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/21/24 16:56	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/21/24 16:56	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/21/24 16:56	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 16:56	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 16:56	1
1,2-Dichlorobenzene	**0.42**	**J**	2.0	1.0	0.31	ug/L		11/21/24 16:56	1
1,3-Dichlorobenzene	**0.55**	**J**	2.0	1.0	0.31	ug/L		11/21/24 16:56	1
1,4-Dichlorobenzene	**0.61**	**J**	2.0	1.0	0.31	ug/L		11/21/24 16:56	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 16:56	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 16:56	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 16:56	1
cis-1,2-Dichloroethene	**31**		2.0	1.0	0.25	ug/L		11/21/24 16:56	1
trans-1,2-Dichloroethene	**1.7**	**J**	2.0	1.0	0.34	ug/L		11/21/24 16:56	1
1,2-Dichloroethene, Total	**33**		2.0	1.0	0.37	ug/L		11/21/24 16:56	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 16:56	1
1,2-Dichloropropane	**0.46**	**J**	1.0	0.50	0.22	ug/L		11/21/24 16:56	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 16:56	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/21/24 16:56	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/21/24 16:56	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 16:56	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/21/24 16:56	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/21/24 16:56	1
Hexachlorobutadiene	**1.2**	**J**	5.0	1.0	0.22	ug/L		11/21/24 16:56	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/21/24 16:56	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 16:56	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/21/24 16:56	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/21/24 16:56	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/21/24 16:56	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/21/24 16:56	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/21/24 16:56	1
N-Propylbenzene	**0.43**	**J**	2.0	1.0	0.41	ug/L		11/21/24 16:56	1

Client Sample ID: G6M-02-01X-FAL24

Date Collected: 11/08/24 13:20
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 16:56	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 16:56	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/21/24 16:56	1
Tetrachloroethene	**38**		2.0	1.0	0.35	ug/L		11/21/24 16:56	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 16:56	1
1,2,3-Trichlorobenzene	**1.1**	**J**	5.0	2.0	0.81	ug/L		11/21/24 16:56	1
1,2,4-Trichlorobenzene	**0.95**	**J**	5.0	2.0	0.53	ug/L		11/21/24 16:56	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/21/24 16:56	1
1,1,2-Trichloroethane	1.0	U M	2.0	1.0	0.32	ug/L		11/21/24 16:56	1
Trichloroethene	**24**		1.0	0.50	0.20	ug/L		11/21/24 16:56	1
Trichlorofluoromethane	1.0	U Q	2.0	1.0	0.33	ug/L		11/21/24 16:56	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/21/24 16:56	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 16:56	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/21/24 16:56	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/21/24 16:56	1
Vinyl chloride	**42**		2.0	1.0	0.40	ug/L		11/21/24 16:56	1
o-Xylene	**0.27**	**J**	2.0	1.0	0.26	ug/L		11/21/24 16:56	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 16:56	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*89 - 112*		*11/21/24 16:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*81 - 118*		*11/21/24 16:56*	*1*
4-Bromofluorobenzene (Surr)	*110*		*85 - 114*		*11/21/24 16:56*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*11/21/24 16:56*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**2.7**		1.1	0.76	0.30	ug/L		11/18/24 19:23	1
Ethylene	**27**		1.0	0.71	0.31	ug/L		11/18/24 19:23	1
Methane	**22000**		1.2	1.2	0.57	ug/L		11/18/24 19:23	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	**7.5**		1.5	1.0	0.40	mg/L		12/05/24 18:50	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**32000**		100	50	20	ug/L		11/18/24 23:51	1
Manganese	**1500**		10	5.0	1.3	ug/L		11/18/24 23:51	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**260**		5.0	3.0	0.86	ug/L		11/18/24 16:16	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**160**		5.5	5.0	2.2	mg/L		11/19/24 00:06	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	**0.027**	**J**	0.10	0.025	0.010	mg/L		11/20/24 16:12	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-02-01X-FAL24
Lab Sample ID: 680-258683-3
Date Collected: 11/08/24 13:20
Matrix: Water
Date Received: 11/15/24 10:11

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	1.6	U H	2.4	1.6	0.81	mg/L		11/18/24 13:25	1
Total Organic Carbon (SW846 9060A)	**3.6**		1.0	1.0	0.50	mg/L		11/25/24 18:37	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-02-04X-FAL24
Date Collected: 11/12/24 14:20
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/21/24 18:49	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 18:49	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/21/24 18:49	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 18:49	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 18:49	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/21/24 18:49	1
Bromomethane	10	U	20	10	3.7	ug/L		11/21/24 18:49	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/21/24 18:49	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/21/24 18:49	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/21/24 18:49	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 18:49	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 18:49	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/21/24 18:49	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/21/24 18:49	1
Chloroethane	10	U	20	10	4.6	ug/L		11/21/24 18:49	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 18:49	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/21/24 18:49	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/21/24 18:49	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/21/24 18:49	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/21/24 18:49	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/21/24 18:49	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 18:49	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 18:49	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 18:49	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 18:49	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 18:49	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 18:49	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 18:49	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/21/24 18:49	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 18:49	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 18:49	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/21/24 18:49	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 18:49	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/21/24 18:49	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 18:49	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/21/24 18:49	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/21/24 18:49	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 18:49	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/21/24 18:49	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/21/24 18:49	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/21/24 18:49	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/21/24 18:49	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 18:49	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/21/24 18:49	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/21/24 18:49	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/21/24 18:49	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/21/24 18:49	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/21/24 18:49	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/21/24 18:49	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-02-04X-FAL24
Date Collected: 11/12/24 14:20
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 18:49	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 18:49	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/21/24 18:49	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/21/24 18:49	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 18:49	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/21/24 18:49	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/21/24 18:49	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/21/24 18:49	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/21/24 18:49	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/21/24 18:49	1
Trichlorofluoromethane	1.0	U Q	2.0	1.0	0.33	ug/L		11/21/24 18:49	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/21/24 18:49	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 18:49	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/21/24 18:49	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/21/24 18:49	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/21/24 18:49	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 18:49	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 18:49	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*89 - 112*		*11/21/24 18:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*81 - 118*		*11/21/24 18:49*	*1*
4-Bromofluorobenzene (Surr)	*111*		*85 - 114*		*11/21/24 18:49*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 119*		*11/21/24 18:49*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**38000**		100	50	20	ug/L		11/18/24 23:53	1
Manganese	**1900**		10	5.0	1.3	ug/L		11/18/24 23:53	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**420**		5.0	3.0	0.86	ug/L		11/18/24 16:22	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-02-06X-FAL24
Date Collected: 11/12/24 15:30
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/21/24 19:12	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 19:12	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/21/24 19:12	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 19:12	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 19:12	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/21/24 19:12	1
Bromomethane	10	U	20	10	3.7	ug/L		11/21/24 19:12	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/21/24 19:12	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/21/24 19:12	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/21/24 19:12	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 19:12	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 19:12	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/21/24 19:12	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/21/24 19:12	1
Chloroethane	10	U	20	10	4.6	ug/L		11/21/24 19:12	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 19:12	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/21/24 19:12	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/21/24 19:12	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/21/24 19:12	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/21/24 19:12	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/21/24 19:12	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 19:12	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 19:12	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 19:12	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 19:12	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 19:12	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 19:12	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 19:12	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 19:12	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 19:12	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 19:12	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/21/24 19:12	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 19:12	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/21/24 19:12	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 19:12	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/21/24 19:12	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/21/24 19:12	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 19:12	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/21/24 19:12	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/21/24 19:12	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/21/24 19:12	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/21/24 19:12	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 19:12	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/21/24 19:12	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/21/24 19:12	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/21/24 19:12	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/21/24 19:12	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/21/24 19:12	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/21/24 19:12	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-02-06X-FAL24
Date Collected: 11/12/24 15:30
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 19:12	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 19:12	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/21/24 19:12	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/21/24 19:12	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 19:12	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/21/24 19:12	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/21/24 19:12	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/21/24 19:12	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/21/24 19:12	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/21/24 19:12	1
Trichlorofluoromethane	1.0	U Q	2.0	1.0	0.33	ug/L		11/21/24 19:12	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/21/24 19:12	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 19:12	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/21/24 19:12	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/21/24 19:12	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/21/24 19:12	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 19:12	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 19:12	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*89 - 112*		*11/21/24 19:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*81 - 118*		*11/21/24 19:12*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*11/21/24 19:12*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 119*		*11/21/24 19:12*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/18/24 23:29	1
Manganese	5.0	U	10	5.0	1.3	ug/L		11/18/24 23:29	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**1.5**	**J**	5.0	3.0	0.86	ug/L		11/18/24 16:00	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-02-07X-FAL24
Date Collected: 11/12/24 14:00
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 14:48	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 14:48	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 14:48	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 14:48	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 14:48	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 14:48	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 14:48	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 14:48	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 14:48	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 14:48	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 14:48	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 14:48	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 14:48	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 14:48	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 14:48	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 14:48	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 14:48	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 14:48	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 14:48	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 14:48	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 14:48	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 14:48	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 14:48	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 14:48	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 14:48	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 14:48	1
Dichlorodifluoromethane	1.0	U M	2.0	1.0	0.36	ug/L		11/20/24 14:48	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 14:48	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 14:48	1
cis-1,2-Dichloroethene	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 14:48	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 14:48	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 14:48	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 14:48	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 14:48	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 14:48	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 14:48	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 14:48	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 14:48	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 14:48	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 14:48	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 14:48	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 14:48	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 14:48	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 14:48	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 14:48	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 14:48	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 14:48	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 14:48	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 14:48	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-02-07X-FAL24
Date Collected: 11/12/24 14:00
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 14:48	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 14:48	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 14:48	1
Tetrachloroethene	**2.8**		2.0	1.0	0.35	ug/L		11/20/24 14:48	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 14:48	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 14:48	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 14:48	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 14:48	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 14:48	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 14:48	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 14:48	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 14:48	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 14:48	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 14:48	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 14:48	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 14:48	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 14:48	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 14:48	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*89 - 112*		*11/20/24 14:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*81 - 118*		*11/20/24 14:48*	*1*
4-Bromofluorobenzene (Surr)	*102*		*85 - 114*		*11/20/24 14:48*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*11/20/24 14:48*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/21/24 16:48	1
Manganese	**4.9**	**J**	10	5.0	1.3	ug/L		11/21/24 16:48	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**0.98**	**J**	5.0	3.0	0.86	ug/L		11/20/24 13:26	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-02-12X-FAL24
Date Collected: 11/08/24 12:00
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 15:09	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 15:09	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 15:09	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 15:09	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 15:09	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 15:09	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 15:09	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 15:09	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 15:09	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 15:09	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 15:09	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 15:09	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 15:09	1
Chlorobenzene	0.50	U M	1.0	0.50	0.15	ug/L		11/20/24 15:09	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 15:09	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 15:09	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 15:09	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 15:09	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 15:09	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 15:09	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 15:09	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:09	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 15:09	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 15:09	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 15:09	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 15:09	1
Dichlorodifluoromethane	1.0	U M	2.0	1.0	0.36	ug/L		11/20/24 15:09	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:09	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 15:09	1
cis-1,2-Dichloroethene	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 15:09	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 15:09	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 15:09	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:09	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 15:09	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 15:09	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 15:09	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 15:09	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 15:09	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 15:09	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 15:09	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 15:09	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 15:09	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 15:09	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 15:09	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 15:09	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 15:09	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 15:09	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 15:09	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 15:09	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-02-12X-FAL24
Date Collected: 11/08/24 12:00
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 15:09	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 15:09	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 15:09	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 15:09	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 15:09	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 15:09	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 15:09	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 15:09	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 15:09	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 15:09	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:09	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 15:09	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 15:09	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 15:09	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 15:09	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 15:09	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 15:09	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 15:09	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*89 - 112*		*11/20/24 15:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*11/20/24 15:09*	*1*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*		*11/20/24 15:09*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 119*		*11/20/24 15:09*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**32000**		100	50	20	ug/L		11/18/24 23:57	1
Manganese	**4700**		10	5.0	1.3	ug/L		11/18/24 23:57	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**610**		5.0	3.0	0.86	ug/L		11/18/24 16:26	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-02-13X-FAL24
Date Collected: 11/12/24 15:50
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 15:31	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 15:31	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 15:31	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 15:31	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 15:31	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 15:31	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 15:31	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 15:31	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 15:31	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 15:31	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 15:31	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 15:31	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 15:31	1
Chlorobenzene	**0.36**	**J**	1.0	0.50	0.15	ug/L		11/20/24 15:31	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 15:31	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 15:31	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 15:31	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 15:31	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 15:31	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 15:31	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 15:31	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:31	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 15:31	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 15:31	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 15:31	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 15:31	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 15:31	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:31	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 15:31	1
cis-1,2-Dichloroethene	**0.30**	**J**	2.0	1.0	0.25	ug/L		11/20/24 15:31	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 15:31	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 15:31	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:31	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 15:31	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 15:31	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 15:31	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 15:31	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 15:31	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 15:31	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 15:31	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 15:31	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 15:31	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 15:31	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 15:31	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 15:31	1
4-Methyl-2-pentanone (MIBK)	10	U M	20	10	2.7	ug/L		11/20/24 15:31	1
Methyl tert-butyl ether	**0.97**	**J**	5.0	2.0	0.81	ug/L		11/20/24 15:31	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 15:31	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 15:31	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-02-13X-FAL24

Date Collected: 11/12/24 15:50
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-8

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 15:31	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 15:31	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 15:31	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 15:31	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 15:31	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 15:31	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 15:31	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 15:31	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 15:31	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 15:31	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:31	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 15:31	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 15:31	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 15:31	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 15:31	1
Vinyl chloride	1.0	U M	2.0	1.0	0.40	ug/L		11/20/24 15:31	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 15:31	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 15:31	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*89 - 112*		*11/20/24 15:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*		*11/20/24 15:31*	*1*
4-Bromofluorobenzene (Surr)	*97*		*85 - 114*		*11/20/24 15:31*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*11/20/24 15:31*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**12000**		100	50	20	ug/L		11/21/24 17:13	1
Manganese	**15000**		10	5.0	1.3	ug/L		11/21/24 17:13	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**280**		5.0	3.0	0.86	ug/L		11/20/24 13:38	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-03-08X-FAL24
Date Collected: 11/08/24 13:55
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 15:53	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 15:53	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 15:53	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 15:53	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 15:53	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 15:53	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 15:53	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 15:53	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 15:53	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 15:53	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 15:53	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 15:53	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 15:53	1
Chlorobenzene	**0.33**	**J**	1.0	0.50	0.15	ug/L		11/20/24 15:53	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 15:53	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 15:53	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 15:53	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 15:53	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 15:53	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 15:53	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 15:53	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:53	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 15:53	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 15:53	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 15:53	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 15:53	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 15:53	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:53	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 15:53	1
cis-1,2-Dichloroethene	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 15:53	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 15:53	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 15:53	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:53	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 15:53	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 15:53	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 15:53	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 15:53	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 15:53	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 15:53	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 15:53	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 15:53	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 15:53	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 15:53	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 15:53	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 15:53	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 15:53	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 15:53	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 15:53	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 15:53	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-03-08X-FAL24
Date Collected: 11/08/24 13:55
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 15:53	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 15:53	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 15:53	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 15:53	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 15:53	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 15:53	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 15:53	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 15:53	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 15:53	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 15:53	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 15:53	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 15:53	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 15:53	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 15:53	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 15:53	1
Vinyl chloride	1.0	U M	2.0	1.0	0.40	ug/L		11/20/24 15:53	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 15:53	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 15:53	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*89 - 112*		*11/20/24 15:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*81 - 118*		*11/20/24 15:53*	*1*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*		*11/20/24 15:53*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*11/20/24 15:53*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**9200**		100	50	20	ug/L		11/21/24 17:19	1
Manganese	**9000**		10	5.0	1.3	ug/L		11/21/24 17:19	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**530**		5.0	3.0	0.86	ug/L		11/20/24 13:42	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-04-01X-FAL24
Date Collected: 11/08/24 14:50
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 16:14	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 16:14	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 16:14	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 16:14	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 16:14	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 16:14	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 16:14	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 16:14	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 16:14	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 16:14	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 16:14	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 16:14	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 16:14	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 16:14	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 16:14	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 16:14	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 16:14	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 16:14	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 16:14	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 16:14	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 16:14	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:14	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 16:14	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 16:14	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 16:14	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 16:14	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 16:14	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:14	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 16:14	1
cis-1,2-Dichloroethene	**0.41**	**J**	2.0	1.0	0.25	ug/L		11/20/24 16:14	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 16:14	1
1,2-Dichloroethene, Total	**0.41**	**J**	2.0	1.0	0.37	ug/L		11/20/24 16:14	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:14	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 16:14	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 16:14	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 16:14	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 16:14	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 16:14	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 16:14	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 16:14	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 16:14	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 16:14	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 16:14	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 16:14	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 16:14	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 16:14	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 16:14	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 16:14	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 16:14	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-04-01X-FAL24
Date Collected: 11/08/24 14:50
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 16:14	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 16:14	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 16:14	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 16:14	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 16:14	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 16:14	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 16:14	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 16:14	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 16:14	1
Trichloroethene	**0.38**	**J**	1.0	0.50	0.20	ug/L		11/20/24 16:14	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:14	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 16:14	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 16:14	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 16:14	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 16:14	1
Vinyl chloride	1.0	U M	2.0	1.0	0.40	ug/L		11/20/24 16:14	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 16:14	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 16:14	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*89 - 112*		*11/20/24 16:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*11/20/24 16:14*	*1*
4-Bromofluorobenzene (Surr)	*101*		*85 - 114*		*11/20/24 16:14*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*11/20/24 16:14*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**46000**		100	50	20	ug/L		11/18/24 23:33	1
Manganese	**6600**		10	5.0	1.3	ug/L		11/18/24 23:33	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**800**		5.0	3.0	0.86	ug/L		11/18/24 16:04	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-04-05X-FAL24
Date Collected: 11/08/24 15:05
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 16:36	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 16:36	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 16:36	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 16:36	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 16:36	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 16:36	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 16:36	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 16:36	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 16:36	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 16:36	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 16:36	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 16:36	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 16:36	1
Chlorobenzene	0.50	U M	1.0	0.50	0.15	ug/L		11/20/24 16:36	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 16:36	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 16:36	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 16:36	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 16:36	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 16:36	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 16:36	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 16:36	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:36	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 16:36	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 16:36	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 16:36	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 16:36	1
Dichlorodifluoromethane	1.0	U M	2.0	1.0	0.36	ug/L		11/20/24 16:36	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:36	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 16:36	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 16:36	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 16:36	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 16:36	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:36	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 16:36	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 16:36	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 16:36	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 16:36	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 16:36	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 16:36	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 16:36	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 16:36	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 16:36	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 16:36	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 16:36	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 16:36	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 16:36	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 16:36	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 16:36	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 16:36	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-04-05X-FAL24
Lab Sample ID: 680-258683-11
Date Collected: 11/08/24 15:05
Matrix: Water
Date Received: 11/15/24 10:11

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 16:36	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 16:36	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 16:36	1
Tetrachloroethene	1.0	U M	2.0	1.0	0.35	ug/L		11/20/24 16:36	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 16:36	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 16:36	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 16:36	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 16:36	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 16:36	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 16:36	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:36	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 16:36	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 16:36	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 16:36	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 16:36	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 16:36	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 16:36	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 16:36	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*89 - 112*		*11/20/24 16:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*11/20/24 16:36*	*1*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*		*11/20/24 16:36*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*11/20/24 16:36*	*1*

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-04-06X-FAL24
Date Collected: 11/11/24 14:30
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 16:58	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 16:58	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 16:58	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 16:58	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 16:58	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 16:58	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 16:58	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 16:58	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 16:58	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 16:58	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 16:58	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 16:58	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 16:58	1
Chlorobenzene	0.50	U M	1.0	0.50	0.15	ug/L		11/20/24 16:58	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 16:58	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 16:58	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 16:58	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 16:58	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 16:58	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 16:58	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 16:58	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:58	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 16:58	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 16:58	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 16:58	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 16:58	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 16:58	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:58	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 16:58	1
cis-1,2-Dichloroethene	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 16:58	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 16:58	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 16:58	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:58	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 16:58	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 16:58	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 16:58	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 16:58	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 16:58	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 16:58	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 16:58	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 16:58	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 16:58	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 16:58	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 16:58	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 16:58	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 16:58	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 16:58	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 16:58	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 16:58	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-04-06X-FAL24
Date Collected: 11/11/24 14:30
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 16:58	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 16:58	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 16:58	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 16:58	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 16:58	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 16:58	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 16:58	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 16:58	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 16:58	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 16:58	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 16:58	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 16:58	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 16:58	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 16:58	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 16:58	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 16:58	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 16:58	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 16:58	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*89 - 112*		*11/20/24 16:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*		*11/20/24 16:58*	*1*
4-Bromofluorobenzene (Surr)	*98*		*85 - 114*		*11/20/24 16:58*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*11/20/24 16:58*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/21/24 17:16	1
Manganese	**140**		10	5.0	1.3	ug/L		11/21/24 17:16	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		11/20/24 13:40	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-04-07X-FAL24
Date Collected: 11/11/24 11:10
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 17:19	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 17:19	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 17:19	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 17:19	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 17:19	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 17:19	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 17:19	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 17:19	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 17:19	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 17:19	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 17:19	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 17:19	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 17:19	1
Chlorobenzene	**0.27**	**J**	1.0	0.50	0.15	ug/L		11/20/24 17:19	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 17:19	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 17:19	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 17:19	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 17:19	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 17:19	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 17:19	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 17:19	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:19	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 17:19	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 17:19	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 17:19	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 17:19	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 17:19	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:19	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 17:19	1
cis-1,2-Dichloroethene	**2.4**	**M**	2.0	1.0	0.25	ug/L		11/20/24 17:19	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 17:19	1
1,2-Dichloroethene, Total	**2.4**		2.0	1.0	0.37	ug/L		11/20/24 17:19	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:19	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 17:19	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 17:19	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 17:19	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 17:19	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 17:19	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 17:19	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 17:19	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 17:19	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 17:19	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 17:19	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 17:19	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 17:19	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 17:19	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 17:19	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 17:19	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 17:19	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-04-07X-FAL24

Date Collected: 11/11/24 11:10
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-13

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 17:19	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 17:19	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 17:19	1
Tetrachloroethene	1.0	U M	2.0	1.0	0.35	ug/L		11/20/24 17:19	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 17:19	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 17:19	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 17:19	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 17:19	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 17:19	1
Trichloroethene	**0.37**	**J M**	1.0	0.50	0.20	ug/L		11/20/24 17:19	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:19	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 17:19	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 17:19	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 17:19	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 17:19	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 17:19	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 17:19	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 17:19	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*89 - 112*		*11/20/24 17:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*11/20/24 17:19*	*1*
4-Bromofluorobenzene (Surr)	*102*		*85 - 114*		*11/20/24 17:19*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*11/20/24 17:19*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	0.76	U	1.1	0.76	0.30	ug/L		11/18/24 19:32	1
Ethylene	0.71	U	1.0	0.71	0.31	ug/L		11/18/24 19:32	1
Methane	**1.9**	**M**	1.2	1.2	0.57	ug/L		11/18/24 19:32	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	**8.4**		1.5	1.0	0.40	mg/L		12/05/24 18:58	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/21/24 17:07	1
Manganese	**62**		10	5.0	1.3	ug/L		11/21/24 17:07	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**2.6**	**J**	5.0	3.0	0.86	ug/L		11/20/24 13:30	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**160**		5.5	5.0	2.2	mg/L		11/19/24 21:46	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	**0.33**		0.10	0.025	0.010	mg/L		11/21/24 10:17	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-04-07X-FAL24
Lab Sample ID: 680-258683-13
Date Collected: 11/11/24 11:10
Matrix: Water
Date Received: 11/15/24 10:11

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	1.7	U	2.6	1.7	0.86	mg/L		11/18/24 13:25	1
Total Organic Carbon (SW846 9060A)	**1.1**		1.0	1.0	0.50	mg/L		11/25/24 19:27	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-04-09X-FAL24
Date Collected: 11/12/24 10:25
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 17:41	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 17:41	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 17:41	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 17:41	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 17:41	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 17:41	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 17:41	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 17:41	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 17:41	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 17:41	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 17:41	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 17:41	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 17:41	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 17:41	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 17:41	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 17:41	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 17:41	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 17:41	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 17:41	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 17:41	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 17:41	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:41	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 17:41	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 17:41	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 17:41	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 17:41	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 17:41	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:41	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 17:41	1
cis-1,2-Dichloroethene	**0.46**	**J M**	2.0	1.0	0.25	ug/L		11/20/24 17:41	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 17:41	1
1,2-Dichloroethene, Total	**0.46**	**J**	2.0	1.0	0.37	ug/L		11/20/24 17:41	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:41	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 17:41	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 17:41	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 17:41	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 17:41	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 17:41	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 17:41	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 17:41	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 17:41	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 17:41	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 17:41	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 17:41	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 17:41	1
4-Methyl-2-pentanone (MIBK)	10	U M	20	10	2.7	ug/L		11/20/24 17:41	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 17:41	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 17:41	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 17:41	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-04-09X-FAL24

Date Collected: 11/12/24 10:25
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-14

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 17:41	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 17:41	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 17:41	1
Tetrachloroethene	1.0	U M	2.0	1.0	0.35	ug/L		11/20/24 17:41	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 17:41	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 17:41	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 17:41	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 17:41	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 17:41	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 17:41	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 17:41	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 17:41	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 17:41	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 17:41	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 17:41	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 17:41	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 17:41	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 17:41	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*89 - 112*		*11/20/24 17:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*81 - 118*		*11/20/24 17:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*85 - 114*		*11/20/24 17:41*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*11/20/24 17:41*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**6.3**		1.1	0.76	0.30	ug/L		11/18/24 19:42	1
Ethylene	0.71	U	1.0	0.71	0.31	ug/L		11/18/24 19:42	1
Methane	**30000**		1.2	1.2	0.57	ug/L		11/18/24 19:42	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	1.0	0.40	mg/L		12/05/24 19:07	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**20000**		100	50	20	ug/L		11/18/24 23:31	1
Manganese	**1100**		10	5.0	1.3	ug/L		11/18/24 23:31	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**310**		5.0	3.0	0.86	ug/L		11/18/24 16:02	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**60**		5.5	5.0	2.2	mg/L		11/19/24 21:56	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	**0.028**	**J**	0.10	0.025	0.010	mg/L		11/21/24 10:19	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-04-09X-FAL24
Lab Sample ID: 680-258683-14
Date Collected: 11/12/24 10:25
Matrix: Water
Date Received: 11/15/24 10:11

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	1.7	U	2.5	1.7	0.83	mg/L		11/18/24 13:25	1
Total Organic Carbon (SW846 9060A)	**4.3**		1.0	1.0	0.50	mg/L		11/25/24 19:43	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-04-10A-FAL24
Date Collected: 11/08/24 10:10
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-15
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 18:03	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 18:03	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 18:03	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 18:03	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 18:03	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 18:03	1
Bromomethane	10	U J1	20	10	3.7	ug/L		11/20/24 18:03	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 18:03	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 18:03	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 18:03	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 18:03	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 18:03	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 18:03	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 18:03	1
Chloroethane	10	U M	20	10	4.6	ug/L		11/20/24 18:03	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 18:03	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 18:03	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 18:03	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 18:03	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 18:03	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 18:03	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 18:03	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 18:03	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 18:03	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 18:03	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 18:03	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 18:03	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 18:03	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 18:03	1
cis-1,2-Dichloroethene	**0.91**	**J**	2.0	1.0	0.25	ug/L		11/20/24 18:03	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 18:03	1
1,2-Dichloroethene, Total	**0.91**	**J**	2.0	1.0	0.37	ug/L		11/20/24 18:03	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 18:03	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 18:03	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 18:03	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 18:03	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 18:03	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 18:03	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 18:03	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 18:03	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 18:03	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 18:03	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 18:03	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 18:03	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 18:03	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 18:03	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 18:03	1
Naphthalene	5.0	U J1	10	5.0	2.4	ug/L		11/20/24 18:03	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 18:03	1

Client Sample ID: G6M-04-10A-FAL24
Lab Sample ID: 680-258683-15

Date Collected: 11/08/24 10:10
Matrix: Water
Date Received: 11/15/24 10:11

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 18:03	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 18:03	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 18:03	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 18:03	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 18:03	1
1,2,3-Trichlorobenzene	2.0	U J1	5.0	2.0	0.81	ug/L		11/20/24 18:03	1
1,2,4-Trichlorobenzene	2.0	U J1	5.0	2.0	0.53	ug/L		11/20/24 18:03	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 18:03	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 18:03	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 18:03	1
Trichlorofluoromethane	1.0	U J1	2.0	1.0	0.33	ug/L		11/20/24 18:03	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 18:03	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 18:03	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 18:03	1
Vinyl acetate	2.0	U M Q J1	2.5	2.0	0.69	ug/L		11/20/24 18:03	1
Vinyl chloride	1.0	U M	2.0	1.0	0.40	ug/L		11/20/24 18:03	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 18:03	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 18:03	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*89 - 112*		*11/20/24 18:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*		*11/20/24 18:03*	*1*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*		*11/20/24 18:03*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 119*		*11/20/24 18:03*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	0.76	U M	1.1	0.76	0.30	ug/L		11/18/24 20:50	1
Ethylene	0.71	U M	1.0	0.71	0.31	ug/L		11/18/24 20:50	1
Methane	**890**	**J1**	1.2	1.2	0.57	ug/L		11/18/24 20:50	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	1.0	0.40	mg/L		12/05/24 18:18	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**33000**	**J1**	100	50	20	ug/L		11/21/24 16:33	1
Manganese	**400**		10	5.0	1.3	ug/L		11/21/24 16:33	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**260**	**J1**	5.0	3.0	0.86	ug/L		11/20/24 13:16	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**46**		5.5	5.0	2.2	mg/L		11/19/24 00:16	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	**0.018**	**J J1**	0.10	0.025	0.010	mg/L		11/21/24 10:08	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-04-10A-FAL24
Lab Sample ID: 680-258683-15
Date Collected: 11/08/24 10:10
Matrix: Water
Date Received: 11/15/24 10:11

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	1.6	U H	2.4	1.6	0.81	mg/L		11/18/24 13:25	1
Total Organic Carbon (SW846 9060A)	**3.5**		1.0	1.0	0.50	mg/L		11/25/24 15:24	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-04-10X-FAL24
Date Collected: 11/08/24 15:20
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-16
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/21/24 17:18	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 17:18	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/21/24 17:18	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 17:18	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 17:18	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/21/24 17:18	1
Bromomethane	10	U	20	10	3.7	ug/L		11/21/24 17:18	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/21/24 17:18	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/21/24 17:18	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/21/24 17:18	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 17:18	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 17:18	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/21/24 17:18	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/21/24 17:18	1
Chloroethane	10	U	20	10	4.6	ug/L		11/21/24 17:18	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 17:18	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/21/24 17:18	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/21/24 17:18	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/21/24 17:18	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/21/24 17:18	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/21/24 17:18	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 17:18	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 17:18	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 17:18	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 17:18	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 17:18	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 17:18	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 17:18	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 17:18	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 17:18	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 17:18	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/21/24 17:18	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 17:18	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/21/24 17:18	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 17:18	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/21/24 17:18	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/21/24 17:18	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 17:18	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/21/24 17:18	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/21/24 17:18	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/21/24 17:18	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/21/24 17:18	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 17:18	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/21/24 17:18	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/21/24 17:18	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/21/24 17:18	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/21/24 17:18	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/21/24 17:18	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/21/24 17:18	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-04-10X-FAL24
Lab Sample ID: 680-258683-16
Date Collected: 11/08/24 15:20
Matrix: Water
Date Received: 11/15/24 10:11

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 17:18	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 17:18	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/21/24 17:18	1
Tetrachloroethene	**0.57**	**J**	2.0	1.0	0.35	ug/L		11/21/24 17:18	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 17:18	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/21/24 17:18	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/21/24 17:18	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/21/24 17:18	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/21/24 17:18	1
Trichloroethene	**0.32**	**J**	1.0	0.50	0.20	ug/L		11/21/24 17:18	1
Trichlorofluoromethane	1.0	U Q	2.0	1.0	0.33	ug/L		11/21/24 17:18	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/21/24 17:18	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 17:18	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/21/24 17:18	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/21/24 17:18	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/21/24 17:18	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 17:18	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 17:18	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*89 - 112*		*11/21/24 17:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*81 - 118*		*11/21/24 17:18*	*1*
4-Bromofluorobenzene (Surr)	*111*		*85 - 114*		*11/21/24 17:18*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 119*		*11/21/24 17:18*	*1*

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-04-13X-FAL24
Lab Sample ID: 680-258683-17
Date Collected: 11/12/24 13:30
Matrix: Water
Date Received: 11/15/24 10:11

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/26/24 13:30	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 13:30	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/26/24 13:30	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 13:30	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 13:30	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/26/24 13:30	1
Bromomethane	10	U Q	20	10	3.7	ug/L		11/26/24 13:30	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/26/24 13:30	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/26/24 13:30	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/26/24 13:30	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 13:30	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 13:30	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/26/24 13:30	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/26/24 13:30	1
Chloroethane	10	U Q	20	10	4.6	ug/L		11/26/24 13:30	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 13:30	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/26/24 13:30	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/26/24 13:30	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 13:30	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/26/24 13:30	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/26/24 13:30	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 13:30	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 13:30	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 13:30	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 13:30	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 13:30	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 13:30	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 13:30	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 13:30	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 13:30	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 13:30	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/26/24 13:30	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 13:30	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/26/24 13:30	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 13:30	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 13:30	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 13:30	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 13:30	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/26/24 13:30	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 13:30	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/26/24 13:30	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/26/24 13:30	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 13:30	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/26/24 13:30	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/26/24 13:30	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/26/24 13:30	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 13:30	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/26/24 13:30	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 13:30	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-04-13X-FAL24
Lab Sample ID: 680-258683-17
Date Collected: 11/12/24 13:30
Matrix: Water
Date Received: 11/15/24 10:11

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 13:30	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 13:30	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 13:30	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 13:30	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 13:30	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 13:30	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/26/24 13:30	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/26/24 13:30	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/26/24 13:30	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 13:30	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 13:30	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/26/24 13:30	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 13:30	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 13:30	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/26/24 13:30	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 13:30	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 13:30	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 13:30	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*89 - 112*		*11/26/24 13:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*81 - 118*		*11/26/24 13:30*	*1*
4-Bromofluorobenzene (Surr)	*111*		*85 - 114*		*11/26/24 13:30*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*11/26/24 13:30*	*1*

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-04-14X-FAL24
Date Collected: 11/11/24 12:55
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/24/24 16:48	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 16:48	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/24/24 16:48	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 16:48	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 16:48	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/24/24 16:48	1
Bromomethane	10	U	20	10	3.7	ug/L		11/24/24 16:48	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/24/24 16:48	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/24/24 16:48	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/24/24 16:48	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/24/24 16:48	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/24/24 16:48	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/24/24 16:48	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/24/24 16:48	1
Chloroethane	10	U	20	10	4.6	ug/L		11/24/24 16:48	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 16:48	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/24/24 16:48	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/24/24 16:48	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/24/24 16:48	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/24/24 16:48	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/24/24 16:48	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 16:48	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 16:48	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 16:48	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 16:48	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 16:48	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 16:48	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 16:48	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/24/24 16:48	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 16:48	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 16:48	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/24/24 16:48	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 16:48	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/24/24 16:48	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 16:48	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/24/24 16:48	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/24/24 16:48	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 16:48	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/24/24 16:48	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/24/24 16:48	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/24/24 16:48	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/24/24 16:48	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 16:48	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/24/24 16:48	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/24/24 16:48	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/24/24 16:48	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/24/24 16:48	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/24/24 16:48	1
N-Propylbenzene	1.0	U M	2.0	1.0	0.41	ug/L		11/24/24 16:48	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-04-14X-FAL24
Date Collected: 11/11/24 12:55
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 16:48	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 16:48	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/24/24 16:48	1
Tetrachloroethene	**0.67**	**J**	2.0	1.0	0.35	ug/L		11/24/24 16:48	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 16:48	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/24/24 16:48	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/24/24 16:48	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/24/24 16:48	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/24/24 16:48	1
Trichloroethene	**0.39**	**J**	1.0	0.50	0.20	ug/L		11/24/24 16:48	1
Trichlorofluoromethane	1.0	U Q	2.0	1.0	0.33	ug/L		11/24/24 16:48	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/24/24 16:48	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/24/24 16:48	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/24/24 16:48	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/24/24 16:48	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/24/24 16:48	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 16:48	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/24/24 16:48	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/24/24 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*89 - 112*		*11/24/24 16:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*81 - 118*		*11/24/24 16:48*	*1*
4-Bromofluorobenzene (Surr)	*108*		*85 - 114*		*11/24/24 16:48*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 119*		*11/24/24 16:48*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/21/24 17:04	1
Manganese	**5.4**	**J**	10	5.0	1.3	ug/L		11/21/24 17:04	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**8.7**		5.0	3.0	0.86	ug/L		11/20/24 13:28	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-07-01X-FAL24
Date Collected: 11/08/24 10:55
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-19
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/21/24 17:41	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 17:41	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/21/24 17:41	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 17:41	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 17:41	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/21/24 17:41	1
Bromomethane	10	U	20	10	3.7	ug/L		11/21/24 17:41	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/21/24 17:41	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/21/24 17:41	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/21/24 17:41	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 17:41	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 17:41	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/21/24 17:41	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/21/24 17:41	1
Chloroethane	10	U	20	10	4.6	ug/L		11/21/24 17:41	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 17:41	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/21/24 17:41	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/21/24 17:41	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/21/24 17:41	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/21/24 17:41	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/21/24 17:41	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 17:41	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 17:41	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 17:41	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 17:41	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 17:41	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 17:41	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 17:41	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/21/24 17:41	1
cis-1,2-Dichloroethene	**2.1**		2.0	1.0	0.25	ug/L		11/21/24 17:41	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 17:41	1
1,2-Dichloroethene, Total	**2.1**		2.0	1.0	0.37	ug/L		11/21/24 17:41	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 17:41	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/21/24 17:41	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 17:41	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/21/24 17:41	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/21/24 17:41	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 17:41	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/21/24 17:41	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/21/24 17:41	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/21/24 17:41	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/21/24 17:41	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 17:41	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/21/24 17:41	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/21/24 17:41	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/21/24 17:41	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/21/24 17:41	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/21/24 17:41	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/21/24 17:41	1

Client Sample ID: G6M-07-01X-FAL24

Date Collected: 11/08/24 10:55
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-19

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 17:41	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 17:41	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/21/24 17:41	1
Tetrachloroethene	**30**		2.0	1.0	0.35	ug/L		11/21/24 17:41	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 17:41	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/21/24 17:41	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/21/24 17:41	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/21/24 17:41	1
1,1,2-Trichloroethane	1.0	U M	2.0	1.0	0.32	ug/L		11/21/24 17:41	1
Trichloroethene	**2.9**		1.0	0.50	0.20	ug/L		11/21/24 17:41	1
Trichlorofluoromethane	1.0	U Q	2.0	1.0	0.33	ug/L		11/21/24 17:41	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/21/24 17:41	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 17:41	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/21/24 17:41	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/21/24 17:41	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/21/24 17:41	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 17:41	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 17:41	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*89 - 112*		*11/21/24 17:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*81 - 118*		*11/21/24 17:41*	*1*
4-Bromofluorobenzene (Surr)	*108*		*85 - 114*		*11/21/24 17:41*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*11/21/24 17:41*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**0.58**	**J**	1.1	0.76	0.30	ug/L		11/18/24 19:52	1
Ethylene	**3.3**		1.0	0.71	0.31	ug/L		11/18/24 19:52	1
Methane	**3900**		1.2	1.2	0.57	ug/L		11/18/24 19:52	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	**8.8**		1.5	1.0	0.40	mg/L		12/05/24 19:15	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**53**	**J**	100	50	20	ug/L		11/18/24 23:49	1
Manganese	**35**		10	5.0	1.3	ug/L		11/18/24 23:49	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**1.4**	**J**	5.0	3.0	0.86	ug/L		11/18/24 16:14	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**35**		5.5	5.0	2.2	mg/L		11/19/24 22:05	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	**0.70**		0.10	0.025	0.010	mg/L		11/21/24 10:16	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-07-01X-FAL24
Lab Sample ID: 680-258683-19
Date Collected: 11/08/24 10:55
Matrix: Water
Date Received: 11/15/24 10:11

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	1.6	U H	2.4	1.6	0.81	mg/L		11/18/24 13:25	1
Total Organic Carbon (SW846 9060A)	**3.0**		1.0	1.0	0.50	mg/L		11/25/24 20:01	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-07-02X-FAL24
Date Collected: 11/12/24 11:20
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-20
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/26/24 13:53	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 13:53	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/26/24 13:53	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 13:53	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 13:53	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/26/24 13:53	1
Bromomethane	10	U Q	20	10	3.7	ug/L		11/26/24 13:53	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/26/24 13:53	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/26/24 13:53	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/26/24 13:53	1
tert-Butylbenzene	1.0	U M	2.0	1.0	0.43	ug/L		11/26/24 13:53	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 13:53	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/26/24 13:53	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/26/24 13:53	1
Chloroethane	10	U Q	20	10	4.6	ug/L		11/26/24 13:53	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 13:53	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/26/24 13:53	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/26/24 13:53	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 13:53	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/26/24 13:53	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/26/24 13:53	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 13:53	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 13:53	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 13:53	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 13:53	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 13:53	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 13:53	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 13:53	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 13:53	1
cis-1,2-Dichloroethene	**0.47**	**J**	2.0	1.0	0.25	ug/L		11/26/24 13:53	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 13:53	1
1,2-Dichloroethene, Total	**0.47**	**J**	2.0	1.0	0.37	ug/L		11/26/24 13:53	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 13:53	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/26/24 13:53	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 13:53	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 13:53	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 13:53	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 13:53	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/26/24 13:53	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 13:53	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/26/24 13:53	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/26/24 13:53	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 13:53	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/26/24 13:53	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/26/24 13:53	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/26/24 13:53	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 13:53	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/26/24 13:53	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 13:53	1

Client Sample ID: G6M-07-02X-FAL24

Date Collected: 11/12/24 11:20
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-20

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 13:53	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 13:53	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 13:53	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 13:53	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 13:53	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 13:53	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/26/24 13:53	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/26/24 13:53	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/26/24 13:53	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 13:53	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 13:53	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/26/24 13:53	1
1,2,4-Trimethylbenzene	**1.0**	**J**	2.0	1.0	0.43	ug/L		11/26/24 13:53	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 13:53	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/26/24 13:53	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 13:53	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 13:53	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 13:53	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*89 - 112*		*11/26/24 13:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*81 - 118*		*11/26/24 13:53*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*11/26/24 13:53*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*11/26/24 13:53*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**1.9**		1.1	0.76	0.30	ug/L		11/18/24 20:01	1
Ethylene	0.71	U	1.0	0.71	0.31	ug/L		11/18/24 20:01	1
Methane	**12000**		1.2	1.2	0.57	ug/L		11/18/24 20:01	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	1.0	0.40	mg/L		12/05/24 19:23	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**78000**		100	50	20	ug/L		11/18/24 23:46	1
Manganese	**2400**		10	5.0	1.3	ug/L		11/18/24 23:46	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**60**		5.0	3.0	0.86	ug/L		11/18/24 16:12	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**62**		5.5	5.0	2.2	mg/L		11/19/24 22:13	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	**0.030**	**J**	0.10	0.025	0.010	mg/L		11/21/24 10:14	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-07-02X-FAL24
Lab Sample ID: 680-258683-20
Date Collected: 11/12/24 11:20
Matrix: Water
Date Received: 11/15/24 10:11

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	1.7	U	2.5	1.7	0.83	mg/L		11/18/24 13:25	1
Total Organic Carbon (SW846 9060A)	**50**		1.0	1.0	0.50	mg/L		11/25/24 20:17	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-13-01X-FAL24
Lab Sample ID: 680-258683-21
Date Collected: 11/12/24 10:45
Matrix: Water
Date Received: 11/15/24 10:11

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/26/24 14:15	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 14:15	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/26/24 14:15	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 14:15	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 14:15	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/26/24 14:15	1
Bromomethane	10	U Q	20	10	3.7	ug/L		11/26/24 14:15	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/26/24 14:15	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/26/24 14:15	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/26/24 14:15	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 14:15	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 14:15	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/26/24 14:15	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/26/24 14:15	1
Chloroethane	10	U Q	20	10	4.6	ug/L		11/26/24 14:15	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 14:15	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/26/24 14:15	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/26/24 14:15	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 14:15	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/26/24 14:15	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/26/24 14:15	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 14:15	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 14:15	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 14:15	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 14:15	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 14:15	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 14:15	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 14:15	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 14:15	1
cis-1,2-Dichloroethene	**0.27**	**J**	2.0	1.0	0.25	ug/L		11/26/24 14:15	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 14:15	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/26/24 14:15	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 14:15	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/26/24 14:15	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 14:15	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 14:15	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 14:15	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 14:15	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/26/24 14:15	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 14:15	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/26/24 14:15	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/26/24 14:15	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 14:15	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/26/24 14:15	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/26/24 14:15	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/26/24 14:15	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 14:15	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/26/24 14:15	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 14:15	1

Client Sample ID: G6M-13-01X-FAL24
Lab Sample ID: 680-258683-21

Date Collected: 11/12/24 10:45
Matrix: Water
Date Received: 11/15/24 10:11

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 14:15	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 14:15	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 14:15	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 14:15	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 14:15	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 14:15	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/26/24 14:15	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/26/24 14:15	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/26/24 14:15	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 14:15	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 14:15	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/26/24 14:15	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 14:15	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 14:15	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/26/24 14:15	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 14:15	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 14:15	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 14:15	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*89 - 112*		*11/26/24 14:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*81 - 118*		*11/26/24 14:15*	*1*
4-Bromofluorobenzene (Surr)	*112*		*85 - 114*		*11/26/24 14:15*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*11/26/24 14:15*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	0.76	U	1.1	0.76	0.30	ug/L		11/18/24 20:11	1
Ethylene	0.71	U	1.0	0.71	0.31	ug/L		11/18/24 20:11	1
Methane	**160**		1.2	1.2	0.57	ug/L		11/18/24 20:11	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	**15**		1.5	1.0	0.40	mg/L		12/05/24 19:31	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**4700**		100	50	20	ug/L		11/18/24 23:44	1
Manganese	**3500**		10	5.0	1.3	ug/L		11/18/24 23:44	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**180**		5.0	3.0	0.86	ug/L		11/18/24 16:10	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**58**		5.5	5.0	2.2	mg/L		11/19/24 19:13	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	**0.20**		0.10	0.025	0.010	mg/L		11/21/24 10:24	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-13-01X-FAL24
Lab Sample ID: 680-258683-21
Date Collected: 11/12/24 10:45
Matrix: Water
Date Received: 11/15/24 10:11

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	1.7	U	2.5	1.7	0.83	mg/L		11/18/24 13:25	1
Total Organic Carbon (SW846 9060A)	**0.89**	**J**	1.0	1.0	0.50	mg/L		11/25/24 20:36	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-13-04X-FAL24
Date Collected: 11/11/24 15:45
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-22
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/24/24 17:11	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 17:11	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/24/24 17:11	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 17:11	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 17:11	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/24/24 17:11	1
Bromomethane	10	U	20	10	3.7	ug/L		11/24/24 17:11	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/24/24 17:11	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/24/24 17:11	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/24/24 17:11	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/24/24 17:11	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/24/24 17:11	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/24/24 17:11	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/24/24 17:11	1
Chloroethane	10	U	20	10	4.6	ug/L		11/24/24 17:11	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 17:11	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/24/24 17:11	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/24/24 17:11	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/24/24 17:11	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/24/24 17:11	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/24/24 17:11	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 17:11	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 17:11	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 17:11	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 17:11	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 17:11	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 17:11	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 17:11	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/24/24 17:11	1
cis-1,2-Dichloroethene	**0.79**	**J**	2.0	1.0	0.25	ug/L		11/24/24 17:11	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 17:11	1
1,2-Dichloroethene, Total	**0.79**	**J**	2.0	1.0	0.37	ug/L		11/24/24 17:11	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 17:11	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/24/24 17:11	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 17:11	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/24/24 17:11	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/24/24 17:11	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 17:11	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/24/24 17:11	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/24/24 17:11	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/24/24 17:11	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/24/24 17:11	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 17:11	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/24/24 17:11	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/24/24 17:11	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/24/24 17:11	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/24/24 17:11	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/24/24 17:11	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/24/24 17:11	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-13-04X-FAL24
Date Collected: 11/11/24 15:45
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-22
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 17:11	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 17:11	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/24/24 17:11	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/24/24 17:11	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 17:11	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/24/24 17:11	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/24/24 17:11	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/24/24 17:11	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/24/24 17:11	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/24/24 17:11	1
Trichlorofluoromethane	1.0	U Q	2.0	1.0	0.33	ug/L		11/24/24 17:11	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/24/24 17:11	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/24/24 17:11	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/24/24 17:11	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/24/24 17:11	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/24/24 17:11	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 17:11	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/24/24 17:11	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/24/24 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*89 - 112*		*11/24/24 17:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*81 - 118*		*11/24/24 17:11*	*1*
4-Bromofluorobenzene (Surr)	*105*		*85 - 114*		*11/24/24 17:11*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 119*		*11/24/24 17:11*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**55000**		100	50	20	ug/L		11/21/24 17:22	1
Manganese	**5400**		10	5.0	1.3	ug/L		11/21/24 17:22	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**370**		5.0	3.0	0.86	ug/L		11/20/24 13:44	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-13-05X-FAL24
Date Collected: 11/11/24 13:50
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-23
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/24/24 17:34	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 17:34	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/24/24 17:34	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 17:34	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 17:34	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/24/24 17:34	1
Bromomethane	10	U	20	10	3.7	ug/L		11/24/24 17:34	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/24/24 17:34	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/24/24 17:34	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/24/24 17:34	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/24/24 17:34	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/24/24 17:34	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/24/24 17:34	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/24/24 17:34	1
Chloroethane	10	U	20	10	4.6	ug/L		11/24/24 17:34	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 17:34	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/24/24 17:34	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/24/24 17:34	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/24/24 17:34	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/24/24 17:34	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/24/24 17:34	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 17:34	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 17:34	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 17:34	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 17:34	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 17:34	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 17:34	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 17:34	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 17:34	1
cis-1,2-Dichloroethene	**9.1**		2.0	1.0	0.25	ug/L		11/24/24 17:34	1
trans-1,2-Dichloroethene	**0.45**	**J**	2.0	1.0	0.34	ug/L		11/24/24 17:34	1
1,2-Dichloroethene, Total	**9.6**		2.0	1.0	0.37	ug/L		11/24/24 17:34	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 17:34	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/24/24 17:34	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 17:34	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/24/24 17:34	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/24/24 17:34	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 17:34	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/24/24 17:34	1
Ethylbenzene	**0.21**	**J**	1.0	0.50	0.20	ug/L		11/24/24 17:34	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/24/24 17:34	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/24/24 17:34	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 17:34	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/24/24 17:34	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/24/24 17:34	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/24/24 17:34	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/24/24 17:34	1
Naphthalene	**2.6**	**J**	10	5.0	2.4	ug/L		11/24/24 17:34	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/24/24 17:34	1

Client Sample ID: G6M-13-05X-FAL24

Date Collected: 11/11/24 13:50
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-23

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 17:34	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 17:34	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/24/24 17:34	1
Tetrachloroethene	**24**		2.0	1.0	0.35	ug/L		11/24/24 17:34	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 17:34	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/24/24 17:34	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/24/24 17:34	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/24/24 17:34	1
1,1,2-Trichloroethane	1.0	U M	2.0	1.0	0.32	ug/L		11/24/24 17:34	1
Trichloroethene	**8.5**		1.0	0.50	0.20	ug/L		11/24/24 17:34	1
Trichlorofluoromethane	1.0	U Q	2.0	1.0	0.33	ug/L		11/24/24 17:34	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/24/24 17:34	1
1,2,4-Trimethylbenzene	**0.78**	**J**	2.0	1.0	0.43	ug/L		11/24/24 17:34	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/24/24 17:34	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/24/24 17:34	1
Vinyl chloride	**9.6**		2.0	1.0	0.40	ug/L		11/24/24 17:34	1
o-Xylene	**0.48**	**J**	2.0	1.0	0.26	ug/L		11/24/24 17:34	1
m-Xylene & p-Xylene	**0.58**	**J**	2.0	1.0	0.49	ug/L		11/24/24 17:34	1
Xylenes, Total	**1.1**	**J**	2.0	1.0	0.49	ug/L		11/24/24 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*89 - 112*		*11/24/24 17:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*81 - 118*		*11/24/24 17:34*	*1*
4-Bromofluorobenzene (Surr)	*106*		*85 - 114*		*11/24/24 17:34*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 119*		*11/24/24 17:34*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**24**		1.1	0.76	0.30	ug/L		11/18/24 20:21	1
Ethylene	**10**		1.0	0.71	0.31	ug/L		11/18/24 20:21	1
Methane	**13000**		1.2	1.2	0.57	ug/L		11/18/24 20:21	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	1.0	0.40	mg/L		12/05/24 19:39	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**52000**		100	50	20	ug/L		11/19/24 00:06	1
Manganese	**4500**		10	5.0	1.3	ug/L		11/19/24 00:06	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**130**		5.0	3.0	0.86	ug/L		11/18/24 16:30	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**57**		5.5	5.0	2.2	mg/L		11/19/24 18:53	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	**0.016**	**J**	0.10	0.025	0.010	mg/L		11/21/24 10:21	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-13-05X-FAL24
Lab Sample ID: 680-258683-23
Date Collected: 11/11/24 13:50
Matrix: Water
Date Received: 11/15/24 10:11

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	1.7	U	2.5	1.7	0.83	mg/L		11/18/24 13:25	1
Total Organic Carbon (SW846 9060A)	**2.8**		1.0	1.0	0.50	mg/L		11/25/24 20:54	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-13-06X-FAL24
Date Collected: 11/11/24 15:25
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-24
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/24/24 17:56	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 17:56	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/24/24 17:56	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 17:56	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 17:56	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/24/24 17:56	1
Bromomethane	10	U	20	10	3.7	ug/L		11/24/24 17:56	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/24/24 17:56	1
n-Butylbenzene	2.0	U M	2.5	2.0	0.52	ug/L		11/24/24 17:56	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/24/24 17:56	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/24/24 17:56	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/24/24 17:56	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/24/24 17:56	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/24/24 17:56	1
Chloroethane	10	U	20	10	4.6	ug/L		11/24/24 17:56	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 17:56	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/24/24 17:56	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/24/24 17:56	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/24/24 17:56	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/24/24 17:56	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/24/24 17:56	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 17:56	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 17:56	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 17:56	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 17:56	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 17:56	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 17:56	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 17:56	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 17:56	1
cis-1,2-Dichloroethene	**0.53**	**J**	2.0	1.0	0.25	ug/L		11/24/24 17:56	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 17:56	1
1,2-Dichloroethene, Total	**0.53**	**J**	2.0	1.0	0.37	ug/L		11/24/24 17:56	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 17:56	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/24/24 17:56	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 17:56	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/24/24 17:56	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/24/24 17:56	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 17:56	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/24/24 17:56	1
Ethylbenzene	**0.70**	**J**	1.0	0.50	0.20	ug/L		11/24/24 17:56	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/24/24 17:56	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/24/24 17:56	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 17:56	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/24/24 17:56	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/24/24 17:56	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/24/24 17:56	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/24/24 17:56	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/24/24 17:56	1
N-Propylbenzene	**0.72**	**J**	2.0	1.0	0.41	ug/L		11/24/24 17:56	1

Client Sample ID: G6M-13-06X-FAL24
Lab Sample ID: 680-258683-24

Date Collected: 11/11/24 15:25
Matrix: Water
Date Received: 11/15/24 10:11

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 17:56	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 17:56	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/24/24 17:56	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/24/24 17:56	1
Toluene	**4.6**		2.0	1.0	0.25	ug/L		11/24/24 17:56	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/24/24 17:56	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/24/24 17:56	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/24/24 17:56	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/24/24 17:56	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/24/24 17:56	1
Trichlorofluoromethane	1.0	U Q	2.0	1.0	0.33	ug/L		11/24/24 17:56	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/24/24 17:56	1
1,2,4-Trimethylbenzene	**3.5**		2.0	1.0	0.43	ug/L		11/24/24 17:56	1
1,3,5-Trimethylbenzene	**1.0 J**		2.0	1.0	0.28	ug/L		11/24/24 17:56	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/24/24 17:56	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/24/24 17:56	1
o-Xylene	**0.71 J**		2.0	1.0	0.26	ug/L		11/24/24 17:56	1
m-Xylene & p-Xylene	**0.75 J**		2.0	1.0	0.49	ug/L		11/24/24 17:56	1
Xylenes, Total	**1.5 J**		2.0	1.0	0.49	ug/L		11/24/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*89 - 112*		*11/24/24 17:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*81 - 118*		*11/24/24 17:56*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*11/24/24 17:56*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*11/24/24 17:56*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**11**		1.1	0.76	0.30	ug/L		11/18/24 20:31	1
Ethylene	0.71	U	1.0	0.71	0.31	ug/L		11/18/24 20:31	1
Methane	**18000**		1.2	1.2	0.57	ug/L		11/18/24 20:31	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	1.0	0.40	mg/L		12/05/24 19:47	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**150000**		100	50	20	ug/L		11/19/24 00:08	1
Manganese	**1000**		10	5.0	1.3	ug/L		11/19/24 00:08	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**380**		5.0	3.0	0.86	ug/L		11/18/24 16:32	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**200**		5.5	5.0	2.2	mg/L		11/19/24 19:03	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	0.025	U	0.10	0.025	0.010	mg/L		11/21/24 10:23	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-13-06X-FAL24
Lab Sample ID: 680-258683-24
Date Collected: 11/11/24 15:25
Matrix: Water
Date Received: 11/15/24 10:11

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	5.7		2.5	1.7	0.83	mg/L		11/18/24 13:25	1
Total Organic Carbon (SW846 9060A)	25		1.0	1.0	0.50	mg/L		11/25/24 21:10	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-95-19X-FAL24
Date Collected: 11/12/24 14:45
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-25
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/26/24 14:38	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 14:38	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/26/24 14:38	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 14:38	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 14:38	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/26/24 14:38	1
Bromomethane	10	U Q	20	10	3.7	ug/L		11/26/24 14:38	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/26/24 14:38	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/26/24 14:38	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/26/24 14:38	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 14:38	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 14:38	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/26/24 14:38	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/26/24 14:38	1
Chloroethane	10	U Q	20	10	4.6	ug/L		11/26/24 14:38	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 14:38	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/26/24 14:38	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/26/24 14:38	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 14:38	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/26/24 14:38	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/26/24 14:38	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 14:38	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 14:38	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 14:38	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 14:38	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 14:38	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 14:38	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 14:38	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 14:38	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 14:38	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 14:38	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/26/24 14:38	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 14:38	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/26/24 14:38	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 14:38	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 14:38	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 14:38	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 14:38	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/26/24 14:38	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 14:38	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/26/24 14:38	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/26/24 14:38	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 14:38	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/26/24 14:38	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/26/24 14:38	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/26/24 14:38	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 14:38	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/26/24 14:38	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 14:38	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-95-19X-FAL24
Lab Sample ID: 680-258683-25
Date Collected: 11/12/24 14:45
Matrix: Water
Date Received: 11/15/24 10:11

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 14:38	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 14:38	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 14:38	1
Tetrachloroethene	**1.7**	**J**	2.0	1.0	0.35	ug/L		11/26/24 14:38	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 14:38	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 14:38	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/26/24 14:38	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/26/24 14:38	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/26/24 14:38	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 14:38	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 14:38	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/26/24 14:38	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 14:38	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 14:38	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/26/24 14:38	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 14:38	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 14:38	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 14:38	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*89 - 112*		*11/26/24 14:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*81 - 118*		*11/26/24 14:38*	*1*
4-Bromofluorobenzene (Surr)	*111*		*85 - 114*		*11/26/24 14:38*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*11/26/24 14:38*	*1*

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-95-20X-FAL24
Date Collected: 11/12/24 09:40
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-26
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/26/24 15:00	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 15:00	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/26/24 15:00	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 15:00	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 15:00	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/26/24 15:00	1
Bromomethane	10	U Q	20	10	3.7	ug/L		11/26/24 15:00	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/26/24 15:00	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/26/24 15:00	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/26/24 15:00	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 15:00	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 15:00	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/26/24 15:00	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/26/24 15:00	1
Chloroethane	10	U Q	20	10	4.6	ug/L		11/26/24 15:00	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 15:00	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/26/24 15:00	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/26/24 15:00	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 15:00	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/26/24 15:00	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/26/24 15:00	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 15:00	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 15:00	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 15:00	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 15:00	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 15:00	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 15:00	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 15:00	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 15:00	1
cis-1,2-Dichloroethene	**1.1**	**J**	2.0	1.0	0.25	ug/L		11/26/24 15:00	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 15:00	1
1,2-Dichloroethene, Total	**1.1**	**J**	2.0	1.0	0.37	ug/L		11/26/24 15:00	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 15:00	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/26/24 15:00	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 15:00	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 15:00	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 15:00	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 15:00	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/26/24 15:00	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 15:00	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/26/24 15:00	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/26/24 15:00	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 15:00	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/26/24 15:00	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/26/24 15:00	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/26/24 15:00	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 15:00	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/26/24 15:00	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 15:00	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-95-20X-FAL24
Date Collected: 11/12/24 09:40
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-26
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 15:00	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 15:00	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 15:00	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 15:00	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 15:00	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 15:00	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/26/24 15:00	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/26/24 15:00	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/26/24 15:00	1
Trichloroethene	**0.23**	**J**	1.0	0.50	0.20	ug/L		11/26/24 15:00	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 15:00	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/26/24 15:00	1
1,2,4-Trimethylbenzene	**0.44**	**J**	2.0	1.0	0.43	ug/L		11/26/24 15:00	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 15:00	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/26/24 15:00	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 15:00	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 15:00	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 15:00	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*89 - 112*		*11/26/24 15:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*81 - 118*		*11/26/24 15:00*	*1*
4-Bromofluorobenzene (Surr)	*112*		*85 - 114*		*11/26/24 15:00*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*11/26/24 15:00*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**15000**		100	50	20	ug/L		11/18/24 23:59	1
Manganese	**1200**		10	5.0	1.3	ug/L		11/18/24 23:59	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**35**		5.0	3.0	0.86	ug/L		11/18/24 16:28	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: G6M-97-05B-FAL24
Date Collected: 11/11/24 15:25
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-27
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/24/24 18:19	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 18:19	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/24/24 18:19	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 18:19	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 18:19	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/24/24 18:19	1
Bromomethane	10	U	20	10	3.7	ug/L		11/24/24 18:19	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/24/24 18:19	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/24/24 18:19	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/24/24 18:19	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/24/24 18:19	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/24/24 18:19	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/24/24 18:19	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/24/24 18:19	1
Chloroethane	10	U	20	10	4.6	ug/L		11/24/24 18:19	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 18:19	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/24/24 18:19	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/24/24 18:19	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/24/24 18:19	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/24/24 18:19	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/24/24 18:19	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 18:19	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 18:19	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 18:19	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 18:19	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 18:19	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 18:19	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 18:19	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 18:19	1
cis-1,2-Dichloroethene	**0.32**	**J**	2.0	1.0	0.25	ug/L		11/24/24 18:19	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 18:19	1
1,2-Dichloroethene, Total	**0.58**	**J**	2.0	1.0	0.37	ug/L		11/24/24 18:19	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 18:19	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/24/24 18:19	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 18:19	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/24/24 18:19	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/24/24 18:19	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 18:19	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/24/24 18:19	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/24/24 18:19	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/24/24 18:19	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/24/24 18:19	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 18:19	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/24/24 18:19	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/24/24 18:19	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/24/24 18:19	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/24/24 18:19	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/24/24 18:19	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/24/24 18:19	1

Client Sample ID: G6M-97-05B-FAL24

Date Collected: 11/11/24 15:25
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-27

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 18:19	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 18:19	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/24/24 18:19	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/24/24 18:19	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 18:19	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/24/24 18:19	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/24/24 18:19	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/24/24 18:19	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/24/24 18:19	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/24/24 18:19	1
Trichlorofluoromethane	1.0	U Q	2.0	1.0	0.33	ug/L		11/24/24 18:19	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/24/24 18:19	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/24/24 18:19	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/24/24 18:19	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/24/24 18:19	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/24/24 18:19	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 18:19	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/24/24 18:19	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/24/24 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*89 - 112*		*11/24/24 18:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*81 - 118*		*11/24/24 18:19*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*11/24/24 18:19*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*11/24/24 18:19*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**11**		1.1	0.76	0.30	ug/L		11/18/24 20:40	1
Ethylene	**6.3**		1.0	0.71	0.31	ug/L		11/18/24 20:40	1
Methane	**22000**		1.2	1.2	0.57	ug/L		11/18/24 20:40	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	1.0	0.40	mg/L		12/05/24 20:37	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**44000**		100	50	20	ug/L		11/18/24 23:22	1
Manganese	**9800**		10	5.0	1.3	ug/L		11/18/24 23:22	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**270**		5.0	3.0	0.86	ug/L		11/18/24 15:50	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**160**		5.5	5.0	2.2	mg/L		11/19/24 21:18	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	0.025	U J1	0.10	0.025	0.010	mg/L		11/21/24 10:26	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-97-05B-FAL24
Lab Sample ID: 680-258683-27
Date Collected: 11/11/24 15:25
Matrix: Water
Date Received: 11/15/24 10:11

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	1.7	U	2.6	1.7	0.86	mg/L		11/18/24 13:49	1
Total Organic Carbon (SW846 9060A)	**6.3**		1.0	1.0	0.50	mg/L		11/25/24 21:28	1

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-97-28X-FAL24
Lab Sample ID: 680-258683-28
Date Collected: 11/12/24 12:30
Matrix: Water
Date Received: 11/15/24 10:11

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	7400		100	50	20	ug/L		11/18/24 23:20	1
Manganese	4500		10	5.0	1.3	ug/L		11/18/24 23:20	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	120		5.0	3.0	0.86	ug/L		11/18/24 15:44	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: MW-3-FAL24
Date Collected: 11/12/24 11:00
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-29
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/26/24 15:23	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 15:23	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/26/24 15:23	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 15:23	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 15:23	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/26/24 15:23	1
Bromomethane	10	U Q	20	10	3.7	ug/L		11/26/24 15:23	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/26/24 15:23	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/26/24 15:23	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/26/24 15:23	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 15:23	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 15:23	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/26/24 15:23	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/26/24 15:23	1
Chloroethane	10	U Q	20	10	4.6	ug/L		11/26/24 15:23	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 15:23	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/26/24 15:23	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/26/24 15:23	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 15:23	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/26/24 15:23	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/26/24 15:23	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 15:23	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 15:23	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 15:23	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 15:23	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 15:23	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 15:23	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 15:23	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 15:23	1
cis-1,2-Dichloroethene	**0.33**	**J**	2.0	1.0	0.25	ug/L		11/26/24 15:23	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 15:23	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/26/24 15:23	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 15:23	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/26/24 15:23	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 15:23	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 15:23	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 15:23	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 15:23	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/26/24 15:23	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 15:23	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/26/24 15:23	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/26/24 15:23	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 15:23	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/26/24 15:23	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/26/24 15:23	1
4-Methyl-2-pentanone (MIBK)	10	U M	20	10	2.7	ug/L		11/26/24 15:23	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 15:23	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/26/24 15:23	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 15:23	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: MW-3-FAL24
Date Collected: 11/12/24 11:00
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-29
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 15:23	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 15:23	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 15:23	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 15:23	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 15:23	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 15:23	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/26/24 15:23	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/26/24 15:23	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/26/24 15:23	1
Trichloroethene	**0.25**	**J**	1.0	0.50	0.20	ug/L		11/26/24 15:23	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 15:23	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/26/24 15:23	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 15:23	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 15:23	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/26/24 15:23	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 15:23	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 15:23	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 15:23	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*89 - 112*		*11/26/24 15:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*81 - 118*		*11/26/24 15:23*	*1*
4-Bromofluorobenzene (Surr)	*111*		*85 - 114*		*11/26/24 15:23*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*11/26/24 15:23*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**61000**	**J1**	100	50	20	ug/L		11/18/24 23:05	1
Manganese	**12000**	**J1**	10	5.0	1.3	ug/L		11/18/24 23:05	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**660**		5.0	3.0	0.86	ug/L		11/18/24 15:38	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: MW-7-FAL24
Date Collected: 11/12/24 15:30
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-30
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/26/24 15:45	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 15:45	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/26/24 15:45	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 15:45	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 15:45	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/26/24 15:45	1
Bromomethane	10	U Q	20	10	3.7	ug/L		11/26/24 15:45	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/26/24 15:45	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/26/24 15:45	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/26/24 15:45	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 15:45	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 15:45	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/26/24 15:45	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/26/24 15:45	1
Chloroethane	10	U Q	20	10	4.6	ug/L		11/26/24 15:45	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 15:45	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/26/24 15:45	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/26/24 15:45	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 15:45	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/26/24 15:45	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/26/24 15:45	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 15:45	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 15:45	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 15:45	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 15:45	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 15:45	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 15:45	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 15:45	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/26/24 15:45	1
cis-1,2-Dichloroethene	**1.0**	**J**	2.0	1.0	0.25	ug/L		11/26/24 15:45	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 15:45	1
1,2-Dichloroethene, Total	**1.0**	**J**	2.0	1.0	0.37	ug/L		11/26/24 15:45	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 15:45	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/26/24 15:45	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 15:45	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 15:45	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 15:45	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 15:45	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/26/24 15:45	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 15:45	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/26/24 15:45	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/26/24 15:45	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 15:45	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/26/24 15:45	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/26/24 15:45	1
4-Methyl-2-pentanone (MIBK)	10	U M	20	10	2.7	ug/L		11/26/24 15:45	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 15:45	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/26/24 15:45	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 15:45	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: MW-7-FAL24
Date Collected: 11/12/24 15:30
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-30
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 15:45	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 15:45	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 15:45	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 15:45	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 15:45	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 15:45	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/26/24 15:45	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/26/24 15:45	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/26/24 15:45	1
Trichloroethene	**0.20**	**J**	1.0	0.50	0.20	ug/L		11/26/24 15:45	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 15:45	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/26/24 15:45	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 15:45	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 15:45	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/26/24 15:45	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 15:45	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 15:45	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 15:45	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*89 - 112*		*11/26/24 15:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*81 - 118*		*11/26/24 15:45*	*1*
4-Bromofluorobenzene (Surr)	*111*		*85 - 114*		*11/26/24 15:45*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*11/26/24 15:45*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**39000**		100	50	20	ug/L		11/18/24 23:40	1
Manganese	**12000**		10	5.0	1.3	ug/L		11/18/24 23:40	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**780**		5.0	3.0	0.86	ug/L		11/18/24 16:06	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: AOC50-RB-02-FAL24
Date Collected: 11/08/24 14:00
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-31
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 12:50	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 12:50	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 12:50	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 12:50	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 12:50	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 12:50	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 12:50	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 12:50	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 12:50	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 12:50	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 12:50	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 12:50	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 12:50	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 12:50	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 12:50	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 12:50	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 12:50	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 12:50	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 12:50	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 12:50	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 12:50	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:50	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 12:50	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 12:50	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 12:50	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 12:50	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 12:50	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:50	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 12:50	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 12:50	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 12:50	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 12:50	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:50	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 12:50	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 12:50	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 12:50	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 12:50	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 12:50	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 12:50	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 12:50	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 12:50	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 12:50	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 12:50	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 12:50	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 12:50	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 12:50	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 12:50	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 12:50	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 12:50	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: AOC50-RB-02-FAL24
Date Collected: 11/08/24 14:00
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-31
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 12:50	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 12:50	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 12:50	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 12:50	1
Toluene	**0.64**	**J**	2.0	1.0	0.25	ug/L		11/20/24 12:50	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 12:50	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 12:50	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 12:50	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 12:50	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 12:50	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:50	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 12:50	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 12:50	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 12:50	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 12:50	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 12:50	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 12:50	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 12:50	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*89 - 112*		*11/20/24 12:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*81 - 118*		*11/20/24 12:50*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*11/20/24 12:50*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 119*		*11/20/24 12:50*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/18/24 23:42	1
Manganese	5.0	U	10	5.0	1.3	ug/L		11/18/24 23:42	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		11/18/24 16:08	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: AOC50-RB-03-FAL24
Date Collected: 11/11/24 16:00
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-32
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 13:13	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 13:13	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 13:13	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 13:13	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 13:13	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 13:13	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 13:13	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 13:13	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 13:13	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 13:13	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 13:13	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 13:13	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 13:13	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 13:13	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 13:13	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 13:13	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 13:13	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 13:13	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 13:13	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 13:13	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 13:13	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 13:13	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 13:13	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 13:13	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 13:13	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 13:13	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 13:13	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 13:13	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 13:13	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 13:13	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 13:13	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 13:13	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 13:13	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 13:13	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 13:13	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 13:13	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 13:13	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 13:13	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 13:13	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 13:13	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 13:13	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 13:13	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 13:13	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 13:13	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 13:13	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 13:13	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 13:13	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 13:13	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 13:13	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: AOC50-RB-03-FAL24
Date Collected: 11/11/24 16:00
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-32
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 13:13	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 13:13	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 13:13	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 13:13	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 13:13	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 13:13	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 13:13	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 13:13	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 13:13	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 13:13	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 13:13	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 13:13	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 13:13	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 13:13	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 13:13	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 13:13	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 13:13	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 13:13	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*89 - 112*		*11/20/24 13:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*81 - 118*		*11/20/24 13:13*	*1*
4-Bromofluorobenzene (Surr)	*110*		*85 - 114*		*11/20/24 13:13*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*11/20/24 13:13*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/18/24 23:27	1
Manganese	5.0	U	10	5.0	1.3	ug/L		11/18/24 23:27	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		11/18/24 15:58	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: AOC50-RB-04-FAL24
Date Collected: 11/12/24 12:20
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-33
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 13:36	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 13:36	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 13:36	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 13:36	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 13:36	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 13:36	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 13:36	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 13:36	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 13:36	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 13:36	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 13:36	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 13:36	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 13:36	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 13:36	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 13:36	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 13:36	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 13:36	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 13:36	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 13:36	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 13:36	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 13:36	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 13:36	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 13:36	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 13:36	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 13:36	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 13:36	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 13:36	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 13:36	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 13:36	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 13:36	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 13:36	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 13:36	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 13:36	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 13:36	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 13:36	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 13:36	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 13:36	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 13:36	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 13:36	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 13:36	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 13:36	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 13:36	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 13:36	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 13:36	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 13:36	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 13:36	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 13:36	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 13:36	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 13:36	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: AOC50-RB-04-FAL24
Date Collected: 11/12/24 12:20
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-33
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 13:36	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 13:36	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 13:36	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 13:36	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 13:36	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 13:36	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 13:36	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 13:36	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 13:36	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 13:36	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 13:36	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 13:36	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 13:36	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 13:36	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 13:36	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 13:36	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 13:36	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 13:36	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*89 - 112*		*11/20/24 13:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*81 - 118*		*11/20/24 13:36*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*11/20/24 13:36*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*11/20/24 13:36*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/18/24 23:25	1
Manganese	5.0	U	10	5.0	1.3	ug/L		11/18/24 23:25	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		11/18/24 15:52	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: Trip Blank
Date Collected: 11/12/24 00:00
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-34
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	23	J	25	10	3.7	ug/L		11/20/24 14:04	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 13:59	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 13:59	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 13:59	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 13:59	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 13:59	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 13:59	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 13:59	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 13:59	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 13:59	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 13:59	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 13:59	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 13:59	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 13:59	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 13:59	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 13:59	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 13:59	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 13:59	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 13:59	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 13:59	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 13:59	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 13:59	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 13:59	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 13:59	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 13:59	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 13:59	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 13:59	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 13:59	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 13:59	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 13:59	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 13:59	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 13:59	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 13:59	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 13:59	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 13:59	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 13:59	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 13:59	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 13:59	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 13:59	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 13:59	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 13:59	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 13:59	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 13:59	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 13:59	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 13:59	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 13:59	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 13:59	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 13:59	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 13:59	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258683-1

Client Sample ID: Trip Blank
Date Collected: 11/12/24 00:00
Date Received: 11/15/24 10:11

Lab Sample ID: 680-258683-34
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 13:59	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 13:59	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 13:59	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 13:59	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 13:59	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 13:59	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 13:59	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 13:59	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 13:59	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 13:59	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 13:59	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 13:59	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 13:59	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 13:59	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/20/24 13:59	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 13:59	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 13:59	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 13:59	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*89 - 112*		*11/20/24 13:59*	*1*
Toluene-d8 (Surr)	*98*		*89 - 112*		*11/20/24 14:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*81 - 118*		*11/20/24 13:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*81 - 118*		*11/20/24 14:04*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*11/20/24 13:59*	*1*
4-Bromofluorobenzene (Surr)	*102*		*85 - 114*		*11/20/24 14:04*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*11/20/24 13:59*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*11/20/24 14:04*	*1*

Method: 8260D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-865326/9
Matrix: Water
Analysis Batch: 865326

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 12:28	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 12:28	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 12:28	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 12:28	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 12:28	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 12:28	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 12:28	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 12:28	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 12:28	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 12:28	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 12:28	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 12:28	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 12:28	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/20/24 12:28	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 12:28	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 12:28	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 12:28	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 12:28	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 12:28	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 12:28	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 12:28	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:28	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 12:28	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 12:28	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 12:28	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 12:28	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 12:28	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:28	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 12:28	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 12:28	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 12:28	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 12:28	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:28	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 12:28	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 12:28	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 12:28	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 12:28	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 12:28	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 12:28	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 12:28	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 12:28	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 12:28	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 12:28	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 12:28	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 12:28	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 12:28	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 12:28	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 12:28	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-865326/9
Matrix: Water
Analysis Batch: 865326

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
N-Propylbenzene	1.0	U M	2.0	1.0	0.41	ug/L		11/20/24 12:28	1
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 12:28	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 12:28	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 12:28	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 12:28	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 12:28	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 12:28	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 12:28	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 12:28	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 12:28	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 12:28	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:28	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 12:28	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 12:28	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 12:28	1
Vinyl acetate	2.0	U	2.5	2.0	0.69	ug/L		11/20/24 12:28	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 12:28	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 12:28	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 12:28	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 12:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*89 - 112*		*11/20/24 12:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*81 - 118*		*11/20/24 12:28*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*11/20/24 12:28*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 119*		*11/20/24 12:28*	*1*

Lab Sample ID: LCS 680-865326/4
Matrix: Water
Analysis Batch: 865326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	245		ug/L		98	39 - 160
Benzene	50.0	51.0		ug/L		102	79 - 120
Bromobenzene	50.0	50.7		ug/L		101	80 - 120
Chlorobromomethane	50.0	51.9		ug/L		104	78 - 123
Dichlorobromomethane	50.0	51.3		ug/L		103	79 - 125
Bromoform	50.0	47.3		ug/L		95	66 - 130
Bromomethane	50.0	52.1		ug/L		104	53 - 141
2-Butanone (MEK)	250	246		ug/L		99	56 - 143
n-Butylbenzene	50.0	52.6		ug/L		105	75 - 128
sec-Butylbenzene	50.0	52.4		ug/L		105	77 - 126
tert-Butylbenzene	50.0	52.2		ug/L		104	78 - 124
Carbon disulfide	50.0	52.9		ug/L		106	64 - 133
Carbon tetrachloride	50.0	54.4		ug/L		109	72 - 136
Chlorobenzene	50.0	49.7		ug/L		99	82 - 118
Chloroethane	50.0	52.3		ug/L		105	60 - 138
Chloroform	50.0	50.6		ug/L		101	79 - 124

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-865326/4
Matrix: Water
Analysis Batch: 865326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	50.0	49.1		ug/L		98	50 - 139
2-Chlorotoluene	50.0	50.6		ug/L		101	79 - 122
4-Chlorotoluene	50.0	50.5		ug/L		101	78 - 122
Chlorodibromomethane	50.0	47.9		ug/L		96	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	52.6		ug/L		105	62 - 128
Ethylene Dibromide	50.0	51.0		ug/L		102	75 - 127
Dibromomethane	50.0	49.2		ug/L		98	79 - 123
1,2-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 119
1,3-Dichlorobenzene	50.0	50.1		ug/L		100	80 - 119
1,4-Dichlorobenzene	50.0	48.9		ug/L		98	79 - 118
Dichlorodifluoromethane	50.0	54.8		ug/L		110	32 - 152
1,1-Dichloroethane	50.0	51.7		ug/L		103	77 - 125
1,2-Dichloroethane	50.0	49.8		ug/L		100	73 - 128
cis-1,2-Dichloroethene	50.0	51.9		ug/L		104	78 - 123
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	75 - 124
1,2-Dichloroethene, Total	100	104		ug/L		104	79 - 121
1,1-Dichloroethene	50.0	53.4		ug/L		107	71 - 131
1,2-Dichloropropane	50.0	51.2		ug/L		102	78 - 122
1,3-Dichloropropane	50.0	49.8		ug/L		100	80 - 119
2,2-Dichloropropane	50.0	55.9		ug/L		112	60 - 139
1,1-Dichloropropene	50.0	52.1		ug/L		104	79 - 125
cis-1,3-Dichloropropene	50.0	53.3		ug/L		107	75 - 124
trans-1,3-Dichloropropene	50.0	49.4		ug/L		99	73 - 127
Ethylbenzene	50.0	49.9		ug/L		100	79 - 121
Hexachlorobutadiene	50.0	53.1		ug/L		106	66 - 134
2-Hexanone	250	249		ug/L		100	57 - 139
Isopropylbenzene	50.0	52.2		ug/L		104	72 - 131
4-Isopropyltoluene	50.0	52.6		ug/L		105	77 - 127
Methylene Chloride	50.0	51.5		ug/L		103	74 - 124
4-Methyl-2-pentanone (MIBK)	250	244		ug/L		98	67 - 130
Methyl tert-butyl ether	50.0	51.1		ug/L		102	71 - 124
Naphthalene	50.0	46.1		ug/L		92	61 - 128
N-Propylbenzene	50.0	52.5		ug/L		105	76 - 126
Styrene	50.0	52.3		ug/L		105	78 - 123
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/L		102	78 - 124
1,1,2,2-Tetrachloroethane	50.0	53.8		ug/L		108	71 - 121
Tetrachloroethene	50.0	49.5		ug/L		99	74 - 129
Toluene	50.0	49.6		ug/L		99	80 - 121
1,2,3-Trichlorobenzene	50.0	52.0		ug/L		104	69 - 129
1,2,4-Trichlorobenzene	50.0	52.1		ug/L		104	69 - 130
1,1,1-Trichloroethane	50.0	51.8		ug/L		104	74 - 131
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	80 - 119
Trichloroethene	50.0	49.5		ug/L		99	79 - 123
Trichlorofluoromethane	50.0	58.2		ug/L		116	65 - 141
1,2,3-Trichloropropane	50.0	48.3		ug/L		97	73 - 122
1,2,4-Trimethylbenzene	50.0	51.2		ug/L		102	76 - 124
1,3,5-Trimethylbenzene	50.0	51.1		ug/L		102	75 - 124
Vinyl acetate	100	223	Q	ug/L		223	54 - 146
Vinyl chloride	50.0	55.0		ug/L		110	58 - 137

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-865326/4
Matrix: Water
Analysis Batch: 865326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	50.0	50.4		ug/L		101	78 - 122
m-Xylene & p-Xylene	50.0	49.5		ug/L		99	80 - 121
Xylenes, Total	100	99.9		ug/L		100	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*
4-Bromofluorobenzene (Surr)	*101*		*85 - 114*
Dibromofluoromethane (Surr)	*104*		*80 - 119*

Lab Sample ID: LCSD 680-865326/5
Matrix: Water
Analysis Batch: 865326

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
Acetone	250	259		ug/L		104	39 - 160	6	20
Benzene	50.0	51.1		ug/L		102	79 - 120	0	20
Bromobenzene	50.0	50.5		ug/L		101	80 - 120	0	20
Chlorobromomethane	50.0	52.1		ug/L		104	78 - 123	0	20
Dichlorobromomethane	50.0	52.7		ug/L		105	79 - 125	3	20
Bromoform	50.0	48.3		ug/L		97	66 - 130	2	20
Bromomethane	50.0	52.0		ug/L		104	53 - 141	0	20
2-Butanone (MEK)	250	261		ug/L		104	56 - 143	6	20
n-Butylbenzene	50.0	51.9		ug/L		104	75 - 128	1	20
sec-Butylbenzene	50.0	51.9		ug/L		104	77 - 126	1	20
tert-Butylbenzene	50.0	51.6		ug/L		103	78 - 124	1	20
Carbon disulfide	50.0	52.1		ug/L		104	64 - 133	2	20
Carbon tetrachloride	50.0	53.5		ug/L		107	72 - 136	2	20
Chlorobenzene	50.0	49.7		ug/L		99	82 - 118	0	20
Chloroethane	50.0	51.6		ug/L		103	60 - 138	1	20
Chloroform	50.0	51.1		ug/L		102	79 - 124	1	20
Chloromethane	50.0	49.0		ug/L		98	50 - 139	0	20
2-Chlorotoluene	50.0	50.2		ug/L		100	79 - 122	1	20
4-Chlorotoluene	50.0	50.0		ug/L		100	78 - 122	1	20
Chlorodibromomethane	50.0	49.3		ug/L		99	74 - 126	3	20
1,2-Dibromo-3-Chloropropane	50.0	54.5		ug/L		109	62 - 128	4	20
Ethylene Dibromide	50.0	52.1		ug/L		104	75 - 127	2	20
Dibromomethane	50.0	51.6		ug/L		103	79 - 123	5	20
1,2-Dichlorobenzene	50.0	50.0		ug/L		100	80 - 119	1	20
1,3-Dichlorobenzene	50.0	49.9		ug/L		100	80 - 119	0	20
1,4-Dichlorobenzene	50.0	49.2		ug/L		98	79 - 118	0	20
Dichlorodifluoromethane	50.0	54.8		ug/L		110	32 - 152	0	20
1,1-Dichloroethane	50.0	52.3		ug/L		105	77 - 125	1	20
1,2-Dichloroethane	50.0	51.0		ug/L		102	73 - 128	2	20
cis-1,2-Dichloroethene	50.0	52.3		ug/L		105	78 - 123	1	20
trans-1,2-Dichloroethene	50.0	51.5		ug/L		103	75 - 124	0	20
1,2-Dichloroethene, Total	100	104		ug/L		104	79 - 121	0	20
1,1-Dichloroethene	50.0	53.0		ug/L		106	71 - 131	1	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-865326/5
Matrix: Water
Analysis Batch: 865326

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
1,2-Dichloropropane	50.0	51.8		ug/L		104	78 - 122	1	20
1,3-Dichloropropane	50.0	51.5		ug/L		103	80 - 119	3	20
2,2-Dichloropropane	50.0	55.1		ug/L		110	60 - 139	1	20
1,1-Dichloropropene	50.0	52.0		ug/L		104	79 - 125	0	20
cis-1,3-Dichloropropene	50.0	54.6		ug/L		109	75 - 124	2	20
trans-1,3-Dichloropropene	50.0	50.7		ug/L		101	73 - 127	3	20
Ethylbenzene	50.0	50.3		ug/L		101	79 - 121	1	20
Hexachlorobutadiene	50.0	52.0		ug/L		104	66 - 134	2	20
2-Hexanone	250	260		ug/L		104	57 - 139	4	20
Isopropylbenzene	50.0	52.3		ug/L		105	72 - 131	0	20
4-Isopropyltoluene	50.0	51.9		ug/L		104	77 - 127	1	20
Methylene Chloride	50.0	52.7		ug/L		105	74 - 124	2	20
4-Methyl-2-pentanone (MIBK)	250	256		ug/L		103	67 - 130	5	20
Methyl tert-butyl ether	50.0	53.5		ug/L		107	71 - 124	5	20
Naphthalene	50.0	47.4		ug/L		95	61 - 128	3	20
N-Propylbenzene	50.0	51.9		ug/L		104	76 - 126	1	20
Styrene	50.0	52.2		ug/L		104	78 - 123	0	20
1,1,1,2-Tetrachloroethane	50.0	51.4		ug/L		103	78 - 124	1	20
1,1,2,2-Tetrachloroethane	50.0	55.3		ug/L		111	71 - 121	3	20
Tetrachloroethene	50.0	50.1		ug/L		100	74 - 129	1	20
Toluene	50.0	49.8		ug/L		100	80 - 121	1	20
1,2,3-Trichlorobenzene	50.0	51.9		ug/L		104	69 - 129	0	20
1,2,4-Trichlorobenzene	50.0	52.8		ug/L		106	69 - 130	1	20
1,1,1-Trichloroethane	50.0	51.8		ug/L		104	74 - 131	0	20
1,1,2-Trichloroethane	50.0	51.2		ug/L		102	80 - 119	2	20
Trichloroethene	50.0	49.8		ug/L		100	79 - 123	1	20
Trichlorofluoromethane	50.0	56.8		ug/L		114	65 - 141	2	20
1,2,3-Trichloropropane	50.0	49.3		ug/L		99	73 - 122	2	20
1,2,4-Trimethylbenzene	50.0	51.0		ug/L		102	76 - 124	1	20
1,3,5-Trimethylbenzene	50.0	51.3		ug/L		103	75 - 124	0	20
Vinyl acetate	100	218	Q	ug/L		218	54 - 146	2	20
Vinyl chloride	50.0	53.9		ug/L		108	58 - 137	2	20
o-Xylene	50.0	50.5		ug/L		101	78 - 122	0	20
m-Xylene & p-Xylene	50.0	49.4		ug/L		99	80 - 121	0	20
Xylenes, Total	100	99.9		ug/L		100	79 - 121	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*
Dibromofluoromethane (Surr)	*104*		*80 - 119*

Lab Sample ID: MB 680-865335/9
Matrix: Water
Analysis Batch: 865335

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/20/24 12:35	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-865335/9
Matrix: Water
Analysis Batch: 865335

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 12:35	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/20/24 12:35	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 12:35	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 12:35	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/20/24 12:35	1
Bromomethane	10	U	20	10	3.7	ug/L		11/20/24 12:35	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/20/24 12:35	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/20/24 12:35	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/20/24 12:35	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 12:35	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 12:35	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/20/24 12:35	1
Chlorobenzene	0.50	U M	1.0	0.50	0.15	ug/L		11/20/24 12:35	1
Chloroethane	10	U	20	10	4.6	ug/L		11/20/24 12:35	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 12:35	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/20/24 12:35	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/20/24 12:35	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 12:35	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/20/24 12:35	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/20/24 12:35	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:35	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 12:35	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 12:35	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 12:35	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/20/24 12:35	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 12:35	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:35	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 12:35	1
cis-1,2-Dichloroethene	1.0	U M	2.0	1.0	0.25	ug/L		11/20/24 12:35	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/20/24 12:35	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/20/24 12:35	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:35	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/20/24 12:35	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 12:35	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 12:35	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 12:35	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 12:35	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/20/24 12:35	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 12:35	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/20/24 12:35	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/20/24 12:35	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 12:35	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/20/24 12:35	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/20/24 12:35	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/20/24 12:35	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 12:35	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/20/24 12:35	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/20/24 12:35	1
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/20/24 12:35	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-865335/9
Matrix: Water
Analysis Batch: 865335

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/20/24 12:35	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 12:35	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/20/24 12:35	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/20/24 12:35	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/20/24 12:35	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/20/24 12:35	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/20/24 12:35	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/20/24 12:35	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/20/24 12:35	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/20/24 12:35	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/20/24 12:35	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/20/24 12:35	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/20/24 12:35	1
Vinyl acetate	2.0	U	2.5	2.0	0.69	ug/L		11/20/24 12:35	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/20/24 12:35	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/20/24 12:35	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 12:35	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/20/24 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*89 - 112*		*11/20/24 12:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*11/20/24 12:35*	*1*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*		*11/20/24 12:35*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*11/20/24 12:35*	*1*

Lab Sample ID: LCS 680-865335/3
Matrix: Water
Analysis Batch: 865335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	224		ug/L		90	39 - 160
Benzene	50.0	48.7		ug/L		97	79 - 120
Bromobenzene	50.0	53.4		ug/L		107	80 - 120
Chlorobromomethane	50.0	48.0		ug/L		96	78 - 123
Dichlorobromomethane	50.0	51.1		ug/L		102	79 - 125
Bromoform	50.0	43.7		ug/L		87	66 - 130
Bromomethane	50.0	49.1		ug/L		98	53 - 141
2-Butanone (MEK)	250	231		ug/L		92	56 - 143
n-Butylbenzene	50.0	47.5		ug/L		95	75 - 128
sec-Butylbenzene	50.0	52.8		ug/L		106	77 - 126
tert-Butylbenzene	50.0	48.7		ug/L		97	78 - 124
Carbon disulfide	50.0	48.3		ug/L		97	64 - 133
Carbon tetrachloride	50.0	46.6		ug/L		93	72 - 136
Chlorobenzene	50.0	50.6		ug/L		101	82 - 118
Chloroethane	50.0	41.2		ug/L		82	60 - 138
Chloroform	50.0	47.8		ug/L		96	79 - 124
Chloromethane	50.0	44.6		ug/L		89	50 - 139
2-Chlorotoluene	50.0	49.6		ug/L		99	79 - 122

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-865335/3
Matrix: Water
Analysis Batch: 865335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorotoluene	50.0	52.5		ug/L		105	78 - 122
Chlorodibromomethane	50.0	44.7		ug/L		89	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	44.4		ug/L		89	62 - 128
Ethylene Dibromide	50.0	51.6		ug/L		103	75 - 127
Dibromomethane	50.0	47.9		ug/L		96	79 - 123
1,2-Dichlorobenzene	50.0	50.6		ug/L		101	80 - 119
1,3-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 119
1,4-Dichlorobenzene	50.0	48.0		ug/L		96	79 - 118
Dichlorodifluoromethane	50.0	52.8		ug/L		106	32 - 152
1,1-Dichloroethane	50.0	49.5		ug/L		99	77 - 125
1,2-Dichloroethane	50.0	48.0		ug/L		96	73 - 128
cis-1,2-Dichloroethene	50.0	53.5		ug/L		107	78 - 123
trans-1,2-Dichloroethene	50.0	49.2		ug/L		98	75 - 124
1,2-Dichloroethene, Total	100	103		ug/L		103	79 - 121
1,1-Dichloroethene	50.0	50.3		ug/L		101	71 - 131
1,2-Dichloropropane	50.0	47.7		ug/L		95	78 - 122
1,3-Dichloropropane	50.0	48.8		ug/L		98	80 - 119
2,2-Dichloropropane	50.0	52.0	M	ug/L		104	60 - 139
1,1-Dichloropropene	50.0	48.1		ug/L		96	79 - 125
cis-1,3-Dichloropropene	50.0	47.0		ug/L		94	75 - 124
trans-1,3-Dichloropropene	50.0	47.3		ug/L		95	73 - 127
Ethylbenzene	50.0	52.5		ug/L		105	79 - 121
Hexachlorobutadiene	50.0	47.9		ug/L		96	66 - 134
2-Hexanone	250	242		ug/L		97	57 - 139
Isopropylbenzene	50.0	50.1		ug/L		100	72 - 131
4-Isopropyltoluene	50.0	50.8		ug/L		102	77 - 127
Methylene Chloride	50.0	48.9		ug/L		98	74 - 124
4-Methyl-2-pentanone (MIBK)	250	245		ug/L		98	67 - 130
Methyl tert-butyl ether	50.0	48.5		ug/L		97	71 - 124
Naphthalene	50.0	51.6	M	ug/L		103	61 - 128
N-Propylbenzene	50.0	54.7		ug/L		109	76 - 126
Styrene	50.0	48.9		ug/L		98	78 - 123
1,1,1,2-Tetrachloroethane	50.0	47.1		ug/L		94	78 - 124
1,1,2,2-Tetrachloroethane	50.0	55.4		ug/L		111	71 - 121
Tetrachloroethene	50.0	47.3		ug/L		95	74 - 129
Toluene	50.0	50.4		ug/L		101	80 - 121
1,2,3-Trichlorobenzene	50.0	52.3		ug/L		105	69 - 129
1,2,4-Trichlorobenzene	50.0	53.4		ug/L		107	69 - 130
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	74 - 131
1,1,2-Trichloroethane	50.0	47.7		ug/L		95	80 - 119
Trichloroethene	50.0	47.9		ug/L		96	79 - 123
Trichlorofluoromethane	50.0	49.9		ug/L		100	65 - 141
1,2,3-Trichloropropane	50.0	52.0		ug/L		104	73 - 122
1,2,4-Trimethylbenzene	50.0	51.9		ug/L		104	76 - 124
1,3,5-Trimethylbenzene	50.0	52.8		ug/L		106	75 - 124
Vinyl acetate	100	189	Q	ug/L		189	54 - 146
Vinyl chloride	50.0	40.5		ug/L		81	58 - 137
o-Xylene	50.0	52.7		ug/L		105	78 - 122
m-Xylene & p-Xylene	50.0	53.5		ug/L		107	80 - 121

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-865335/3
Matrix: Water
Analysis Batch: 865335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	106		ug/L		106	79 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*97*		*81 - 118*
4-Bromofluorobenzene (Surr)	*97*		*85 - 114*
Dibromofluoromethane (Surr)	*102*		*80 - 119*

Lab Sample ID: LCSD 680-865335/4
Matrix: Water
Analysis Batch: 865335

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
Acetone			250	221		ug/L		88	39 - 160	2	20
Benzene			50.0	48.0		ug/L		96	79 - 120	1	20
Bromobenzene			50.0	55.0		ug/L		110	80 - 120	3	20
Chlorobromomethane			50.0	46.6		ug/L		93	78 - 123	3	20
Dichlorobromomethane			50.0	50.9		ug/L		102	79 - 125	0	20
Bromoform			50.0	45.0		ug/L		90	66 - 130	3	20
Bromomethane			50.0	48.9	M	ug/L		98	53 - 141	1	20
2-Butanone (MEK)			250	226		ug/L		91	56 - 143	2	20
n-Butylbenzene			50.0	48.8		ug/L		98	75 - 128	3	20
sec-Butylbenzene			50.0	53.6		ug/L		107	77 - 126	2	20
tert-Butylbenzene			50.0	50.3		ug/L		101	78 - 124	3	20
Carbon disulfide			50.0	48.9		ug/L		98	64 - 133	1	20
Carbon tetrachloride			50.0	47.3		ug/L		95	72 - 136	1	20
Chlorobenzene			50.0	51.6		ug/L		103	82 - 118	2	20
Chloroethane			50.0	43.1		ug/L		86	60 - 138	4	20
Chloroform			50.0	48.3		ug/L		97	79 - 124	1	20
Chloromethane			50.0	46.0		ug/L		92	50 - 139	3	20
2-Chlorotoluene			50.0	51.3		ug/L		103	79 - 122	3	20
4-Chlorotoluene			50.0	53.3		ug/L		107	78 - 122	1	20
Chlorodibromomethane			50.0	43.0		ug/L		86	74 - 126	4	20
1,2-Dibromo-3-Chloropropane			50.0	46.0		ug/L		92	62 - 128	4	20
Ethylene Dibromide			50.0	50.4		ug/L		101	75 - 127	2	20
Dibromomethane			50.0	45.9		ug/L		92	79 - 123	4	20
1,2-Dichlorobenzene			50.0	51.7		ug/L		103	80 - 119	2	20
1,3-Dichlorobenzene			50.0	50.6		ug/L		101	80 - 119	0	20
1,4-Dichlorobenzene			50.0	48.9		ug/L		98	79 - 118	2	20
Dichlorodifluoromethane			50.0	58.9		ug/L		118	32 - 152	11	20
1,1-Dichloroethane			50.0	48.4		ug/L		97	77 - 125	2	20
1,2-Dichloroethane			50.0	46.8		ug/L		94	73 - 128	3	20
cis-1,2-Dichloroethene			50.0	51.9		ug/L		104	78 - 123	3	20
trans-1,2-Dichloroethene			50.0	49.9		ug/L		100	75 - 124	1	20
1,2-Dichloroethene, Total			100	102		ug/L		102	79 - 121	1	20
1,1-Dichloroethene			50.0	49.8		ug/L		100	71 - 131	1	20
1,2-Dichloropropane			50.0	45.9		ug/L		92	78 - 122	4	20
1,3-Dichloropropane			50.0	47.9		ug/L		96	80 - 119	2	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-865335/4
Matrix: Water
Analysis Batch: 865335

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
2,2-Dichloropropane			50.0	51.1	M	ug/L		102	60 - 139	2	20
1,1-Dichloropropene			50.0	47.8		ug/L		96	79 - 125	1	20
cis-1,3-Dichloropropene			50.0	46.6		ug/L		93	75 - 124	1	20
trans-1,3-Dichloropropene			50.0	46.3		ug/L		93	73 - 127	2	20
Ethylbenzene			50.0	53.4		ug/L		107	79 - 121	2	20
Hexachlorobutadiene			50.0	52.0		ug/L		104	66 - 134	8	20
2-Hexanone			250	237		ug/L		95	57 - 139	2	20
Isopropylbenzene			50.0	50.5		ug/L		101	72 - 131	1	20
4-Isopropyltoluene			50.0	52.2		ug/L		104	77 - 127	3	20
Methylene Chloride			50.0	47.8		ug/L		96	74 - 124	2	20
4-Methyl-2-pentanone (MIBK)			250	239		ug/L		96	67 - 130	3	20
Methyl tert-butyl ether			50.0	46.7		ug/L		93	71 - 124	4	20
Naphthalene			50.0	52.9		ug/L		106	61 - 128	3	20
N-Propylbenzene			50.0	56.3		ug/L		113	76 - 126	3	20
Styrene			50.0	49.3		ug/L		99	78 - 123	1	20
1,1,1,2-Tetrachloroethane			50.0	48.7		ug/L		97	78 - 124	3	20
1,1,2,2-Tetrachloroethane			50.0	56.6		ug/L		113	71 - 121	2	20
Tetrachloroethene			50.0	48.3		ug/L		97	74 - 129	2	20
Toluene			50.0	49.6		ug/L		99	80 - 121	2	20
1,2,3-Trichlorobenzene			50.0	54.4		ug/L		109	69 - 129	4	20
1,2,4-Trichlorobenzene			50.0	54.5		ug/L		109	69 - 130	2	20
1,1,1-Trichloroethane			50.0	52.1		ug/L		104	74 - 131	0	20
1,1,2-Trichloroethane			50.0	45.6		ug/L		91	80 - 119	5	20
Trichloroethene			50.0	48.6		ug/L		97	79 - 123	2	20
Trichlorofluoromethane			50.0	50.3		ug/L		101	65 - 141	1	20
1,2,3-Trichloropropane			50.0	53.8		ug/L		108	73 - 122	3	20
1,2,4-Trimethylbenzene			50.0	53.7		ug/L		107	76 - 124	4	20
1,3,5-Trimethylbenzene			50.0	53.4		ug/L		107	75 - 124	1	20
Vinyl acetate			100	172	Q	ug/L		172	54 - 146	9	20
Vinyl chloride			50.0	47.3	M	ug/L		95	58 - 137	15	20
o-Xylene			50.0	54.2		ug/L		108	78 - 122	3	20
m-Xylene & p-Xylene			50.0	53.6		ug/L		107	80 - 121	0	20
Xylenes, Total			100	108		ug/L		108	79 - 121	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*92*		*81 - 118*
4-Bromofluorobenzene (Surr)	*97*		*85 - 114*
Dibromofluoromethane (Surr)	*100*		*80 - 119*

Lab Sample ID: 680-258683-15 MS
Matrix: Water
Analysis Batch: 865335

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	10	U	250	209		ug/L		84	39 - 160
Benzene	1.0	U	50.0	44.4		ug/L		89	79 - 120
Bromobenzene	0.50	U	50.0	49.1		ug/L		98	80 - 120

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-258683-15 MS
Matrix: Water
Analysis Batch: 865335

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobromomethane	1.0	U	50.0	44.3		ug/L		89	78 - 123
Dichlorobromomethane	1.0	U	50.0	48.8		ug/L		98	79 - 125
Bromoform	2.0	U	50.0	46.9		ug/L		94	66 - 130
Bromomethane	10	U J1	50.0	87.2	J1	ug/L		174	53 - 141
2-Butanone (MEK)	20	U	250	216		ug/L		86	56 - 143
n-Butylbenzene	2.0	U	50.0	42.9		ug/L		86	75 - 128
sec-Butylbenzene	2.0	U	50.0	49.3		ug/L		99	77 - 126
tert-Butylbenzene	1.0	U	50.0	45.6		ug/L		91	78 - 124
Carbon disulfide	1.0	U	50.0	46.1		ug/L		92	64 - 133
Carbon tetrachloride	1.0	U	50.0	43.8		ug/L		88	72 - 136
Chlorobenzene	0.50	U	50.0	44.9		ug/L		90	82 - 118
Chloroethane	10	U M	50.0	35.1		ug/L		70	60 - 138
Chloroform	1.0	U	50.0	44.4		ug/L		89	79 - 124
Chloromethane	2.0	U	50.0	40.9		ug/L		82	50 - 139
2-Chlorotoluene	0.50	U	50.0	46.5		ug/L		93	79 - 122
4-Chlorotoluene	1.0	U	50.0	48.1		ug/L		96	78 - 122
Chlorodibromomethane	1.0	U	50.0	43.5		ug/L		87	74 - 126
1,2-Dibromo-3-Chloropropane	5.0	U	50.0	43.0		ug/L		86	62 - 128
Ethylene Dibromide	1.0	U	50.0	44.6		ug/L		89	75 - 127
Dibromomethane	1.0	U	50.0	42.2		ug/L		84	79 - 123
1,2-Dichlorobenzene	1.0	U	50.0	46.8		ug/L		94	80 - 119
1,3-Dichlorobenzene	1.0	U	50.0	45.6		ug/L		91	80 - 119
1,4-Dichlorobenzene	1.0	U	50.0	44.8		ug/L		90	79 - 118
Dichlorodifluoromethane	1.0	U	50.0	62.1		ug/L		124	32 - 152
1,1-Dichloroethane	1.0	U	50.0	46.9		ug/L		94	77 - 125
1,2-Dichloroethane	1.0	U	50.0	44.5		ug/L		89	73 - 128
cis-1,2-Dichloroethene	0.91	J	50.0	48.6		ug/L		95	78 - 123
trans-1,2-Dichloroethene	1.0	U	50.0	43.0		ug/L		86	75 - 124
1,2-Dichloroethene, Total	0.91	J	100	91.6		ug/L		91	79 - 121
1,1-Dichloroethene	1.0	U	50.0	45.0		ug/L		90	71 - 131
1,2-Dichloropropane	0.50	U	50.0	43.9		ug/L		88	78 - 122
1,3-Dichloropropane	1.0	U	50.0	45.5		ug/L		91	80 - 119
2,2-Dichloropropane	1.0	U	50.0	45.4		ug/L		91	60 - 139
1,1-Dichloropropene	1.0	U	50.0	44.9		ug/L		90	79 - 125
cis-1,3-Dichloropropene	1.0	U	50.0	39.5		ug/L		79	75 - 124
trans-1,3-Dichloropropene	1.0	U	50.0	44.0		ug/L		88	73 - 127
Ethylbenzene	0.50	U	50.0	49.5		ug/L		99	79 - 121
Hexachlorobutadiene	1.0	U	50.0	43.3		ug/L		87	66 - 134
2-Hexanone	10	U	250	225		ug/L		90	57 - 139
Isopropylbenzene	1.0	U	50.0	51.8		ug/L		104	72 - 131
4-Isopropyltoluene	1.0	U	50.0	46.8		ug/L		94	77 - 127
Methylene Chloride	10	U	50.0	44.1		ug/L		88	74 - 124
4-Methyl-2-pentanone (MIBK)	10	U	250	225		ug/L		90	67 - 130
Methyl tert-butyl ether	2.0	U	50.0	43.5		ug/L		87	71 - 124
Naphthalene	5.0	U J1	50.0	40.1		ug/L		80	61 - 128
N-Propylbenzene	1.0	U	50.0	51.4		ug/L		103	76 - 126
Styrene	1.0	U	50.0	46.8		ug/L		94	78 - 123
1,1,1,2-Tetrachloroethane	1.0	U	50.0	46.0		ug/L		92	78 - 124
1,1,2,2-Tetrachloroethane	1.0	U	50.0	51.0		ug/L		102	71 - 121

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-258683-15 MS
Matrix: Water
Analysis Batch: 865335

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	1.0	U	50.0	45.3		ug/L		91	74 - 129
Toluene	1.0	U	50.0	46.5		ug/L		93	80 - 121
1,2,3-Trichlorobenzene	2.0	U J1	50.0	40.1		ug/L		80	69 - 129
1,2,4-Trichlorobenzene	2.0	U J1	50.0	42.3		ug/L		85	69 - 130
1,1,1-Trichloroethane	0.50	U	50.0	49.0		ug/L		98	74 - 131
1,1,2-Trichloroethane	1.0	U	50.0	42.1		ug/L		84	80 - 119
Trichloroethene	0.50	U	50.0	43.2		ug/L		86	79 - 123
Trichlorofluoromethane	1.0	U J1	50.0	45.1		ug/L		90	65 - 141
1,2,3-Trichloropropane	1.0	U	50.0	46.9		ug/L		94	73 - 122
1,2,4-Trimethylbenzene	1.0	U	50.0	49.1		ug/L		98	76 - 124
1,3,5-Trimethylbenzene	1.0	U	50.0	50.5		ug/L		101	75 - 124
Vinyl acetate	2.0	U M Q J1	100	180	J1	ug/L		180	54 - 146
Vinyl chloride	1.0	U M	50.0	47.9		ug/L		96	58 - 137
o-Xylene	1.0	U	50.0	49.5		ug/L		99	78 - 122
m-Xylene & p-Xylene	1.0	U	50.0	49.9		ug/L		100	80 - 121
Xylenes, Total	1.0	U	100	99.4		ug/L		99	79 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*83*		*81 - 118*
4-Bromofluorobenzene (Surr)	*95*		*85 - 114*
Dibromofluoromethane (Surr)	*92*		*80 - 119*

Lab Sample ID: 680-258683-15 MSD
Matrix: Water
Analysis Batch: 865335

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	10	U	250	233		ug/L		93	39 - 160	11	20
Benzene	1.0	U	50.0	49.8		ug/L		100	79 - 120	12	20
Bromobenzene	0.50	U	50.0	58.4		ug/L		117	80 - 120	17	20
Chlorobromomethane	1.0	U	50.0	50.6		ug/L		101	78 - 123	13	20
Dichlorobromomethane	1.0	U	50.0	57.1		ug/L		114	79 - 125	16	20
Bromoform	2.0	U	50.0	56.0		ug/L		112	66 - 130	18	20
Bromomethane	10	U J1	50.0	108	J1	ug/L		216	53 - 141	21	20
2-Butanone (MEK)	20	U	250	240		ug/L		96	56 - 143	10	20
n-Butylbenzene	2.0	U	50.0	50.4		ug/L		101	75 - 128	16	20
sec-Butylbenzene	2.0	U	50.0	56.4		ug/L		113	77 - 126	13	20
tert-Butylbenzene	1.0	U	50.0	52.8		ug/L		106	78 - 124	14	20
Carbon disulfide	1.0	U	50.0	51.8		ug/L		104	64 - 133	12	20
Carbon tetrachloride	1.0	U	50.0	50.5		ug/L		101	72 - 136	14	20
Chlorobenzene	0.50	U	50.0	52.7		ug/L		105	82 - 118	16	20
Chloroethane	10	U M	50.0	37.9		ug/L		76	60 - 138	8	20
Chloroform	1.0	U	50.0	51.6		ug/L		103	79 - 124	15	20
Chloromethane	2.0	U	50.0	47.8		ug/L		96	50 - 139	16	20
2-Chlorotoluene	0.50	U	50.0	54.4		ug/L		109	79 - 122	16	20
4-Chlorotoluene	1.0	U	50.0	56.5		ug/L		113	78 - 122	16	20
Chlorodibromomethane	1.0	U	50.0	49.7		ug/L		99	74 - 126	13	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-258683-15 MSD
Matrix: Water
Analysis Batch: 865335

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	5.0	U	50.0	50.7		ug/L		101	62 - 128	16	20
Ethylene Dibromide	1.0	U	50.0	52.1		ug/L		104	75 - 127	16	20
Dibromomethane	1.0	U	50.0	49.4		ug/L		99	79 - 123	16	20
1,2-Dichlorobenzene	1.0	U	50.0	55.1		ug/L		110	80 - 119	16	20
1,3-Dichlorobenzene	1.0	U	50.0	53.7		ug/L		107	80 - 119	16	20
1,4-Dichlorobenzene	1.0	U	50.0	52.8		ug/L		106	79 - 118	16	20
Dichlorodifluoromethane	1.0	U	50.0	60.7		ug/L		121	32 - 152	2	20
1,1-Dichloroethane	1.0	U	50.0	52.0		ug/L		104	77 - 125	10	20
1,2-Dichloroethane	1.0	U	50.0	50.0		ug/L		100	73 - 128	12	20
cis-1,2-Dichloroethene	0.91	J	50.0	53.9		ug/L		106	78 - 123	10	20
trans-1,2-Dichloroethene	1.0	U	50.0	52.2		ug/L		104	75 - 124	19	20
1,2-Dichloroethene, Total	0.91	J	100	106		ug/L		105	79 - 121	15	20
1,1-Dichloroethene	1.0	U	50.0	51.5		ug/L		103	71 - 131	13	20
1,2-Dichloropropane	0.50	U	50.0	48.0		ug/L		96	78 - 122	9	20
1,3-Dichloropropane	1.0	U	50.0	50.0		ug/L		100	80 - 119	9	20
2,2-Dichloropropane	1.0	U	50.0	50.1		ug/L		100	60 - 139	10	20
1,1-Dichloropropene	1.0	U	50.0	49.2		ug/L		98	79 - 125	9	20
cis-1,3-Dichloropropene	1.0	U	50.0	44.3		ug/L		89	75 - 124	12	20
trans-1,3-Dichloropropene	1.0	U	50.0	49.3		ug/L		99	73 - 127	11	20
Ethylbenzene	0.50	U	50.0	55.9		ug/L		112	79 - 121	12	20
Hexachlorobutadiene	1.0	U	50.0	52.7		ug/L		105	66 - 134	20	20
2-Hexanone	10	U	250	252		ug/L		101	57 - 139	12	20
Isopropylbenzene	1.0	U	50.0	59.3		ug/L		119	72 - 131	14	20
4-Isopropyltoluene	1.0	U	50.0	54.2		ug/L		108	77 - 127	15	20
Methylene Chloride	10	U	50.0	51.1		ug/L		102	74 - 124	15	20
4-Methyl-2-pentanone (MIBK)	10	U	250	254		ug/L		101	67 - 130	12	20
Methyl tert-butyl ether	2.0	U	50.0	48.2		ug/L		96	71 - 124	10	20
Naphthalene	5.0	U J1	50.0	52.7	J1	ug/L		105	61 - 128	27	20
N-Propylbenzene	1.0	U	50.0	59.2		ug/L		118	76 - 126	14	20
Styrene	1.0	U	50.0	53.7		ug/L		107	78 - 123	14	20
1,1,1,2-Tetrachloroethane	1.0	U	50.0	53.8		ug/L		108	78 - 124	16	20
1,1,2,2-Tetrachloroethane	1.0	U	50.0	59.8		ug/L		120	71 - 121	16	20
Tetrachloroethene	1.0	U	50.0	50.6		ug/L		101	74 - 129	11	20
Toluene	1.0	U	50.0	51.7		ug/L		103	80 - 121	11	20
1,2,3-Trichlorobenzene	2.0	U J1	50.0	51.5	J1	ug/L		103	69 - 129	25	20
1,2,4-Trichlorobenzene	2.0	U J1	50.0	53.6	J1	ug/L		107	69 - 130	24	20
1,1,1-Trichloroethane	0.50	U	50.0	54.9		ug/L		110	74 - 131	11	20
1,1,2-Trichloroethane	1.0	U	50.0	49.3		ug/L		99	80 - 119	16	20
Trichloroethene	0.50	U	50.0	51.0		ug/L		102	79 - 123	17	20
Trichlorofluoromethane	1.0	U J1	50.0	56.4	J1	ug/L		113	65 - 141	22	20
1,2,3-Trichloropropane	1.0	U	50.0	55.9		ug/L		112	73 - 122	18	20
1,2,4-Trimethylbenzene	1.0	U	50.0	56.6		ug/L		113	76 - 124	14	20
1,3,5-Trimethylbenzene	1.0	U	50.0	57.3		ug/L		115	75 - 124	13	20
Vinyl acetate	2.0	U M Q J1	100	208	J1	ug/L		208	54 - 146	14	20
Vinyl chloride	1.0	U M	50.0	56.9		ug/L		114	58 - 137	17	20
o-Xylene	1.0	U	50.0	56.5		ug/L		113	78 - 122	13	20
m-Xylene & p-Xylene	1.0	U	50.0	56.4		ug/L		113	80 - 121	12	20
Xylenes, Total	1.0	U	100	113		ug/L		113	79 - 121	13	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-258683-15 MSD
Matrix: Water
Analysis Batch: 865335

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*97*		*81 - 118*
4-Bromofluorobenzene (Surr)	*105*		*85 - 114*
Dibromofluoromethane (Surr)	*107*		*80 - 119*

Lab Sample ID: MB 680-865582/8
Matrix: Water
Analysis Batch: 865582

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/21/24 12:22	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 12:22	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/21/24 12:22	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 12:22	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 12:22	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/21/24 12:22	1
Bromomethane	10	U	20	10	3.7	ug/L		11/21/24 12:22	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/21/24 12:22	1
n-Butylbenzene	2.0	U M	2.5	2.0	0.52	ug/L		11/21/24 12:22	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/21/24 12:22	1
tert-Butylbenzene	1.0	U M	2.0	1.0	0.43	ug/L		11/21/24 12:22	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 12:22	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/21/24 12:22	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/21/24 12:22	1
Chloroethane	10	U	20	10	4.6	ug/L		11/21/24 12:22	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 12:22	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/21/24 12:22	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/21/24 12:22	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/21/24 12:22	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/21/24 12:22	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/21/24 12:22	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 12:22	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 12:22	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 12:22	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 12:22	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/21/24 12:22	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 12:22	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 12:22	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 12:22	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 12:22	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/21/24 12:22	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/21/24 12:22	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 12:22	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/21/24 12:22	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 12:22	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/21/24 12:22	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/21/24 12:22	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 12:22	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-865582/8
Matrix: Water
Analysis Batch: 865582

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/21/24 12:22	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/21/24 12:22	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/21/24 12:22	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/21/24 12:22	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/21/24 12:22	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/21/24 12:22	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/21/24 12:22	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/21/24 12:22	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/21/24 12:22	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/21/24 12:22	1
N-Propylbenzene	1.0	U M	2.0	1.0	0.41	ug/L		11/21/24 12:22	1
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/21/24 12:22	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/21/24 12:22	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/21/24 12:22	1
Tetrachloroethene	1.0	U M	2.0	1.0	0.35	ug/L		11/21/24 12:22	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/21/24 12:22	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/21/24 12:22	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/21/24 12:22	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/21/24 12:22	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/21/24 12:22	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/21/24 12:22	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/21/24 12:22	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/21/24 12:22	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/21/24 12:22	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/21/24 12:22	1
Vinyl acetate	2.0	U	2.5	2.0	0.69	ug/L		11/21/24 12:22	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/21/24 12:22	1
o-Xylene	1.0	U M	2.0	1.0	0.26	ug/L		11/21/24 12:22	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 12:22	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/21/24 12:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*89 - 112*		*11/21/24 12:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*81 - 118*		*11/21/24 12:22*	*1*
4-Bromofluorobenzene (Surr)	*109*		*85 - 114*		*11/21/24 12:22*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 119*		*11/21/24 12:22*	*1*

Lab Sample ID: LCS 680-865582/4
Matrix: Water
Analysis Batch: 865582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	215		ug/L		86	39 - 160
Benzene	50.0	50.8		ug/L		102	79 - 120
Bromobenzene	50.0	52.0		ug/L		104	80 - 120
Chlorobromomethane	50.0	52.1		ug/L		104	78 - 123
Dichlorobromomethane	50.0	52.1		ug/L		104	79 - 125
Bromoform	50.0	47.5		ug/L		95	66 - 130

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-865582/4
Matrix: Water
Analysis Batch: 865582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	50.0	53.2		ug/L		106	53 - 141
2-Butanone (MEK)	250	221		ug/L		88	56 - 143
n-Butylbenzene	50.0	54.3		ug/L		109	75 - 128
sec-Butylbenzene	50.0	53.7		ug/L		107	77 - 126
tert-Butylbenzene	50.0	53.9		ug/L		108	78 - 124
Carbon disulfide	50.0	51.7		ug/L		103	64 - 133
Carbon tetrachloride	50.0	53.7		ug/L		107	72 - 136
Chlorobenzene	50.0	49.8		ug/L		100	82 - 118
Chloroethane	50.0	54.1		ug/L		108	60 - 138
Chloroform	50.0	50.9		ug/L		102	79 - 124
Chloromethane	50.0	51.6		ug/L		103	50 - 139
2-Chlorotoluene	50.0	51.9		ug/L		104	79 - 122
4-Chlorotoluene	50.0	52.3		ug/L		105	78 - 122
Chlorodibromomethane	50.0	48.2		ug/L		96	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	47.4		ug/L		95	62 - 128
Ethylene Dibromide	50.0	50.6		ug/L		101	75 - 127
Dibromomethane	50.0	49.1		ug/L		98	79 - 123
1,2-Dichlorobenzene	50.0	49.5		ug/L		99	80 - 119
1,3-Dichlorobenzene	50.0	50.7		ug/L		101	80 - 119
1,4-Dichlorobenzene	50.0	49.7		ug/L		99	79 - 118
Dichlorodifluoromethane	50.0	56.8		ug/L		114	32 - 152
1,1-Dichloroethane	50.0	51.8		ug/L		104	77 - 125
1,2-Dichloroethane	50.0	49.7		ug/L		99	73 - 128
cis-1,2-Dichloroethene	50.0	51.3		ug/L		103	78 - 123
trans-1,2-Dichloroethene	50.0	50.4		ug/L		101	75 - 124
1,2-Dichloroethene, Total	100	102		ug/L		102	79 - 121
1,1-Dichloroethene	50.0	52.8		ug/L		106	71 - 131
1,2-Dichloropropane	50.0	50.6		ug/L		101	78 - 122
1,3-Dichloropropane	50.0	49.6		ug/L		99	80 - 119
2,2-Dichloropropane	50.0	55.9		ug/L		112	60 - 139
1,1-Dichloropropene	50.0	51.6		ug/L		103	79 - 125
cis-1,3-Dichloropropene	50.0	53.2		ug/L		106	75 - 124
trans-1,3-Dichloropropene	50.0	50.0		ug/L		100	73 - 127
Ethylbenzene	50.0	50.5		ug/L		101	79 - 121
Hexachlorobutadiene	50.0	52.1		ug/L		104	66 - 134
2-Hexanone	250	231		ug/L		92	57 - 139
Isopropylbenzene	50.0	53.4		ug/L		107	72 - 131
4-Isopropyltoluene	50.0	54.1		ug/L		108	77 - 127
Methylene Chloride	50.0	52.3		ug/L		105	74 - 124
4-Methyl-2-pentanone (MIBK)	250	231		ug/L		93	67 - 130
Methyl tert-butyl ether	50.0	49.7		ug/L		99	71 - 124
Naphthalene	50.0	43.0		ug/L		86	61 - 128
N-Propylbenzene	50.0	54.1		ug/L		108	76 - 126
Styrene	50.0	53.4		ug/L		107	78 - 123
1,1,1,2-Tetrachloroethane	50.0	52.2		ug/L		104	78 - 124
1,1,2,2-Tetrachloroethane	50.0	53.9		ug/L		108	71 - 121
Tetrachloroethene	50.0	49.8		ug/L		100	74 - 129
Toluene	50.0	49.3		ug/L		99	80 - 121
1,2,3-Trichlorobenzene	50.0	48.9		ug/L		98	69 - 129

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-865582/4
Matrix: Water
Analysis Batch: 865582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,4-Trichlorobenzene			50.0	51.6		ug/L		103	69 - 130		
1,1,1-Trichloroethane			50.0	51.9		ug/L		104	74 - 131		
1,1,2-Trichloroethane			50.0	50.7		ug/L		101	80 - 119		
Trichloroethene			50.0	48.3		ug/L		97	79 - 123		
Trichlorofluoromethane			50.0	67.1		ug/L		134	65 - 141		
1,2,3-Trichloropropane			50.0	47.3		ug/L		95	73 - 122		
1,2,4-Trimethylbenzene			50.0	53.8		ug/L		108	76 - 124		
1,3,5-Trimethylbenzene			50.0	53.5		ug/L		107	75 - 124		
Vinyl acetate			100	241	Q	ug/L		241	54 - 146		
Vinyl chloride			50.0	55.2		ug/L		110	58 - 137		
o-Xylene			50.0	50.4		ug/L		101	78 - 122		
m-Xylene & p-Xylene			50.0	49.2		ug/L		98	80 - 121		
Xylenes, Total			100	99.6		ug/L		100	79 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*100*		*81 - 118*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*
Dibromofluoromethane (Surr)	*103*		*80 - 119*

Lab Sample ID: LCSD 680-865582/5
Matrix: Water
Analysis Batch: 865582

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
Acetone			250	223		ug/L		89	39 - 160	4	20
Benzene			50.0	50.4		ug/L		101	79 - 120	1	20
Bromobenzene			50.0	51.5		ug/L		103	80 - 120	1	20
Chlorobromomethane			50.0	52.6		ug/L		105	78 - 123	1	20
Dichlorobromomethane			50.0	52.7		ug/L		105	79 - 125	1	20
Bromoform			50.0	47.2		ug/L		94	66 - 130	1	20
Bromomethane			50.0	51.9		ug/L		104	53 - 141	2	20
2-Butanone (MEK)			250	228		ug/L		91	56 - 143	3	20
n-Butylbenzene			50.0	54.8		ug/L		110	75 - 128	1	20
sec-Butylbenzene			50.0	53.6		ug/L		107	77 - 126	0	20
tert-Butylbenzene			50.0	53.6		ug/L		107	78 - 124	1	20
Carbon disulfide			50.0	50.2		ug/L		100	64 - 133	3	20
Carbon tetrachloride			50.0	54.3		ug/L		109	72 - 136	1	20
Chlorobenzene			50.0	49.5		ug/L		99	82 - 118	1	20
Chloroethane			50.0	52.8		ug/L		106	60 - 138	2	20
Chloroform			50.0	54.4		ug/L		109	79 - 124	7	20
Chloromethane			50.0	48.9		ug/L		98	50 - 139	5	20
2-Chlorotoluene			50.0	51.7		ug/L		103	79 - 122	0	20
4-Chlorotoluene			50.0	52.3		ug/L		105	78 - 122	0	20
Chlorodibromomethane			50.0	48.9		ug/L		98	74 - 126	1	20
1,2-Dibromo-3-Chloropropane			50.0	50.2		ug/L		100	62 - 128	6	20
Ethylene Dibromide			50.0	50.9		ug/L		102	75 - 127	1	20
Dibromomethane			50.0	50.4		ug/L		101	79 - 123	3	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-865582/5
Matrix: Water
Analysis Batch: 865582

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
1,2-Dichlorobenzene			50.0	51.4		ug/L		103	80 - 119	4	20
1,3-Dichlorobenzene			50.0	51.4		ug/L		103	80 - 119	1	20
1,4-Dichlorobenzene			50.0	50.8		ug/L		102	79 - 118	2	20
Dichlorodifluoromethane			50.0	53.3		ug/L		107	32 - 152	6	20
1,1-Dichloroethane			50.0	51.2		ug/L		102	77 - 125	1	20
1,2-Dichloroethane			50.0	50.5		ug/L		101	73 - 128	2	20
cis-1,2-Dichloroethene			50.0	51.8		ug/L		104	78 - 123	1	20
trans-1,2-Dichloroethene			50.0	50.6		ug/L		101	75 - 124	0	20
1,2-Dichloroethene, Total			100	102		ug/L		102	79 - 121	1	20
1,1-Dichloroethene			50.0	52.4		ug/L		105	71 - 131	1	20
1,2-Dichloropropane			50.0	51.1		ug/L		102	78 - 122	1	20
1,3-Dichloropropane			50.0	50.0		ug/L		100	80 - 119	1	20
2,2-Dichloropropane			50.0	55.2		ug/L		110	60 - 139	1	20
1,1-Dichloropropene			50.0	51.0		ug/L		102	79 - 125	1	20
cis-1,3-Dichloropropene			50.0	53.5		ug/L		107	75 - 124	1	20
trans-1,3-Dichloropropene			50.0	49.8		ug/L		100	73 - 127	0	20
Ethylbenzene			50.0	50.0		ug/L		100	79 - 121	1	20
Hexachlorobutadiene			50.0	52.8		ug/L		106	66 - 134	1	20
2-Hexanone			250	240		ug/L		96	57 - 139	4	20
Isopropylbenzene			50.0	52.4		ug/L		105	72 - 131	2	20
4-Isopropyltoluene			50.0	54.1		ug/L		108	77 - 127	0	20
Methylene Chloride			50.0	52.5		ug/L		105	74 - 124	0	20
4-Methyl-2-pentanone (MIBK)			250	239		ug/L		96	67 - 130	3	20
Methyl tert-butyl ether			50.0	50.7		ug/L		101	71 - 124	2	20
Naphthalene			50.0	44.7		ug/L		89	61 - 128	4	20
N-Propylbenzene			50.0	53.2		ug/L		106	76 - 126	2	20
Styrene			50.0	53.1		ug/L		106	78 - 123	1	20
1,1,1,2-Tetrachloroethane			50.0	51.9		ug/L		104	78 - 124	1	20
1,1,2,2-Tetrachloroethane			50.0	54.9		ug/L		110	71 - 121	2	20
Tetrachloroethene			50.0	49.5		ug/L		99	74 - 129	1	20
Toluene			50.0	49.4		ug/L		99	80 - 121	0	20
1,2,3-Trichlorobenzene			50.0	51.7		ug/L		103	69 - 129	6	20
1,2,4-Trichlorobenzene			50.0	53.1		ug/L		106	69 - 130	3	20
1,1,1-Trichloroethane			50.0	51.4		ug/L		103	74 - 131	1	20
1,1,2-Trichloroethane			50.0	50.8		ug/L		102	80 - 119	0	20
Trichloroethene			50.0	48.6		ug/L		97	79 - 123	1	20
Trichlorofluoromethane			50.0	67.2		ug/L		134	65 - 141	0	20
1,2,3-Trichloropropane			50.0	48.4		ug/L		97	73 - 122	2	20
1,2,4-Trimethylbenzene			50.0	53.0		ug/L		106	76 - 124	1	20
1,3,5-Trimethylbenzene			50.0	52.8		ug/L		106	75 - 124	1	20
Vinyl acetate			100	242	Q	ug/L		242	54 - 146	1	20
Vinyl chloride			50.0	53.9		ug/L		108	58 - 137	2	20
o-Xylene			50.0	50.1		ug/L		100	78 - 122	1	20
m-Xylene & p-Xylene			50.0	49.1		ug/L		98	80 - 121	0	20
Xylenes, Total			100	99.2		ug/L		99	79 - 121	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*89 - 112*

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-865582/5
Matrix: Water
Analysis Batch: 865582

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*
Dibromofluoromethane (Surr)	*104*		*80 - 119*

Lab Sample ID: 680-258683-29 MS
Matrix: Water
Analysis Batch: 865582

Client Sample ID: MW-3-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	10	U	250	218		ug/L		87	39 - 160
Benzene	1.0	U	50.0	50.0		ug/L		100	79 - 120
Bromobenzene	0.50	U	50.0	52.6		ug/L		105	80 - 120
Chlorobromomethane	1.0	U	50.0	53.3		ug/L		107	78 - 123
Dichlorobromomethane	1.0	U	50.0	50.9		ug/L		102	79 - 125
Bromoform	2.0	U	50.0	44.5		ug/L		89	66 - 130
Bromomethane	10	U Q	50.0	54.0		ug/L		108	53 - 141
2-Butanone (MEK)	20	U	250	216		ug/L		86	56 - 143
n-Butylbenzene	2.0	U	50.0	52.0		ug/L		104	75 - 128
sec-Butylbenzene	2.0	U	50.0	56.4		ug/L		113	77 - 126
tert-Butylbenzene	1.0	U	50.0	57.3		ug/L		115	78 - 124
Carbon disulfide	1.0	U	50.0	53.7		ug/L		107	64 - 133
Carbon tetrachloride	1.0	U	50.0	55.5		ug/L		111	72 - 136
Chlorobenzene	0.50	U	50.0	48.6		ug/L		97	82 - 118
Chloroethane	10	U Q	50.0	96.6	J1	ug/L		193	60 - 138
Chloroform	1.0	U	50.0	50.5		ug/L		101	79 - 124
Chloromethane	2.0	U	50.0	51.1		ug/L		102	50 - 139
2-Chlorotoluene	0.50	U	50.0	55.4		ug/L		111	79 - 122
4-Chlorotoluene	1.0	U	50.0	54.6		ug/L		109	78 - 122
Chlorodibromomethane	1.0	U	50.0	47.9		ug/L		96	74 - 126
1,2-Dibromo-3-Chloropropane	5.0	U	50.0	44.5		ug/L		89	62 - 128
Ethylene Dibromide	1.0	U	50.0	49.6		ug/L		99	75 - 127
Dibromomethane	1.0	U	50.0	47.0		ug/L		94	79 - 123
1,2-Dichlorobenzene	1.0	U	50.0	45.7		ug/L		91	80 - 119
1,3-Dichlorobenzene	1.0	U	50.0	49.9		ug/L		100	80 - 119
1,4-Dichlorobenzene	1.0	U	50.0	48.0		ug/L		96	79 - 118
Dichlorodifluoromethane	1.0	U	50.0	59.4		ug/L		119	32 - 152
1,1-Dichloroethane	1.0	U	50.0	50.3		ug/L		101	77 - 125
1,2-Dichloroethane	1.0	U	50.0	47.6		ug/L		95	73 - 128
cis-1,2-Dichloroethene	0.33	J	50.0	50.3		ug/L		100	78 - 123
trans-1,2-Dichloroethene	1.0	U	50.0	50.9		ug/L		102	75 - 124
1,2-Dichloroethene, Total	1.0	U	100	101		ug/L		101	79 - 121
1,1-Dichloroethene	1.0	U	50.0	55.0		ug/L		110	71 - 131
1,2-Dichloropropane	0.50	U	50.0	49.1		ug/L		98	78 - 122
1,3-Dichloropropane	1.0	U	50.0	48.7		ug/L		97	80 - 119
2,2-Dichloropropane	1.0	U	50.0	53.5		ug/L		107	60 - 139
1,1-Dichloropropene	1.0	U	50.0	52.1		ug/L		104	79 - 125
cis-1,3-Dichloropropene	1.0	U	50.0	50.9		ug/L		102	75 - 124
trans-1,3-Dichloropropene	1.0	U	50.0	47.4		ug/L		95	73 - 127

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-258683-29 MS
Matrix: Water
Analysis Batch: 865582

Client Sample ID: MW-3-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.50	U	50.0	49.5		ug/L		99	79 - 121
Hexachlorobutadiene	1.0	U	50.0	46.8		ug/L		94	66 - 134
2-Hexanone	10	U	250	250		ug/L		100	57 - 139
Isopropylbenzene	1.0	U	50.0	55.7		ug/L		111	72 - 131
4-Isopropyltoluene	1.0	U	50.0	56.1		ug/L		112	77 - 127
Methylene Chloride	10	U	50.0	52.8		ug/L		106	74 - 124
4-Methyl-2-pentanone (MIBK)	10	U M	250	251		ug/L		100	67 - 130
Methyl tert-butyl ether	2.0	U	50.0	47.5		ug/L		95	71 - 124
Naphthalene	5.0	U	50.0	41.6		ug/L		83	61 - 128
N-Propylbenzene	1.0	U	50.0	58.0		ug/L		116	76 - 126
Styrene	1.0	U	50.0	56.7		ug/L		113	78 - 123
1,1,1,2-Tetrachloroethane	1.0	U	50.0	48.1		ug/L		96	78 - 124
1,1,2,2-Tetrachloroethane	1.0	U	50.0	50.4		ug/L		101	71 - 121
Tetrachloroethene	1.0	U	50.0	50.6		ug/L		101	74 - 129
Toluene	1.0	U	50.0	49.4		ug/L		99	80 - 121
1,2,3-Trichlorobenzene	2.0	U	50.0	45.9		ug/L		92	69 - 129
1,2,4-Trichlorobenzene	2.0	U	50.0	47.6		ug/L		95	69 - 130
1,1,1-Trichloroethane	0.50	U	50.0	52.2		ug/L		104	74 - 131
1,1,2-Trichloroethane	1.0	U	50.0	48.9		ug/L		98	80 - 119
Trichloroethene	0.25	J	50.0	48.9		ug/L		97	79 - 123
Trichlorofluoromethane	1.0	U	50.0	115	J1	ug/L		230	65 - 141
1,2,3-Trichloropropane	1.0	U	50.0	45.2		ug/L		90	73 - 122
1,2,4-Trimethylbenzene	1.0	U	50.0	53.8		ug/L		108	76 - 124
1,3,5-Trimethylbenzene	1.0	U	50.0	56.7		ug/L		113	75 - 124
Vinyl acetate	2.0	U Q	100	216	J1	ug/L		216	54 - 146
Vinyl chloride	1.0	U	50.0	57.5		ug/L		115	58 - 137
o-Xylene	1.0	U	50.0	52.8		ug/L		106	78 - 122
m-Xylene & p-Xylene	1.0	U	50.0	50.0		ug/L		100	80 - 121
Xylenes, Total	1.0	U	100	103		ug/L		103	79 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*91*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*95*		*81 - 118*
4-Bromofluorobenzene (Surr)	*111*		*85 - 114*
Dibromofluoromethane (Surr)	*103*		*80 - 119*

Lab Sample ID: 680-258683-29 MSD
Matrix: Water
Analysis Batch: 865582

Client Sample ID: MW-3-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	10	U	250	232		ug/L		93	39 - 160	6	20
Benzene	1.0	U	50.0	51.6		ug/L		103	79 - 120	3	20
Bromobenzene	0.50	U	50.0	53.6		ug/L		107	80 - 120	2	20
Chlorobromomethane	1.0	U	50.0	53.7		ug/L		107	78 - 123	1	20
Dichlorobromomethane	1.0	U	50.0	53.3		ug/L		107	79 - 125	5	20
Bromoform	2.0	U	50.0	47.0		ug/L		94	66 - 130	6	20
Bromomethane	10	U Q	50.0	55.4		ug/L		111	53 - 141	3	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-258683-29 MSD
Matrix: Water
Analysis Batch: 865582

Client Sample ID: MW-3-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)	20	U	250	228		ug/L		91	56 - 143	6	20
n-Butylbenzene	2.0	U	50.0	53.5		ug/L		107	75 - 128	3	20
sec-Butylbenzene	2.0	U	50.0	56.4		ug/L		113	77 - 126	0	20
tert-Butylbenzene	1.0	U	50.0	57.9		ug/L		116	78 - 124	1	20
Carbon disulfide	1.0	U	50.0	54.3		ug/L		109	64 - 133	1	20
Carbon tetrachloride	1.0	U	50.0	56.5		ug/L		113	72 - 136	2	20
Chlorobenzene	0.50	U	50.0	50.2		ug/L		100	82 - 118	3	20
Chloroethane	10	U Q	50.0	40.3	J1	ug/L		81	60 - 138	82	20
Chloroform	1.0	U	50.0	50.7		ug/L		101	79 - 124	0	20
Chloromethane	2.0	U	50.0	51.6		ug/L		103	50 - 139	1	20
2-Chlorotoluene	0.50	U	50.0	55.7		ug/L		111	79 - 122	1	20
4-Chlorotoluene	1.0	U	50.0	54.3		ug/L		109	78 - 122	1	20
Chlorodibromomethane	1.0	U	50.0	50.3		ug/L		101	74 - 126	5	20
1,2-Dibromo-3-Chloropropane	5.0	U	50.0	49.7		ug/L		99	62 - 128	11	20
Ethylene Dibromide	1.0	U	50.0	51.3		ug/L		103	75 - 127	3	20
Dibromomethane	1.0	U	50.0	49.7		ug/L		99	79 - 123	6	20
1,2-Dichlorobenzene	1.0	U	50.0	47.9		ug/L		96	80 - 119	5	20
1,3-Dichlorobenzene	1.0	U	50.0	51.6		ug/L		103	80 - 119	3	20
1,4-Dichlorobenzene	1.0	U	50.0	49.6		ug/L		99	79 - 118	3	20
Dichlorodifluoromethane	1.0	U	50.0	60.7		ug/L		121	32 - 152	2	20
1,1-Dichloroethane	1.0	U	50.0	52.4		ug/L		105	77 - 125	4	20
1,2-Dichloroethane	1.0	U	50.0	48.3		ug/L		97	73 - 128	1	20
cis-1,2-Dichloroethene	0.33	J	50.0	51.3		ug/L		102	78 - 123	2	20
trans-1,2-Dichloroethene	1.0	U	50.0	51.5		ug/L		103	75 - 124	1	20
1,2-Dichloroethene, Total	1.0	U	100	103		ug/L		103	79 - 121	2	20
1,1-Dichloroethene	1.0	U	50.0	56.3		ug/L		113	71 - 131	2	20
1,2-Dichloropropane	0.50	U	50.0	51.0		ug/L		102	78 - 122	4	20
1,3-Dichloropropane	1.0	U	50.0	50.1		ug/L		100	80 - 119	3	20
2,2-Dichloropropane	1.0	U	50.0	54.3		ug/L		109	60 - 139	1	20
1,1-Dichloropropene	1.0	U	50.0	52.6		ug/L		105	79 - 125	1	20
cis-1,3-Dichloropropene	1.0	U	50.0	53.2		ug/L		106	75 - 124	4	20
trans-1,3-Dichloropropene	1.0	U	50.0	49.9		ug/L		100	73 - 127	5	20
Ethylbenzene	0.50	U	50.0	50.9		ug/L		102	79 - 121	3	20
Hexachlorobutadiene	1.0	U	50.0	50.6		ug/L		101	66 - 134	8	20
2-Hexanone	10	U	250	263		ug/L		105	57 - 139	5	20
Isopropylbenzene	1.0	U	50.0	56.8		ug/L		114	72 - 131	2	20
4-Isopropyltoluene	1.0	U	50.0	57.5		ug/L		115	77 - 127	2	20
Methylene Chloride	10	U	50.0	54.1		ug/L		108	74 - 124	3	20
4-Methyl-2-pentanone (MIBK)	10	U M	250	262		ug/L		105	67 - 130	4	20
Methyl tert-butyl ether	2.0	U	50.0	50.0		ug/L		100	71 - 124	5	20
Naphthalene	5.0	U	50.0	45.8		ug/L		92	61 - 128	10	20
N-Propylbenzene	1.0	U	50.0	58.5		ug/L		117	76 - 126	1	20
Styrene	1.0	U	50.0	58.0		ug/L		116	78 - 123	2	20
1,1,1,2-Tetrachloroethane	1.0	U	50.0	49.8		ug/L		100	78 - 124	3	20
1,1,2,2-Tetrachloroethane	1.0	U	50.0	55.0		ug/L		110	71 - 121	9	20
Tetrachloroethene	1.0	U	50.0	51.1		ug/L		102	74 - 129	1	20
Toluene	1.0	U	50.0	50.7		ug/L		101	80 - 121	3	20
1,2,3-Trichlorobenzene	2.0	U	50.0	49.6		ug/L		99	69 - 129	8	20
1,2,4-Trichlorobenzene	2.0	U	50.0	51.7		ug/L		103	69 - 130	8	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-258683-29 MSD
Matrix: Water
Analysis Batch: 865582

Client Sample ID: MW-3-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.50	U	50.0	53.4		ug/L		107	74 - 131	2	20
1,1,2-Trichloroethane	1.0	U	50.0	51.2		ug/L		102	80 - 119	5	20
Trichloroethene	0.25	J	50.0	50.0		ug/L		99	79 - 123	2	20
Trichlorofluoromethane	1.0	U	50.0	114	J1	ug/L		228	65 - 141	1	20
1,2,3-Trichloropropane	1.0	U	50.0	45.8		ug/L		92	73 - 122	1	20
1,2,4-Trimethylbenzene	1.0	U	50.0	54.3		ug/L		109	76 - 124	1	20
1,3,5-Trimethylbenzene	1.0	U	50.0	57.1		ug/L		114	75 - 124	1	20
Vinyl acetate	2.0	U Q	100	228	J1	ug/L		228	54 - 146	5	20
Vinyl chloride	1.0	U	50.0	59.4		ug/L		119	58 - 137	3	20
o-Xylene	1.0	U	50.0	54.4		ug/L		109	78 - 122	3	20
m-Xylene & p-Xylene	1.0	U	50.0	51.9		ug/L		104	80 - 121	4	20
Xylenes, Total	1.0	U	100	106		ug/L		106	79 - 121	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*
4-Bromofluorobenzene (Surr)	*114*		*85 - 114*
Dibromofluoromethane (Surr)	*105*		*80 - 119*

Lab Sample ID: MB 680-866016/8
Matrix: Water
Analysis Batch: 866016

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/24/24 15:38	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 15:38	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/24/24 15:38	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 15:38	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 15:38	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/24/24 15:38	1
Bromomethane	10	U	20	10	3.7	ug/L		11/24/24 15:38	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/24/24 15:38	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/24/24 15:38	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/24/24 15:38	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/24/24 15:38	1
Carbon disulfide	1.0	U Q	2.0	1.0	0.43	ug/L		11/24/24 15:38	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/24/24 15:38	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/24/24 15:38	1
Chloroethane	10	U Q	20	10	4.6	ug/L		11/24/24 15:38	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 15:38	1
Chloromethane	2.0	U Q	2.5	2.0	0.54	ug/L		11/24/24 15:38	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/24/24 15:38	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/24/24 15:38	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/24/24 15:38	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/24/24 15:38	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 15:38	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 15:38	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 15:38	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-866016/8
Matrix: Water
Analysis Batch: 866016

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/24/24 15:38	1
1,4-Dichlorobenzene	0.320	J	2.0	1.0	0.31	ug/L		11/24/24 15:38	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 15:38	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 15:38	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/24/24 15:38	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 15:38	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/24/24 15:38	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/24/24 15:38	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/24/24 15:38	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/24/24 15:38	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 15:38	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/24/24 15:38	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/24/24 15:38	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 15:38	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/24/24 15:38	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/24/24 15:38	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/24/24 15:38	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/24/24 15:38	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 15:38	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/24/24 15:38	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/24/24 15:38	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/24/24 15:38	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/24/24 15:38	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/24/24 15:38	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/24/24 15:38	1
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/24/24 15:38	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/24/24 15:38	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/24/24 15:38	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/24/24 15:38	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/24/24 15:38	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/24/24 15:38	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/24/24 15:38	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/24/24 15:38	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/24/24 15:38	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/24/24 15:38	1
Trichlorofluoromethane	1.0	U Q	2.0	1.0	0.33	ug/L		11/24/24 15:38	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/24/24 15:38	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/24/24 15:38	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/24/24 15:38	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/24/24 15:38	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/24/24 15:38	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/24/24 15:38	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/24/24 15:38	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/24/24 15:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*89 - 112*		*11/24/24 15:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*81 - 118*		*11/24/24 15:38*	*1*

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-866016/8
Matrix: Water
Analysis Batch: 866016

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		85 - 114		11/24/24 15:38	1
Dibromofluoromethane (Surr)	108		80 - 119		11/24/24 15:38	1

Lab Sample ID: LCS 680-866016/4
Matrix: Water
Analysis Batch: 866016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	229		ug/L		92	39 - 160
Benzene	50.0	49.9		ug/L		100	79 - 120
Bromobenzene	50.0	49.6		ug/L		99	80 - 120
Chlorobromomethane	50.0	49.0		ug/L		98	78 - 123
Dichlorobromomethane	50.0	53.2		ug/L		106	79 - 125
Bromoform	50.0	43.9		ug/L		88	66 - 130
Bromomethane	50.0	52.1		ug/L		104	53 - 141
2-Butanone (MEK)	250	225		ug/L		90	56 - 143
n-Butylbenzene	50.0	52.7		ug/L		105	75 - 128
sec-Butylbenzene	50.0	51.5		ug/L		103	77 - 126
tert-Butylbenzene	50.0	51.0		ug/L		102	78 - 124
Carbon disulfide	50.0	53.7		ug/L		107	64 - 133
Carbon tetrachloride	50.0	53.9		ug/L		108	72 - 136
Chlorobenzene	50.0	47.1		ug/L		94	82 - 118
Chloroethane	50.0	50.9		ug/L		102	60 - 138
Chloroform	50.0	50.9		ug/L		102	79 - 124
Chloromethane	50.0	48.6		ug/L		97	50 - 139
2-Chlorotoluene	50.0	50.2		ug/L		100	79 - 122
4-Chlorotoluene	50.0	50.1		ug/L		100	78 - 122
Chlorodibromomethane	50.0	46.5		ug/L		93	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	44.2		ug/L		88	62 - 128
Ethylene Dibromide	50.0	48.4		ug/L		97	75 - 127
Dibromomethane	50.0	48.2		ug/L		96	79 - 123
1,2-Dichlorobenzene	50.0	48.1		ug/L		96	80 - 119
1,3-Dichlorobenzene	50.0	48.8		ug/L		98	80 - 119
1,4-Dichlorobenzene	50.0	48.0		ug/L		96	79 - 118
Dichlorodifluoromethane	50.0	52.8		ug/L		106	32 - 152
1,1-Dichloroethane	50.0	51.4		ug/L		103	77 - 125
1,2-Dichloroethane	50.0	49.6		ug/L		99	73 - 128
cis-1,2-Dichloroethene	50.0	51.5		ug/L		103	78 - 123
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	75 - 124
1,2-Dichloroethene, Total	100	101		ug/L		101	79 - 121
1,1-Dichloroethene	50.0	53.5		ug/L		107	71 - 131
1,2-Dichloropropane	50.0	50.4		ug/L		101	78 - 122
1,3-Dichloropropane	50.0	48.2		ug/L		96	80 - 119
2,2-Dichloropropane	50.0	55.2		ug/L		110	60 - 139
1,1-Dichloropropene	50.0	49.9		ug/L		100	79 - 125
cis-1,3-Dichloropropene	50.0	48.5		ug/L		97	75 - 124
trans-1,3-Dichloropropene	50.0	49.7		ug/L		99	73 - 127
Ethylbenzene	50.0	48.9		ug/L		98	79 - 121

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-866016/4
Matrix: Water
Analysis Batch: 866016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobutadiene	50.0	51.1		ug/L		102	66 - 134
2-Hexanone	250	233		ug/L		93	57 - 139
Isopropylbenzene	50.0	56.4		ug/L		113	72 - 131
4-Isopropyltoluene	50.0	50.9		ug/L		102	77 - 127
Methylene Chloride	50.0	52.0		ug/L		104	74 - 124
4-Methyl-2-pentanone (MIBK)	250	229		ug/L		92	67 - 130
Methyl tert-butyl ether	50.0	48.4		ug/L		97	71 - 124
Naphthalene	50.0	41.1		ug/L		82	61 - 128
N-Propylbenzene	50.0	52.8		ug/L		106	76 - 126
Styrene	50.0	52.0		ug/L		104	78 - 123
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/L		100	78 - 124
1,1,2,2-Tetrachloroethane	50.0	50.8		ug/L		102	71 - 121
Tetrachloroethene	50.0	48.1		ug/L		96	74 - 129
Toluene	50.0	46.9		ug/L		94	80 - 121
1,2,3-Trichlorobenzene	50.0	46.1		ug/L		92	69 - 129
1,2,4-Trichlorobenzene	50.0	49.6		ug/L		99	69 - 130
1,1,1-Trichloroethane	50.0	52.4		ug/L		105	74 - 131
1,1,2-Trichloroethane	50.0	48.7		ug/L		97	80 - 119
Trichloroethene	50.0	47.6		ug/L		95	79 - 123
Trichlorofluoromethane	50.0	63.7		ug/L		127	65 - 141
1,2,3-Trichloropropane	50.0	45.0		ug/L		90	73 - 122
1,2,4-Trimethylbenzene	50.0	51.0		ug/L		102	76 - 124
1,3,5-Trimethylbenzene	50.0	52.1		ug/L		104	75 - 124
Vinyl acetate	100	235	Q	ug/L		235	54 - 146
Vinyl chloride	50.0	55.4		ug/L		111	58 - 137
o-Xylene	50.0	48.6		ug/L		97	78 - 122
m-Xylene & p-Xylene	50.0	47.6		ug/L		95	80 - 121
Xylenes, Total	100	96.2		ug/L		96	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*97*		*81 - 118*
4-Bromofluorobenzene (Surr)	*101*		*85 - 114*
Dibromofluoromethane (Surr)	*99*		*80 - 119*

Lab Sample ID: LCSD 680-866016/5
Matrix: Water
Analysis Batch: 866016

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
Acetone	250	234		ug/L		94	39 - 160	2	20
Benzene	50.0	49.4		ug/L		99	79 - 120	1	20
Bromobenzene	50.0	50.7		ug/L		101	80 - 120	2	20
Chlorobromomethane	50.0	49.2		ug/L		98	78 - 123	0	20
Dichlorobromomethane	50.0	53.0		ug/L		106	79 - 125	0	20
Bromoform	50.0	44.9		ug/L		90	66 - 130	2	20
Bromomethane	50.0	51.0		ug/L		102	53 - 141	2	20
2-Butanone (MEK)	250	236		ug/L		94	56 - 143	5	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-866016/5
Matrix: Water
Analysis Batch: 866016

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
n-Butylbenzene			50.0	52.4		ug/L		105	75 - 128	0	20
sec-Butylbenzene			50.0	51.1		ug/L		102	77 - 126	1	20
tert-Butylbenzene			50.0	51.1		ug/L		102	78 - 124	0	20
Carbon disulfide			50.0	51.9		ug/L		104	64 - 133	3	20
Carbon tetrachloride			50.0	53.0		ug/L		106	72 - 136	2	20
Chlorobenzene			50.0	47.7		ug/L		95	82 - 118	1	20
Chloroethane			50.0	48.7		ug/L		97	60 - 138	4	20
Chloroform			50.0	50.0		ug/L		100	79 - 124	2	20
Chloromethane			50.0	46.5		ug/L		93	50 - 139	4	20
2-Chlorotoluene			50.0	50.9		ug/L		102	79 - 122	2	20
4-Chlorotoluene			50.0	50.6		ug/L		101	78 - 122	1	20
Chlorodibromomethane			50.0	46.5		ug/L		93	74 - 126	0	20
1,2-Dibromo-3-Chloropropane			50.0	44.8		ug/L		90	62 - 128	1	20
Ethylene Dibromide			50.0	49.1		ug/L		98	75 - 127	1	20
Dibromomethane			50.0	48.4		ug/L		97	79 - 123	0	20
1,2-Dichlorobenzene			50.0	48.3		ug/L		97	80 - 119	0	20
1,3-Dichlorobenzene			50.0	49.0		ug/L		98	80 - 119	0	20
1,4-Dichlorobenzene			50.0	48.6		ug/L		97	79 - 118	1	20
Dichlorodifluoromethane			50.0	50.3		ug/L		101	32 - 152	5	20
1,1-Dichloroethane			50.0	50.7		ug/L		101	77 - 125	1	20
1,2-Dichloroethane			50.0	50.2		ug/L		100	73 - 128	1	20
cis-1,2-Dichloroethene			50.0	50.9		ug/L		102	78 - 123	1	20
trans-1,2-Dichloroethene			50.0	48.8		ug/L		98	75 - 124	2	20
1,2-Dichloroethene, Total			100	99.6		ug/L		100	79 - 121	2	20
1,1-Dichloroethene			50.0	52.0		ug/L		104	71 - 131	3	20
1,2-Dichloropropane			50.0	50.1		ug/L		100	78 - 122	1	20
1,3-Dichloropropane			50.0	48.5		ug/L		97	80 - 119	1	20
2,2-Dichloropropane			50.0	54.2		ug/L		108	60 - 139	2	20
1,1-Dichloropropene			50.0	49.0		ug/L		98	79 - 125	2	20
cis-1,3-Dichloropropene			50.0	48.3		ug/L		97	75 - 124	0	20
trans-1,3-Dichloropropene			50.0	50.3		ug/L		101	73 - 127	1	20
Ethylbenzene			50.0	48.4		ug/L		97	79 - 121	1	20
Hexachlorobutadiene			50.0	50.0		ug/L		100	66 - 134	2	20
2-Hexanone			250	238		ug/L		95	57 - 139	2	20
Isopropylbenzene			50.0	56.2		ug/L		112	72 - 131	0	20
4-Isopropyltoluene			50.0	50.9		ug/L		102	77 - 127	0	20
Methylene Chloride			50.0	51.5		ug/L		103	74 - 124	1	20
4-Methyl-2-pentanone (MIBK)			250	235		ug/L		94	67 - 130	2	20
Methyl tert-butyl ether			50.0	49.3		ug/L		99	71 - 124	2	20
Naphthalene			50.0	43.4		ug/L		87	61 - 128	5	20
N-Propylbenzene			50.0	52.6		ug/L		105	76 - 126	0	20
Styrene			50.0	52.8		ug/L		106	78 - 123	2	20
1,1,1,2-Tetrachloroethane			50.0	50.7		ug/L		101	78 - 124	2	20
1,1,2,2-Tetrachloroethane			50.0	51.6		ug/L		103	71 - 121	2	20
Tetrachloroethene			50.0	47.6		ug/L		95	74 - 129	1	20
Toluene			50.0	46.8		ug/L		94	80 - 121	0	20
1,2,3-Trichlorobenzene			50.0	46.0		ug/L		92	69 - 129	0	20
1,2,4-Trichlorobenzene			50.0	50.8		ug/L		102	69 - 130	2	20
1,1,1-Trichloroethane			50.0	51.6		ug/L		103	74 - 131	2	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-866016/5
Matrix: Water
Analysis Batch: 866016

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
1,1,2-Trichloroethane			50.0	49.0		ug/L		98	80 - 119	1	20
Trichloroethene			50.0	46.7		ug/L		93	79 - 123	2	20
Trichlorofluoromethane			50.0	61.6		ug/L		123	65 - 141	3	20
1,2,3-Trichloropropane			50.0	45.8		ug/L		92	73 - 122	2	20
1,2,4-Trimethylbenzene			50.0	51.2		ug/L		102	76 - 124	0	20
1,3,5-Trimethylbenzene			50.0	51.7		ug/L		103	75 - 124	1	20
Vinyl acetate			100	227	Q	ug/L		227	54 - 146	3	20
Vinyl chloride			50.0	55.4		ug/L		111	58 - 137	0	20
o-Xylene			50.0	48.8		ug/L		98	78 - 122	0	20
m-Xylene & p-Xylene			50.0	47.2		ug/L		94	80 - 121	1	20
Xylenes, Total			100	96.0		ug/L		96	79 - 121	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*97*		*81 - 118*
4-Bromofluorobenzene (Surr)	*102*		*85 - 114*
Dibromofluoromethane (Surr)	*98*		*80 - 119*

Lab Sample ID: MB 680-866305/8
Matrix: Water
Analysis Batch: 866305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/26/24 12:33	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 12:33	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/26/24 12:33	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 12:33	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 12:33	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/26/24 12:33	1
Bromomethane	10	U	20	10	3.7	ug/L		11/26/24 12:33	1
2-Butanone (MEK)	20	U M	25	20	6.4	ug/L		11/26/24 12:33	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/26/24 12:33	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/26/24 12:33	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 12:33	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 12:33	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/26/24 12:33	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/26/24 12:33	1
Chloroethane	10	U	20	10	4.6	ug/L		11/26/24 12:33	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 12:33	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/26/24 12:33	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/26/24 12:33	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 12:33	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/26/24 12:33	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/26/24 12:33	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 12:33	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 12:33	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 12:33	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 12:33	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-866305/8
Matrix: Water
Analysis Batch: 866305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 12:33	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 12:33	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 12:33	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/26/24 12:33	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 12:33	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 12:33	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/26/24 12:33	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 12:33	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/26/24 12:33	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 12:33	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 12:33	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 12:33	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 12:33	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/26/24 12:33	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 12:33	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/26/24 12:33	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/26/24 12:33	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 12:33	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/26/24 12:33	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/26/24 12:33	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/26/24 12:33	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 12:33	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/26/24 12:33	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 12:33	1
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 12:33	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 12:33	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 12:33	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 12:33	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 12:33	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 12:33	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/26/24 12:33	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/26/24 12:33	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/26/24 12:33	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 12:33	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 12:33	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/26/24 12:33	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 12:33	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 12:33	1
Vinyl acetate	2.0	U	2.5	2.0	0.69	ug/L		11/26/24 12:33	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 12:33	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 12:33	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 12:33	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 12:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*89 - 112*		*11/26/24 12:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*81 - 118*		*11/26/24 12:33*	*1*
4-Bromofluorobenzene (Surr)	*110*		*85 - 114*		*11/26/24 12:33*	*1*

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-866305/8
Matrix: Water
Analysis Batch: 866305

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*11/26/24 12:33*	*1*

Lab Sample ID: LCS 680-866305/4
Matrix: Water
Analysis Batch: 866305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	229		ug/L		91	39 - 160
Benzene	50.0	53.1		ug/L		106	79 - 120
Bromobenzene	50.0	50.2		ug/L		100	80 - 120
Chlorobromomethane	50.0	53.0		ug/L		106	78 - 123
Dichlorobromomethane	50.0	56.0		ug/L		112	79 - 125
Bromoform	50.0	47.9		ug/L		96	66 - 130
Bromomethane	50.0	28.6		ug/L		57	53 - 141
2-Butanone (MEK)	250	222		ug/L		89	56 - 143
n-Butylbenzene	50.0	55.8		ug/L		112	75 - 128
sec-Butylbenzene	50.0	54.4		ug/L		109	77 - 126
tert-Butylbenzene	50.0	52.3		ug/L		105	78 - 124
Carbon disulfide	50.0	54.3		ug/L		109	64 - 133
Carbon tetrachloride	50.0	56.6		ug/L		113	72 - 136
Chlorobenzene	50.0	46.2		ug/L		92	82 - 118
Chloroethane	50.0	73.8	M Q	ug/L		148	60 - 138
Chloroform	50.0	52.0		ug/L		104	79 - 124
Chloromethane	50.0	50.1		ug/L		100	50 - 139
2-Chlorotoluene	50.0	54.8		ug/L		110	79 - 122
4-Chlorotoluene	50.0	54.7		ug/L		109	78 - 122
Chlorodibromomethane	50.0	47.0		ug/L		94	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	45.6		ug/L		91	62 - 128
Ethylene Dibromide	50.0	48.7		ug/L		97	75 - 127
Dibromomethane	50.0	53.8		ug/L		108	79 - 123
1,2-Dichlorobenzene	50.0	49.7		ug/L		99	80 - 119
1,3-Dichlorobenzene	50.0	50.5		ug/L		101	80 - 119
1,4-Dichlorobenzene	50.0	50.5		ug/L		101	79 - 118
Dichlorodifluoromethane	50.0	53.2		ug/L		106	32 - 152
1,1-Dichloroethane	50.0	56.2		ug/L		112	77 - 125
1,2-Dichloroethane	50.0	58.0		ug/L		116	73 - 128
cis-1,2-Dichloroethene	50.0	57.7		ug/L		115	78 - 123
trans-1,2-Dichloroethene	50.0	50.7		ug/L		101	75 - 124
1,2-Dichloroethene, Total	100	108		ug/L		108	79 - 121
1,1-Dichloroethene	50.0	52.7		ug/L		105	71 - 131
1,2-Dichloropropane	50.0	56.2		ug/L		112	78 - 122
1,3-Dichloropropane	50.0	50.8		ug/L		102	80 - 119
2,2-Dichloropropane	50.0	58.6		ug/L		117	60 - 139
1,1-Dichloropropene	50.0	56.8		ug/L		114	79 - 125
cis-1,3-Dichloropropene	50.0	56.7		ug/L		113	75 - 124
trans-1,3-Dichloropropene	50.0	56.0		ug/L		112	73 - 127
Ethylbenzene	50.0	51.2		ug/L		102	79 - 121
Hexachlorobutadiene	50.0	48.7		ug/L		97	66 - 134

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-866305/4
Matrix: Water
Analysis Batch: 866305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Hexanone	250	227		ug/L		91	57 - 139
Isopropylbenzene	50.0	53.4		ug/L		107	72 - 131
4-Isopropyltoluene	50.0	52.6		ug/L		105	77 - 127
Methylene Chloride	50.0	54.9		ug/L		110	74 - 124
4-Methyl-2-pentanone (MIBK)	250	260		ug/L		104	67 - 130
Methyl tert-butyl ether	50.0	52.5		ug/L		105	71 - 124
Naphthalene	50.0	49.2		ug/L		98	61 - 128
N-Propylbenzene	50.0	55.0		ug/L		110	76 - 126
Styrene	50.0	52.4		ug/L		105	78 - 123
1,1,1,2-Tetrachloroethane	50.0	49.8		ug/L		100	78 - 124
1,1,2,2-Tetrachloroethane	50.0	52.7		ug/L		105	71 - 121
Tetrachloroethene	50.0	47.2		ug/L		94	74 - 129
Toluene	50.0	52.1		ug/L		104	80 - 121
1,2,3-Trichlorobenzene	50.0	49.0		ug/L		98	69 - 129
1,2,4-Trichlorobenzene	50.0	49.1		ug/L		98	69 - 130
1,1,1-Trichloroethane	50.0	55.4		ug/L		111	74 - 131
1,1,2-Trichloroethane	50.0	49.5		ug/L		99	80 - 119
Trichloroethene	50.0	49.3		ug/L		99	79 - 123
Trichlorofluoromethane	50.0	57.7		ug/L		115	65 - 141
1,2,3-Trichloropropane	50.0	49.8		ug/L		100	73 - 122
1,2,4-Trimethylbenzene	50.0	53.9		ug/L		108	76 - 124
1,3,5-Trimethylbenzene	50.0	53.5		ug/L		107	75 - 124
Vinyl acetate	100	155	Q	ug/L		155	54 - 146
Vinyl chloride	50.0	53.5		ug/L		107	58 - 137
o-Xylene	50.0	53.1		ug/L		106	78 - 122
m-Xylene & p-Xylene	50.0	52.4		ug/L		105	80 - 121
Xylenes, Total	100	106		ug/L		106	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*110*		*81 - 118*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*
Dibromofluoromethane (Surr)	*105*		*80 - 119*

Lab Sample ID: LCSD 680-866305/5
Matrix: Water
Analysis Batch: 866305

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
Acetone	250	241		ug/L		97	39 - 160	6	20
Benzene	50.0	53.0		ug/L		106	79 - 120	0	20
Bromobenzene	50.0	50.0		ug/L		100	80 - 120	0	20
Chlorobromomethane	50.0	53.6		ug/L		107	78 - 123	1	20
Dichlorobromomethane	50.0	56.9		ug/L		114	79 - 125	2	20
Bromoform	50.0	48.6		ug/L		97	66 - 130	1	20
Bromomethane	50.0	27.1		ug/L		54	53 - 141	5	20
2-Butanone (MEK)	250	233		ug/L		93	56 - 143	5	20
n-Butylbenzene	50.0	55.1		ug/L		110	75 - 128	1	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-866305/5
Matrix: Water
Analysis Batch: 866305

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
sec-Butylbenzene	50.0	54.0		ug/L		108	77 - 126	1	20
tert-Butylbenzene	50.0	52.5		ug/L		105	78 - 124	0	20
Carbon disulfide	50.0	53.6		ug/L		107	64 - 133	1	20
Carbon tetrachloride	50.0	56.1		ug/L		112	72 - 136	1	20
Chlorobenzene	50.0	46.1		ug/L		92	82 - 118	0	20
Chloroethane	50.0	72.3	Q	ug/L		145	60 - 138	2	20
Chloroform	50.0	51.9		ug/L		104	79 - 124	0	20
Chloromethane	50.0	49.7		ug/L		99	50 - 139	1	20
2-Chlorotoluene	50.0	53.8		ug/L		108	79 - 122	2	20
4-Chlorotoluene	50.0	54.3		ug/L		109	78 - 122	1	20
Chlorodibromomethane	50.0	48.2		ug/L		96	74 - 126	3	20
1,2-Dibromo-3-Chloropropane	50.0	46.8		ug/L		94	62 - 128	3	20
Ethylene Dibromide	50.0	50.2		ug/L		100	75 - 127	3	20
Dibromomethane	50.0	55.6		ug/L		111	79 - 123	3	20
1,2-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 119	1	20
1,3-Dichlorobenzene	50.0	50.6		ug/L		101	80 - 119	0	20
1,4-Dichlorobenzene	50.0	50.7		ug/L		101	79 - 118	0	20
Dichlorodifluoromethane	50.0	51.4		ug/L		103	32 - 152	3	20
1,1-Dichloroethane	50.0	56.6		ug/L		113	77 - 125	1	20
1,2-Dichloroethane	50.0	58.5		ug/L		117	73 - 128	1	20
cis-1,2-Dichloroethene	50.0	57.3		ug/L		115	78 - 123	1	20
trans-1,2-Dichloroethene	50.0	50.6		ug/L		101	75 - 124	0	20
1,2-Dichloroethene, Total	100	108		ug/L		108	79 - 121	0	20
1,1-Dichloroethene	50.0	52.9		ug/L		106	71 - 131	0	20
1,2-Dichloropropane	50.0	56.5		ug/L		113	78 - 122	0	20
1,3-Dichloropropane	50.0	52.1		ug/L		104	80 - 119	3	20
2,2-Dichloropropane	50.0	58.0		ug/L		116	60 - 139	1	20
1,1-Dichloropropene	50.0	56.3		ug/L		113	79 - 125	1	20
cis-1,3-Dichloropropene	50.0	57.4		ug/L		115	75 - 124	1	20
trans-1,3-Dichloropropene	50.0	56.5		ug/L		113	73 - 127	1	20
Ethylbenzene	50.0	50.6		ug/L		101	79 - 121	1	20
Hexachlorobutadiene	50.0	48.9		ug/L		98	66 - 134	0	20
2-Hexanone	250	238		ug/L		95	57 - 139	4	20
Isopropylbenzene	50.0	52.9		ug/L		106	72 - 131	1	20
4-Isopropyltoluene	50.0	52.1		ug/L		104	77 - 127	1	20
Methylene Chloride	50.0	56.4		ug/L		113	74 - 124	3	20
4-Methyl-2-pentanone (MIBK)	250	271		ug/L		109	67 - 130	4	20
Methyl tert-butyl ether	50.0	53.5		ug/L		107	71 - 124	2	20
Naphthalene	50.0	50.5		ug/L		101	61 - 128	3	20
N-Propylbenzene	50.0	54.5		ug/L		109	76 - 126	1	20
Styrene	50.0	52.6		ug/L		105	78 - 123	0	20
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/L		100	78 - 124	0	20
1,1,2,2-Tetrachloroethane	50.0	53.5		ug/L		107	71 - 121	2	20
Tetrachloroethene	50.0	47.4		ug/L		95	74 - 129	0	20
Toluene	50.0	52.4		ug/L		105	80 - 121	1	20
1,2,3-Trichlorobenzene	50.0	49.8		ug/L		100	69 - 129	2	20
1,2,4-Trichlorobenzene	50.0	50.4		ug/L		101	69 - 130	3	20
1,1,1-Trichloroethane	50.0	54.9		ug/L		110	74 - 131	1	20
1,1,2-Trichloroethane	50.0	51.0		ug/L		102	80 - 119	3	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-866305/5
Matrix: Water
Analysis Batch: 866305

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	49.1		ug/L		98	79 - 123	0	20
Trichlorofluoromethane			50.0	56.9		ug/L		114	65 - 141	1	20
1,2,3-Trichloropropane			50.0	51.5		ug/L		103	73 - 122	3	20
1,2,4-Trimethylbenzene			50.0	53.6		ug/L		107	76 - 124	1	20
1,3,5-Trimethylbenzene			50.0	53.0		ug/L		106	75 - 124	1	20
Vinyl acetate			100	154	Q	ug/L		154	54 - 146	1	20
Vinyl chloride			50.0	52.2		ug/L		104	58 - 137	2	20
o-Xylene			50.0	53.4		ug/L		107	78 - 122	1	20
m-Xylene & p-Xylene			50.0	52.2		ug/L		104	80 - 121	0	20
Xylenes, Total			100	106		ug/L		106	79 - 121	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*112*		*81 - 118*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*
Dibromofluoromethane (Surr)	*105*		*80 - 119*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-865006/30
Matrix: Water
Analysis Batch: 865006

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	0.76	U	1.1	0.76	0.30	ug/L		11/18/24 16:37	1
Ethylene	0.71	U	1.0	0.71	0.31	ug/L		11/18/24 16:37	1
Methane	1.2	U M	1.2	1.2	0.57	ug/L		11/18/24 16:37	1

Lab Sample ID: LCS 680-865006/28
Matrix: Water
Analysis Batch: 865006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane			721	689		ug/L		96	74 - 131
Ethylene			673	634		ug/L		94	72 - 133
Methane			385	401		ug/L		104	73 - 125

Lab Sample ID: LCSD 680-865006/29
Matrix: Water
Analysis Batch: 865006

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
Ethane			721	679		ug/L		94	74 - 131	1	30
Ethylene			673	629		ug/L		93	72 - 133	1	30
Methane			385	394		ug/L		102	73 - 125	2	30

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 680-258683-15 MS
Matrix: Water
Analysis Batch: 865006

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	0.76	U M	721	654		ug/L		91	74 - 131
Ethylene	0.71	U M	673	606		ug/L		90	72 - 133
Methane	890	J1	385	1220		ug/L		85	73 - 125

Lab Sample ID: 680-258683-15 MSD
Matrix: Water
Analysis Batch: 865006

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane	0.76	U M	721	671		ug/L		93	74 - 131	3	30
Ethylene	0.71	U M	673	627		ug/L		93	72 - 133	3	30
Methane	890	J1	385	1150	J1	ug/L		68	73 - 125	5	30

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-867517/2
Matrix: Water
Analysis Batch: 867517

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	1.0	0.40	mg/L		12/05/24 12:08	1

Lab Sample ID: LCS 680-867517/3
Matrix: Water
Analysis Batch: 867517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	9.11	M	mg/L		91	87 - 112

Lab Sample ID: LCSD 680-867517/4
Matrix: Water
Analysis Batch: 867517

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
Sulfate	10.0	9.20	M	mg/L		92	87 - 112	1	15

Lab Sample ID: 680-258683-15 MS
Matrix: Water
Analysis Batch: 867517

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	1.0	U	10.0	9.08		mg/L		91	87 - 112

Lab Sample ID: 680-258683-15 MSD
Matrix: Water
Analysis Batch: 867517

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	1.0	U	10.0	9.05		mg/L		90	87 - 112	0	15

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 680-867518/33
Matrix: Water
Analysis Batch: 867518

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	1.0	0.40	mg/L		12/05/24 20:12	1

Lab Sample ID: LCS 680-867518/34
Matrix: Water
Analysis Batch: 867518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	9.19	M	mg/L		92	87 - 112

Lab Sample ID: LCSD 680-867518/35
Matrix: Water
Analysis Batch: 867518

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
Sulfate	10.0	9.10	M	mg/L		91	87 - 112	1	15

Lab Sample ID: 680-258683-27 MS
Matrix: Water
Analysis Batch: 867518

Client Sample ID: G6M-97-05B-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	1.0	U	10.0	9.46		mg/L		95	87 - 112

Lab Sample ID: 680-258683-27 MSD
Matrix: Water
Analysis Batch: 867518

Client Sample ID: G6M-97-05B-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	1.0	U	10.0	9.46		mg/L		95	87 - 112	0	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-864925/1-A
Matrix: Water
Analysis Batch: 865117

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 864925

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/18/24 23:01	1
Manganese	5.0	U	10	5.0	1.3	ug/L		11/18/24 23:01	1

Lab Sample ID: LCS 680-864925/2-A
Matrix: Water
Analysis Batch: 865117

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 864925

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5000	5100		ug/L		102	87 - 115
Manganese	400	426		ug/L		106	90 - 114

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 680-864928/1-A
Matrix: Water
Analysis Batch: 865799

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 864928

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/21/24 16:27	1
Manganese	5.0	U	10	5.0	1.3	ug/L		11/21/24 16:27	1

Lab Sample ID: LCS 680-864928/2-A
Matrix: Water
Analysis Batch: 865799

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 864928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5000	5240		ug/L		105	87 - 115
Manganese	400	422		ug/L		105	90 - 114

Lab Sample ID: 680-258683-29 MS
Matrix: Water
Analysis Batch: 865117

Client Sample ID: MW-3-FAL24
Prep Type: Dissolved
Prep Batch: 864925

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	61000	J1	5000	61600	4	ug/L		18	87 - 115
Manganese	12000	J1	400	11000	4	ug/L		-135	90 - 114

Lab Sample ID: 680-258683-29 MSD
Matrix: Water
Analysis Batch: 865117

Client Sample ID: MW-3-FAL24
Prep Type: Dissolved
Prep Batch: 864925

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	61000	J1	5000	63400	4	ug/L		53	87 - 115	3	20
Manganese	12000	J1	400	11300	4	ug/L		-65	90 - 114	3	20

Lab Sample ID: 680-258683-15 MS
Matrix: Water
Analysis Batch: 865799

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Dissolved
Prep Batch: 864928

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	33000	J1	5000	37700	4	ug/L		104	87 - 115
Manganese	400		400	797		ug/L		100	90 - 114

Lab Sample ID: 680-258683-15 MSD
Matrix: Water
Analysis Batch: 865799

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Dissolved
Prep Batch: 864928

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	33000	J1	5000	36800	4	ug/L		87	87 - 115	2	20
Manganese	400		400	798		ug/L		101	90 - 114	0	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-864927/1-A
Matrix: Water
Analysis Batch: 865192

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 864927

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		11/18/24 15:34	1

Lab Sample ID: LCS 680-864927/2-A
Matrix: Water
Analysis Batch: 865192

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 864927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	113		ug/L		113	84 - 116

Lab Sample ID: MB 680-864929/1-A
Matrix: Water
Analysis Batch: 865664

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 864929

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		11/20/24 13:12	1

Lab Sample ID: LCS 680-864929/2-A
Matrix: Water
Analysis Batch: 865664

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 864929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	107		ug/L		107	84 - 116

Lab Sample ID: 680-258683-29 MS
Matrix: Water
Analysis Batch: 865192

Client Sample ID: MW-3-FAL24
Prep Type: Dissolved
Prep Batch: 864927

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	660		100	744	4	ug/L		84	84 - 116

Lab Sample ID: 680-258683-29 MSD
Matrix: Water
Analysis Batch: 865192

Client Sample ID: MW-3-FAL24
Prep Type: Dissolved
Prep Batch: 864927

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	660		100	748	4	ug/L		88	84 - 116	1	20

Lab Sample ID: 680-258683-15 MS
Matrix: Water
Analysis Batch: 865664

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Dissolved
Prep Batch: 864929

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	260	J1	100	350		ug/L		93	84 - 116

Lab Sample ID: 680-258683-15 MSD
Matrix: Water
Analysis Batch: 865664

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Dissolved
Prep Batch: 864929

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	260	J1	100	373	J1	ug/L		117	84 - 116	6	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-865181/4
Matrix: Water
Analysis Batch: 865181

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	5.0	U	5.5	5.0	2.2	mg/L		11/18/24 20:04	1

Lab Sample ID: LCS 680-865181/6
Matrix: Water
Analysis Batch: 865181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	250	248		mg/L		99	90 - 112

Lab Sample ID: LCSD 680-865181/31
Matrix: Water
Analysis Batch: 865181

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
Total Alkalinity as CaCO3 to pH 4.5	250	250		mg/L		100	90 - 112	1	30

Lab Sample ID: MB 680-865400/4
Matrix: Water
Analysis Batch: 865400

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	5.0	U	5.5	5.0	2.2	mg/L		11/19/24 14:20	1

Lab Sample ID: LCS 680-865400/6
Matrix: Water
Analysis Batch: 865400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	250	249		mg/L		100	90 - 112

Lab Sample ID: LCSD 680-865400/31
Matrix: Water
Analysis Batch: 865400

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
Total Alkalinity as CaCO3 to pH 4.5	250	251		mg/L		101	90 - 112	1	30

Lab Sample ID: MB 680-865409/4
Matrix: Water
Analysis Batch: 865409

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	5.0	U	5.5	5.0	2.2	mg/L		11/19/24 20:53	1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 680-865409/6
Matrix: Water
Analysis Batch: 865409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	250	251		mg/L		101	90 - 112

Lab Sample ID: LCSD 680-865409/31
Matrix: Water
Analysis Batch: 865409

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
Total Alkalinity as CaCO3 to pH 4.5	250	253		mg/L		101	90 - 112	1	30

Lab Sample ID: 680-258683-27 DU
Matrix: Water
Analysis Batch: 865409

Client Sample ID: G6M-97-05B-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	160		164		mg/L		1	30

Method: 353.2-1993 R2.0 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-865583/14
Matrix: Water
Analysis Batch: 865583

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0110	J	0.10	0.025	0.010	mg/L		11/20/24 15:35	1

Lab Sample ID: LCS 680-865583/15
Matrix: Water
Analysis Batch: 865583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	0.980		mg/L		98	90 - 110

Lab Sample ID: MB 680-865654/2
Matrix: Water
Analysis Batch: 865654

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.025	U	0.10	0.025	0.010	mg/L		11/21/24 10:03	1

Lab Sample ID: LCS 680-865654/1
Matrix: Water
Analysis Batch: 865654

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	0.929		mg/L		93	90 - 110

Method: 353.2-1993 R2.0 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 680-258683-15 MS
Matrix: Water
Analysis Batch: 865654

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.018	J1	1.00	0.626	J1	mg/L		61	90 - 110

Lab Sample ID: 680-258683-15 MSD
Matrix: Water
Analysis Batch: 865654

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.018	J1	1.00	0.624	J1	mg/L		61	90 - 110	0	10

Lab Sample ID: 680-258683-27 MS
Matrix: Water
Analysis Batch: 865654

Client Sample ID: G6M-97-05B-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.025	U J1	1.00	0.769	J1	mg/L		77	90 - 110

Lab Sample ID: 680-258683-27 MSD
Matrix: Water
Analysis Batch: 865654

Client Sample ID: G6M-97-05B-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.025	U J1	1.00	0.812	J1	mg/L		81	90 - 110	5	10

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 680-865037/1
Matrix: Water
Analysis Batch: 865037

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide	2.0	U	3.0	2.0	1.0	mg/L		11/18/24 13:25	1

Lab Sample ID: LCS 680-865037/2
Matrix: Water
Analysis Batch: 865037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	8.74		mg/L		87	75 - 125

Lab Sample ID: LCSD 680-865037/3
Matrix: Water
Analysis Batch: 865037

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
Sulfide	10.0	9.16		mg/L		92	75 - 125	5	30

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 680-258683-15 MS
Matrix: Water
Analysis Batch: 865037

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	1.6	U H	6.50	7.19	H	mg/L		111	75 - 125

Lab Sample ID: 680-258683-15 MSD
Matrix: Water
Analysis Batch: 865037

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	1.6	U H	6.50	7.57	H	mg/L		116	75 - 125	5	30

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-866462/3
Matrix: Water
Analysis Batch: 866462

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	1.0	0.50	mg/L		11/25/24 14:16	1

Lab Sample ID: LCS 680-866462/4
Matrix: Water
Analysis Batch: 866462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	20.0	19.6		mg/L		98	80 - 120

Lab Sample ID: LCSD 680-866462/5
Matrix: Water
Analysis Batch: 866462

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
Total Organic Carbon	20.0	19.8		mg/L		99	80 - 120	1	25

Lab Sample ID: 680-258683-15 MS
Matrix: Water
Analysis Batch: 866462

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	3.5		25.0	24.0		mg/L		82	80 - 120

Lab Sample ID: 680-258683-15 MSD
Matrix: Water
Analysis Batch: 866462

Client Sample ID: G6M-04-10A-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	3.5		25.0	24.1		mg/L		82	80 - 120	1	25

GC/MS VOA

Analysis Batch: 865326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-31	AOC50-RB-02-FAL24	Total/NA	Water	8260D	
680-258683-32	AOC50-RB-03-FAL24	Total/NA	Water	8260D	
680-258683-33	AOC50-RB-04-FAL24	Total/NA	Water	8260D	
680-258683-34	Trip Blank	Total/NA	Water	8260D	
MB 680-865326/9	Method Blank	Total/NA	Water	8260D	
LCS 680-865326/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-865326/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 865335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-6	G6M-02-07X-FAL24	Total/NA	Water	8260D	
680-258683-7	G6M-02-12X-FAL24	Total/NA	Water	8260D	
680-258683-8	G6M-02-13X-FAL24	Total/NA	Water	8260D	
680-258683-9	G6M-03-08X-FAL24	Total/NA	Water	8260D	
680-258683-10	G6M-04-01X-FAL24	Total/NA	Water	8260D	
680-258683-11	G6M-04-05X-FAL24	Total/NA	Water	8260D	
680-258683-12	G6M-04-06X-FAL24	Total/NA	Water	8260D	
680-258683-13	G6M-04-07X-FAL24	Total/NA	Water	8260D	
680-258683-14	G6M-04-09X-FAL24	Total/NA	Water	8260D	
680-258683-15	G6M-04-10A-FAL24	Total/NA	Water	8260D	
680-258683-34	Trip Blank	Total/NA	Water	8260D	
MB 680-865335/9	Method Blank	Total/NA	Water	8260D	
LCS 680-865335/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-865335/4	Lab Control Sample Dup	Total/NA	Water	8260D	
680-258683-15 MS	G6M-04-10A-FAL24	Total/NA	Water	8260D	
680-258683-15 MSD	G6M-04-10A-FAL24	Total/NA	Water	8260D	

Analysis Batch: 865582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-1	AOC50-DUP02-FAL24	Total/NA	Water	8260D	
680-258683-2	AOC50-DUP04-FAL24	Total/NA	Water	8260D	
680-258683-3	G6M-02-01X-FAL24	Total/NA	Water	8260D	
680-258683-4	G6M-02-04X-FAL24	Total/NA	Water	8260D	
680-258683-5	G6M-02-06X-FAL24	Total/NA	Water	8260D	
680-258683-16	G6M-04-10X-FAL24	Total/NA	Water	8260D	
680-258683-19	G6M-07-01X-FAL24	Total/NA	Water	8260D	
MB 680-865582/8	Method Blank	Total/NA	Water	8260D	
LCS 680-865582/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-865582/5	Lab Control Sample Dup	Total/NA	Water	8260D	
680-258683-29 MS	MW-3-FAL24	Total/NA	Water	8260D	
680-258683-29 MSD	MW-3-FAL24	Total/NA	Water	8260D	

Analysis Batch: 866016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-18	G6M-04-14X-FAL24	Total/NA	Water	8260D	
680-258683-22	G6M-13-04X-FAL24	Total/NA	Water	8260D	
680-258683-23	G6M-13-05X-FAL24	Total/NA	Water	8260D	
680-258683-24	G6M-13-06X-FAL24	Total/NA	Water	8260D	
680-258683-27	G6M-97-05B-FAL24	Total/NA	Water	8260D	
MB 680-866016/8	Method Blank	Total/NA	Water	8260D	
LCS 680-866016/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 866016 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-866016/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 866305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-17	G6M-04-13X-FAL24	Total/NA	Water	8260D	
680-258683-20	G6M-07-02X-FAL24	Total/NA	Water	8260D	
680-258683-21	G6M-13-01X-FAL24	Total/NA	Water	8260D	
680-258683-25	G6M-95-19X-FAL24	Total/NA	Water	8260D	
680-258683-26	G6M-95-20X-FAL24	Total/NA	Water	8260D	
680-258683-29	MW-3-FAL24	Total/NA	Water	8260D	
680-258683-30	MW-7-FAL24	Total/NA	Water	8260D	
MB 680-866305/8	Method Blank	Total/NA	Water	8260D	
LCS 680-866305/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-866305/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC VOA

Analysis Batch: 865006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-1	AOC50-DUP02-FAL24	Total/NA	Water	RSK-175	
680-258683-3	G6M-02-01X-FAL24	Total/NA	Water	RSK-175	
680-258683-13	G6M-04-07X-FAL24	Total/NA	Water	RSK-175	
680-258683-14	G6M-04-09X-FAL24	Total/NA	Water	RSK-175	
680-258683-15	G6M-04-10A-FAL24	Total/NA	Water	RSK-175	
680-258683-19	G6M-07-01X-FAL24	Total/NA	Water	RSK-175	
680-258683-20	G6M-07-02X-FAL24	Total/NA	Water	RSK-175	
680-258683-21	G6M-13-01X-FAL24	Total/NA	Water	RSK-175	
680-258683-23	G6M-13-05X-FAL24	Total/NA	Water	RSK-175	
680-258683-24	G6M-13-06X-FAL24	Total/NA	Water	RSK-175	
680-258683-27	G6M-97-05B-FAL24	Total/NA	Water	RSK-175	
MB 680-865006/30	Method Blank	Total/NA	Water	RSK-175	
LCS 680-865006/28	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-865006/29	Lab Control Sample Dup	Total/NA	Water	RSK-175	
680-258683-15 MS	G6M-04-10A-FAL24	Total/NA	Water	RSK-175	
680-258683-15 MSD	G6M-04-10A-FAL24	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 867517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-1	AOC50-DUP02-FAL24	Total/NA	Water	9056A	
680-258683-3	G6M-02-01X-FAL24	Total/NA	Water	9056A	
680-258683-13	G6M-04-07X-FAL24	Total/NA	Water	9056A	
680-258683-14	G6M-04-09X-FAL24	Total/NA	Water	9056A	
680-258683-15	G6M-04-10A-FAL24	Total/NA	Water	9056A	
680-258683-19	G6M-07-01X-FAL24	Total/NA	Water	9056A	
680-258683-20	G6M-07-02X-FAL24	Total/NA	Water	9056A	
680-258683-21	G6M-13-01X-FAL24	Total/NA	Water	9056A	
680-258683-23	G6M-13-05X-FAL24	Total/NA	Water	9056A	
680-258683-24	G6M-13-06X-FAL24	Total/NA	Water	9056A	
MB 680-867517/2	Method Blank	Total/NA	Water	9056A	
LCS 680-867517/3	Lab Control Sample	Total/NA	Water	9056A	

HPLC/IC (Continued)

Analysis Batch: 867517 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-867517/4	Lab Control Sample Dup	Total/NA	Water	9056A	
680-258683-15 MS	G6M-04-10A-FAL24	Total/NA	Water	9056A	
680-258683-15 MSD	G6M-04-10A-FAL24	Total/NA	Water	9056A	

Analysis Batch: 867518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-27	G6M-97-05B-FAL24	Total/NA	Water	9056A	
MB 680-867518/33	Method Blank	Total/NA	Water	9056A	
LCS 680-867518/34	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-867518/35	Lab Control Sample Dup	Total/NA	Water	9056A	
680-258683-27 MS	G6M-97-05B-FAL24	Total/NA	Water	9056A	
680-258683-27 MSD	G6M-97-05B-FAL24	Total/NA	Water	9056A	

Metals

Prep Batch: 864925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-1	AOC50-DUP02-FAL24	Dissolved	Water	3005A	
680-258683-3	G6M-02-01X-FAL24	Dissolved	Water	3005A	
680-258683-4	G6M-02-04X-FAL24	Dissolved	Water	3005A	
680-258683-5	G6M-02-06X-FAL24	Dissolved	Water	3005A	
680-258683-7	G6M-02-12X-FAL24	Dissolved	Water	3005A	
680-258683-10	G6M-04-01X-FAL24	Dissolved	Water	3005A	
680-258683-14	G6M-04-09X-FAL24	Dissolved	Water	3005A	
680-258683-19	G6M-07-01X-FAL24	Dissolved	Water	3005A	
680-258683-20	G6M-07-02X-FAL24	Dissolved	Water	3005A	
680-258683-21	G6M-13-01X-FAL24	Dissolved	Water	3005A	
680-258683-23	G6M-13-05X-FAL24	Dissolved	Water	3005A	
680-258683-24	G6M-13-06X-FAL24	Dissolved	Water	3005A	
680-258683-26	G6M-95-20X-FAL24	Dissolved	Water	3005A	
680-258683-27	G6M-97-05B-FAL24	Dissolved	Water	3005A	
680-258683-28	G6M-97-28X-FAL24	Dissolved	Water	3005A	
680-258683-29	MW-3-FAL24	Dissolved	Water	3005A	
680-258683-30	MW-7-FAL24	Dissolved	Water	3005A	
680-258683-31	AOC50-RB-02-FAL24	Dissolved	Water	3005A	
680-258683-32	AOC50-RB-03-FAL24	Dissolved	Water	3005A	
680-258683-33	AOC50-RB-04-FAL24	Dissolved	Water	3005A	
MB 680-864925/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-864925/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-258683-29 MS	MW-3-FAL24	Dissolved	Water	3005A	
680-258683-29 MSD	MW-3-FAL24	Dissolved	Water	3005A	

Prep Batch: 864927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-1	AOC50-DUP02-FAL24	Dissolved	Water	3005A	
680-258683-3	G6M-02-01X-FAL24	Dissolved	Water	3005A	
680-258683-4	G6M-02-04X-FAL24	Dissolved	Water	3005A	
680-258683-5	G6M-02-06X-FAL24	Dissolved	Water	3005A	
680-258683-7	G6M-02-12X-FAL24	Dissolved	Water	3005A	
680-258683-10	G6M-04-01X-FAL24	Dissolved	Water	3005A	
680-258683-14	G6M-04-09X-FAL24	Dissolved	Water	3005A	

Metals (Continued)

Prep Batch: 864927 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-19	G6M-07-01X-FAL24	Dissolved	Water	3005A	
680-258683-20	G6M-07-02X-FAL24	Dissolved	Water	3005A	
680-258683-21	G6M-13-01X-FAL24	Dissolved	Water	3005A	
680-258683-23	G6M-13-05X-FAL24	Dissolved	Water	3005A	
680-258683-24	G6M-13-06X-FAL24	Dissolved	Water	3005A	
680-258683-26	G6M-95-20X-FAL24	Dissolved	Water	3005A	
680-258683-27	G6M-97-05B-FAL24	Dissolved	Water	3005A	
680-258683-28	G6M-97-28X-FAL24	Dissolved	Water	3005A	
680-258683-29	MW-3-FAL24	Dissolved	Water	3005A	
680-258683-30	MW-7-FAL24	Dissolved	Water	3005A	
680-258683-31	AOC50-RB-02-FAL24	Dissolved	Water	3005A	
680-258683-32	AOC50-RB-03-FAL24	Dissolved	Water	3005A	
680-258683-33	AOC50-RB-04-FAL24	Dissolved	Water	3005A	
MB 680-864927/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-864927/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-258683-29 MS	MW-3-FAL24	Dissolved	Water	3005A	
680-258683-29 MSD	MW-3-FAL24	Dissolved	Water	3005A	

Prep Batch: 864928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-2	AOC50-DUP04-FAL24	Dissolved	Water	3005A	
680-258683-6	G6M-02-07X-FAL24	Dissolved	Water	3005A	
680-258683-8	G6M-02-13X-FAL24	Dissolved	Water	3005A	
680-258683-9	G6M-03-08X-FAL24	Dissolved	Water	3005A	
680-258683-12	G6M-04-06X-FAL24	Dissolved	Water	3005A	
680-258683-13	G6M-04-07X-FAL24	Dissolved	Water	3005A	
680-258683-15	G6M-04-10A-FAL24	Dissolved	Water	3005A	
680-258683-18	G6M-04-14X-FAL24	Dissolved	Water	3005A	
680-258683-22	G6M-13-04X-FAL24	Dissolved	Water	3005A	
MB 680-864928/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-864928/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-258683-15 MS	G6M-04-10A-FAL24	Dissolved	Water	3005A	
680-258683-15 MSD	G6M-04-10A-FAL24	Dissolved	Water	3005A	

Prep Batch: 864929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-2	AOC50-DUP04-FAL24	Dissolved	Water	3005A	
680-258683-6	G6M-02-07X-FAL24	Dissolved	Water	3005A	
680-258683-8	G6M-02-13X-FAL24	Dissolved	Water	3005A	
680-258683-9	G6M-03-08X-FAL24	Dissolved	Water	3005A	
680-258683-12	G6M-04-06X-FAL24	Dissolved	Water	3005A	
680-258683-13	G6M-04-07X-FAL24	Dissolved	Water	3005A	
680-258683-15	G6M-04-10A-FAL24	Dissolved	Water	3005A	
680-258683-18	G6M-04-14X-FAL24	Dissolved	Water	3005A	
680-258683-22	G6M-13-04X-FAL24	Dissolved	Water	3005A	
MB 680-864929/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-864929/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-258683-15 MS	G6M-04-10A-FAL24	Dissolved	Water	3005A	
680-258683-15 MSD	G6M-04-10A-FAL24	Dissolved	Water	3005A	

Metals

Analysis Batch: 865117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-1	AOC50-DUP02-FAL24	Dissolved	Water	6010C	864925
680-258683-3	G6M-02-01X-FAL24	Dissolved	Water	6010C	864925
680-258683-4	G6M-02-04X-FAL24	Dissolved	Water	6010C	864925
680-258683-5	G6M-02-06X-FAL24	Dissolved	Water	6010C	864925
680-258683-7	G6M-02-12X-FAL24	Dissolved	Water	6010C	864925
680-258683-10	G6M-04-01X-FAL24	Dissolved	Water	6010C	864925
680-258683-14	G6M-04-09X-FAL24	Dissolved	Water	6010C	864925
680-258683-19	G6M-07-01X-FAL24	Dissolved	Water	6010C	864925
680-258683-20	G6M-07-02X-FAL24	Dissolved	Water	6010C	864925
680-258683-21	G6M-13-01X-FAL24	Dissolved	Water	6010C	864925
680-258683-23	G6M-13-05X-FAL24	Dissolved	Water	6010C	864925
680-258683-24	G6M-13-06X-FAL24	Dissolved	Water	6010C	864925
680-258683-26	G6M-95-20X-FAL24	Dissolved	Water	6010C	864925
680-258683-27	G6M-97-05B-FAL24	Dissolved	Water	6010C	864925
680-258683-28	G6M-97-28X-FAL24	Dissolved	Water	6010C	864925
680-258683-29	MW-3-FAL24	Dissolved	Water	6010C	864925
680-258683-30	MW-7-FAL24	Dissolved	Water	6010C	864925
680-258683-31	AOC50-RB-02-FAL24	Dissolved	Water	6010C	864925
680-258683-32	AOC50-RB-03-FAL24	Dissolved	Water	6010C	864925
680-258683-33	AOC50-RB-04-FAL24	Dissolved	Water	6010C	864925
MB 680-864925/1-A	Method Blank	Total Recoverable	Water	6010C	864925
LCS 680-864925/2-A	Lab Control Sample	Total Recoverable	Water	6010C	864925
680-258683-29 MS	MW-3-FAL24	Dissolved	Water	6010C	864925
680-258683-29 MSD	MW-3-FAL24	Dissolved	Water	6010C	864925

Analysis Batch: 865192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-1	AOC50-DUP02-FAL24	Dissolved	Water	6020A	864927
680-258683-3	G6M-02-01X-FAL24	Dissolved	Water	6020A	864927
680-258683-4	G6M-02-04X-FAL24	Dissolved	Water	6020A	864927
680-258683-5	G6M-02-06X-FAL24	Dissolved	Water	6020A	864927
680-258683-7	G6M-02-12X-FAL24	Dissolved	Water	6020A	864927
680-258683-10	G6M-04-01X-FAL24	Dissolved	Water	6020A	864927
680-258683-14	G6M-04-09X-FAL24	Dissolved	Water	6020A	864927
680-258683-19	G6M-07-01X-FAL24	Dissolved	Water	6020A	864927
680-258683-20	G6M-07-02X-FAL24	Dissolved	Water	6020A	864927
680-258683-21	G6M-13-01X-FAL24	Dissolved	Water	6020A	864927
680-258683-23	G6M-13-05X-FAL24	Dissolved	Water	6020A	864927
680-258683-24	G6M-13-06X-FAL24	Dissolved	Water	6020A	864927
680-258683-26	G6M-95-20X-FAL24	Dissolved	Water	6020A	864927
680-258683-27	G6M-97-05B-FAL24	Dissolved	Water	6020A	864927
680-258683-28	G6M-97-28X-FAL24	Dissolved	Water	6020A	864927
680-258683-29	MW-3-FAL24	Dissolved	Water	6020A	864927
680-258683-30	MW-7-FAL24	Dissolved	Water	6020A	864927
680-258683-31	AOC50-RB-02-FAL24	Dissolved	Water	6020A	864927
680-258683-32	AOC50-RB-03-FAL24	Dissolved	Water	6020A	864927
680-258683-33	AOC50-RB-04-FAL24	Dissolved	Water	6020A	864927
MB 680-864927/1-A	Method Blank	Total Recoverable	Water	6020A	864927
LCS 680-864927/2-A	Lab Control Sample	Total Recoverable	Water	6020A	864927
680-258683-29 MS	MW-3-FAL24	Dissolved	Water	6020A	864927
680-258683-29 MSD	MW-3-FAL24	Dissolved	Water	6020A	864927

Metals

Analysis Batch: 865664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-2	AOC50-DUP04-FAL24	Dissolved	Water	6020A	864929
680-258683-6	G6M-02-07X-FAL24	Dissolved	Water	6020A	864929
680-258683-8	G6M-02-13X-FAL24	Dissolved	Water	6020A	864929
680-258683-9	G6M-03-08X-FAL24	Dissolved	Water	6020A	864929
680-258683-12	G6M-04-06X-FAL24	Dissolved	Water	6020A	864929
680-258683-13	G6M-04-07X-FAL24	Dissolved	Water	6020A	864929
680-258683-15	G6M-04-10A-FAL24	Dissolved	Water	6020A	864929
680-258683-18	G6M-04-14X-FAL24	Dissolved	Water	6020A	864929
680-258683-22	G6M-13-04X-FAL24	Dissolved	Water	6020A	864929
MB 680-864929/1-A	Method Blank	Total Recoverable	Water	6020A	864929
LCS 680-864929/2-A	Lab Control Sample	Total Recoverable	Water	6020A	864929
680-258683-15 MS	G6M-04-10A-FAL24	Dissolved	Water	6020A	864929
680-258683-15 MSD	G6M-04-10A-FAL24	Dissolved	Water	6020A	864929

Analysis Batch: 865799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-2	AOC50-DUP04-FAL24	Dissolved	Water	6010C	864928
680-258683-6	G6M-02-07X-FAL24	Dissolved	Water	6010C	864928
680-258683-8	G6M-02-13X-FAL24	Dissolved	Water	6010C	864928
680-258683-9	G6M-03-08X-FAL24	Dissolved	Water	6010C	864928
680-258683-12	G6M-04-06X-FAL24	Dissolved	Water	6010C	864928
680-258683-13	G6M-04-07X-FAL24	Dissolved	Water	6010C	864928
680-258683-15	G6M-04-10A-FAL24	Dissolved	Water	6010C	864928
680-258683-18	G6M-04-14X-FAL24	Dissolved	Water	6010C	864928
680-258683-22	G6M-13-04X-FAL24	Dissolved	Water	6010C	864928
MB 680-864928/1-A	Method Blank	Total Recoverable	Water	6010C	864928
LCS 680-864928/2-A	Lab Control Sample	Total Recoverable	Water	6010C	864928
680-258683-15 MS	G6M-04-10A-FAL24	Dissolved	Water	6010C	864928
680-258683-15 MSD	G6M-04-10A-FAL24	Dissolved	Water	6010C	864928

General Chemistry

Analysis Batch: 865037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-1	AOC50-DUP02-FAL24	Total/NA	Water	9034	
680-258683-3	G6M-02-01X-FAL24	Total/NA	Water	9034	
680-258683-13	G6M-04-07X-FAL24	Total/NA	Water	9034	
680-258683-14	G6M-04-09X-FAL24	Total/NA	Water	9034	
680-258683-15	G6M-04-10A-FAL24	Total/NA	Water	9034	
680-258683-19	G6M-07-01X-FAL24	Total/NA	Water	9034	
680-258683-20	G6M-07-02X-FAL24	Total/NA	Water	9034	
680-258683-21	G6M-13-01X-FAL24	Total/NA	Water	9034	
680-258683-23	G6M-13-05X-FAL24	Total/NA	Water	9034	
680-258683-24	G6M-13-06X-FAL24	Total/NA	Water	9034	
680-258683-27	G6M-97-05B-FAL24	Total/NA	Water	9034	
MB 680-865037/1	Method Blank	Total/NA	Water	9034	
LCS 680-865037/2	Lab Control Sample	Total/NA	Water	9034	
LCSD 680-865037/3	Lab Control Sample Dup	Total/NA	Water	9034	
680-258683-15 MS	G6M-04-10A-FAL24	Total/NA	Water	9034	
680-258683-15 MSD	G6M-04-10A-FAL24	Total/NA	Water	9034	

General Chemistry

Analysis Batch: 865181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-3	G6M-02-01X-FAL24	Total/NA	Water	2320B-2011	
680-258683-15	G6M-04-10A-FAL24	Total/NA	Water	2320B-2011	
MB 680-865181/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-865181/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-865181/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 865400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-21	G6M-13-01X-FAL24	Total/NA	Water	2320B-2011	
680-258683-23	G6M-13-05X-FAL24	Total/NA	Water	2320B-2011	
680-258683-24	G6M-13-06X-FAL24	Total/NA	Water	2320B-2011	
MB 680-865400/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-865400/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-865400/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 865409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-1	AOC50-DUP02-FAL24	Total/NA	Water	2320B-2011	
680-258683-13	G6M-04-07X-FAL24	Total/NA	Water	2320B-2011	
680-258683-14	G6M-04-09X-FAL24	Total/NA	Water	2320B-2011	
680-258683-19	G6M-07-01X-FAL24	Total/NA	Water	2320B-2011	
680-258683-20	G6M-07-02X-FAL24	Total/NA	Water	2320B-2011	
680-258683-27	G6M-97-05B-FAL24	Total/NA	Water	2320B-2011	
MB 680-865409/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-865409/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-865409/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-258683-27 DU	G6M-97-05B-FAL24	Total/NA	Water	2320B-2011	

Analysis Batch: 865583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-1	AOC50-DUP02-FAL24	Total/NA	Water	353.2-1993 R2.0	
680-258683-3	G6M-02-01X-FAL24	Total/NA	Water	353.2-1993 R2.0	
MB 680-865583/14	Method Blank	Total/NA	Water	353.2-1993 R2.0	
LCS 680-865583/15	Lab Control Sample	Total/NA	Water	353.2-1993 R2.0	

Analysis Batch: 865654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-13	G6M-04-07X-FAL24	Total/NA	Water	353.2-1993 R2.0	
680-258683-14	G6M-04-09X-FAL24	Total/NA	Water	353.2-1993 R2.0	
680-258683-15	G6M-04-10A-FAL24	Total/NA	Water	353.2-1993 R2.0	
680-258683-19	G6M-07-01X-FAL24	Total/NA	Water	353.2-1993 R2.0	
680-258683-20	G6M-07-02X-FAL24	Total/NA	Water	353.2-1993 R2.0	
680-258683-21	G6M-13-01X-FAL24	Total/NA	Water	353.2-1993 R2.0	
680-258683-23	G6M-13-05X-FAL24	Total/NA	Water	353.2-1993 R2.0	
680-258683-24	G6M-13-06X-FAL24	Total/NA	Water	353.2-1993 R2.0	
680-258683-27	G6M-97-05B-FAL24	Total/NA	Water	353.2-1993 R2.0	
MB 680-865654/2	Method Blank	Total/NA	Water	353.2-1993 R2.0	
LCS 680-865654/1	Lab Control Sample	Total/NA	Water	353.2-1993 R2.0	
680-258683-15 MS	G6M-04-10A-FAL24	Total/NA	Water	353.2-1993 R2.0	
680-258683-15 MSD	G6M-04-10A-FAL24	Total/NA	Water	353.2-1993 R2.0	
680-258683-27 MS	G6M-97-05B-FAL24	Total/NA	Water	353.2-1993 R2.0	

General Chemistry (Continued)

Analysis Batch: 865654 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-27 MSD	G6M-97-05B-FAL24	Total/NA	Water	353.2-1993 R2.0	

Analysis Batch: 866462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258683-1	AOC50-DUP02-FAL24	Total/NA	Water	9060A	
680-258683-3	G6M-02-01X-FAL24	Total/NA	Water	9060A	
680-258683-13	G6M-04-07X-FAL24	Total/NA	Water	9060A	
680-258683-14	G6M-04-09X-FAL24	Total/NA	Water	9060A	
680-258683-15	G6M-04-10A-FAL24	Total/NA	Water	9060A	
680-258683-19	G6M-07-01X-FAL24	Total/NA	Water	9060A	
680-258683-20	G6M-07-02X-FAL24	Total/NA	Water	9060A	
680-258683-21	G6M-13-01X-FAL24	Total/NA	Water	9060A	
680-258683-23	G6M-13-05X-FAL24	Total/NA	Water	9060A	
680-258683-24	G6M-13-06X-FAL24	Total/NA	Water	9060A	
680-258683-27	G6M-97-05B-FAL24	Total/NA	Water	9060A	
MB 680-866462/3	Method Blank	Total/NA	Water	9060A	
LCS 680-866462/4	Lab Control Sample	Total/NA	Water	9060A	
LCSD 680-866462/5	Lab Control Sample Dup	Total/NA	Water	9060A	
680-258683-15 MS	G6M-04-10A-FAL24	Total/NA	Water	9060A	
680-258683-15 MSD	G6M-04-10A-FAL24	Total/NA	Water	9060A	

Client Sample ID: AOC50-DUP02-FAL24

Lab Sample ID: 680-258683-1

Date Collected: 11/12/24 11:20

Matrix: Water

Date Received: 11/15/24 10:11

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	865582	11/21/24 18:04	BL	EET SAV
	Instrument ID: CMSAB									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	865006	11/18/24 18:34	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		1	2 mL	2 mL	867517	12/05/24 16:09	AF	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:55	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 16:24	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865409	11/19/24 21:36	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	865583	11/20/24 16:10	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	866462	11/25/24 18:18	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: AOC50-DUP04-FAL24

Lab Sample ID: 680-258683-2

Date Collected: 11/12/24 09:40

Matrix: Water

Date Received: 11/15/24 10:11

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	865582	11/21/24 18:26	BL	EET SAV
	Instrument ID: CMSAB									
Dissolved	Prep	3005A			25 mL	25 mL	864928	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 17:10	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864929	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 13:36	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: G6M-02-01X-FAL24

Lab Sample ID: 680-258683-3

Date Collected: 11/08/24 13:20

Matrix: Water

Date Received: 11/15/24 10:11

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	865582	11/21/24 16:56	BL	EET SAV
	Instrument ID: CMSAB									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	865006	11/18/24 19:23	OK	EET SAV
	Instrument ID: CVGU									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-02-01X-FAL24
Lab Sample ID: 680-258683-3
Date Collected: 11/08/24 13:20
Matrix: Water
Date Received: 11/15/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9056A		1	2 mL	2 mL	867517	12/05/24 18:50	AF	EET SAV
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:51	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 16:16	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865181	11/19/24 00:06	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	865583	11/20/24 16:12	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	866462	11/25/24 18:37	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: G6M-02-04X-FAL24
Lab Sample ID: 680-258683-4
Date Collected: 11/12/24 14:20
Matrix: Water
Date Received: 11/15/24 10:11

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	865582	11/21/24 18:49	BL	EET SAV
	Instrument ID: CMSAB									
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:53	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 16:22	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: G6M-02-06X-FAL24
Lab Sample ID: 680-258683-5
Date Collected: 11/12/24 15:30
Matrix: Water
Date Received: 11/15/24 10:11

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	865582	11/21/24 19:12	BL	EET SAV
	Instrument ID: CMSAB									
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:29	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 16:00	BWR	EET SAV
	Instrument ID: ICPMSG									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-02-07X-FAL24
Lab Sample ID: 680-258683-6
Date Collected: 11/12/24 14:00
Matrix: Water
Date Received: 11/15/24 10:11

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	865335	11/20/24 14:48	P1C	EET SAV
	Instrument ID: CMSAJ									
Dissolved	Prep	3005A			25 mL	25 mL	864928	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 16:48	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864929	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 13:26	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: G6M-02-12X-FAL24
Lab Sample ID: 680-258683-7
Date Collected: 11/08/24 12:00
Matrix: Water
Date Received: 11/15/24 10:11

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	865335	11/20/24 15:09	P1C	EET SAV
	Instrument ID: CMSAJ									
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:57	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 16:26	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: G6M-02-13X-FAL24
Lab Sample ID: 680-258683-8
Date Collected: 11/12/24 15:50
Matrix: Water
Date Received: 11/15/24 10:11

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	865335	11/20/24 15:31	P1C	EET SAV
	Instrument ID: CMSAJ									
Dissolved	Prep	3005A			25 mL	25 mL	864928	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 17:13	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864929	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 13:38	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: G6M-03-08X-FAL24
Lab Sample ID: 680-258683-9
Date Collected: 11/08/24 13:55
Matrix: Water
Date Received: 11/15/24 10:11

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	865335	11/20/24 15:53	P1C	EET SAV
	Instrument ID: CMSAJ									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-03-08X-FAL24
Lab Sample ID: 680-258683-9
Date Collected: 11/08/24 13:55
Matrix: Water
Date Received: 11/15/24 10:11

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	864928	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 17:19	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864929	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 13:42	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: G6M-04-01X-FAL24
Lab Sample ID: 680-258683-10
Date Collected: 11/08/24 14:50
Matrix: Water
Date Received: 11/15/24 10:11

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	865335	11/20/24 16:14	P1C	EET SAV
	Instrument ID: CMSAJ									
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:33	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 16:04	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: G6M-04-05X-FAL24
Lab Sample ID: 680-258683-11
Date Collected: 11/08/24 15:05
Matrix: Water
Date Received: 11/15/24 10:11

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	865335	11/20/24 16:36	P1C	EET SAV
	Instrument ID: CMSAJ									

Client Sample ID: G6M-04-06X-FAL24
Lab Sample ID: 680-258683-12
Date Collected: 11/11/24 14:30
Matrix: Water
Date Received: 11/15/24 10:11

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	865335	11/20/24 16:58	P1C	EET SAV
	Instrument ID: CMSAJ									
Dissolved	Prep	3005A			25 mL	25 mL	864928	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 17:16	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864929	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 13:40	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: G6M-04-07X-FAL24

Lab Sample ID: 680-258683-13

Date Collected: 11/11/24 11:10
Date Received: 11/15/24 10:11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865335	11/20/24 17:19	P1C	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	865006	11/18/24 19:32	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		1	2 mL	2 mL	867517	12/05/24 18:58	AF	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	864928	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 17:07	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864929	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 13:30	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865409	11/19/24 21:46	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	865654	11/21/24 10:17	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	290 mL	290 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	866462	11/25/24 19:27	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: G6M-04-09X-FAL24

Lab Sample ID: 680-258683-14

Date Collected: 11/12/24 10:25
Date Received: 11/15/24 10:11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865335	11/20/24 17:41	P1C	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	865006	11/18/24 19:42	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		1	2 mL	2 mL	867517	12/05/24 19:07	AF	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:31	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 16:02	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865409	11/19/24 21:56	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	865654	11/21/24 10:19	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	300 mL	300 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-04-09X-FAL24
Lab Sample ID: 680-258683-14
Date Collected: 11/12/24 10:25
Matrix: Water
Date Received: 11/15/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	40 mL	40 mL	866462	11/25/24 19:43	NVF	EET SAV

Client Sample ID: G6M-04-10A-FAL24
Lab Sample ID: 680-258683-15
Date Collected: 11/08/24 10:10
Matrix: Water
Date Received: 11/15/24 10:11

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	865335	11/20/24 18:03	P1C	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	865006	11/18/24 20:50	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		1	2 mL	2 mL	867517	12/05/24 18:18	AF	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	864928	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 16:33	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864929	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 13:16	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865181	11/19/24 00:16	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	865654	11/21/24 10:08	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	866462	11/25/24 15:24	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: G6M-04-10X-FAL24
Lab Sample ID: 680-258683-16
Date Collected: 11/08/24 15:20
Matrix: Water
Date Received: 11/15/24 10:11

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	865582	11/21/24 17:18	BL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: G6M-04-13X-FAL24
Lab Sample ID: 680-258683-17
Date Collected: 11/12/24 13:30
Matrix: Water
Date Received: 11/15/24 10:11

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	866305	11/26/24 13:30	MLL	EET SAV
	Instrument ID: CMSU									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-04-14X-FAL24
Lab Sample ID: 680-258683-18
Date Collected: 11/11/24 12:55
Matrix: Water
Date Received: 11/15/24 10:11

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	866016	11/24/24 16:48	P1C	EET SAV
	Instrument ID: CMSAB									
Dissolved	Prep	3005A			25 mL	25 mL	864928	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 17:04	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864929	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 13:28	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: G6M-07-01X-FAL24
Lab Sample ID: 680-258683-19
Date Collected: 11/08/24 10:55
Matrix: Water
Date Received: 11/15/24 10:11

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	865582	11/21/24 17:41	BL	EET SAV
	Instrument ID: CMSAB									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	865006	11/18/24 19:52	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		1	2 mL	2 mL	867517	12/05/24 19:15	AF	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:49	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 16:14	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865409	11/19/24 22:05	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	865654	11/21/24 10:16	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	866462	11/25/24 20:01	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: G6M-07-02X-FAL24
Lab Sample ID: 680-258683-20
Date Collected: 11/12/24 11:20
Matrix: Water
Date Received: 11/15/24 10:11

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	866305	11/26/24 13:53	MLL	EET SAV
	Instrument ID: CMSU									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	865006	11/18/24 20:01	OK	EET SAV
	Instrument ID: CVGU									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-07-02X-FAL24
Lab Sample ID: 680-258683-20
Date Collected: 11/12/24 11:20
Matrix: Water
Date Received: 11/15/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9056A		1	2 mL	2 mL	867517	12/05/24 19:23	AF	EET SAV
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:46	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 16:12	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865409	11/19/24 22:13	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	865654	11/21/24 10:14	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	300 mL	300 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	866462	11/25/24 20:17	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: G6M-13-01X-FAL24
Lab Sample ID: 680-258683-21
Date Collected: 11/12/24 10:45
Matrix: Water
Date Received: 11/15/24 10:11

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	866305	11/26/24 14:15	MLL	EET SAV
	Instrument ID: CMSU									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	865006	11/18/24 20:11	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		1	2 mL	2 mL	867517	12/05/24 19:31	AF	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:44	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 16:10	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865400	11/19/24 19:13	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	865654	11/21/24 10:24	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	300 mL	300 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	866462	11/25/24 20:36	NVF	EET SAV
	Instrument ID: TOC8									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-13-04X-FAL24
Lab Sample ID: 680-258683-22
Date Collected: 11/11/24 15:45
Matrix: Water
Date Received: 11/15/24 10:11

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	866016	11/24/24 17:11	P1C	EET SAV
	Instrument ID: CMSAB									
Dissolved	Prep	3005A			25 mL	25 mL	864928	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 17:22	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864929	11/18/24 08:25	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 13:44	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: G6M-13-05X-FAL24
Lab Sample ID: 680-258683-23
Date Collected: 11/11/24 13:50
Matrix: Water
Date Received: 11/15/24 10:11

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	866016	11/24/24 17:34	P1C	EET SAV
	Instrument ID: CMSAB									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	865006	11/18/24 20:21	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		1	2 mL	2 mL	867517	12/05/24 19:39	AF	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/19/24 00:06	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 16:30	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865400	11/19/24 18:53	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	865654	11/21/24 10:21	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	300 mL	300 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	866462	11/25/24 20:54	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: G6M-13-06X-FAL24
Lab Sample ID: 680-258683-24
Date Collected: 11/11/24 15:25
Matrix: Water
Date Received: 11/15/24 10:11

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	866016	11/24/24 17:56	P1C	EET SAV
	Instrument ID: CMSAB									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	865006	11/18/24 20:31	OK	EET SAV
	Instrument ID: CVGU									

Client Sample ID: G6M-13-06X-FAL24
Lab Sample ID: 680-258683-24
Date Collected: 11/11/24 15:25
Matrix: Water
Date Received: 11/15/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9056A		1	2 mL	2 mL	867517	12/05/24 19:47	AF	EET SAV
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/19/24 00:08	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 16:32	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865400	11/19/24 19:03	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	865654	11/21/24 10:23	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	300 mL	300 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	866462	11/25/24 21:10	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: G6M-95-19X-FAL24
Lab Sample ID: 680-258683-25
Date Collected: 11/12/24 14:45
Matrix: Water
Date Received: 11/15/24 10:11

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	866305	11/26/24 14:38	MLL	EET SAV
	Instrument ID: CMSU									

Client Sample ID: G6M-95-20X-FAL24
Lab Sample ID: 680-258683-26
Date Collected: 11/12/24 09:40
Matrix: Water
Date Received: 11/15/24 10:11

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	866305	11/26/24 15:00	MLL	EET SAV
	Instrument ID: CMSU									
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:59	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 16:28	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: G6M-97-05B-FAL24
Lab Sample ID: 680-258683-27
Date Collected: 11/11/24 15:25
Matrix: Water
Date Received: 11/15/24 10:11

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	866016	11/24/24 18:19	P1C	EET SAV
	Instrument ID: CMSAB									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-97-05B-FAL24
Lab Sample ID: 680-258683-27
Date Collected: 11/11/24 15:25
Matrix: Water
Date Received: 11/15/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	865006	11/18/24 20:40	OK	EET SAV
Total/NA	Analysis	9056A		1	2 mL	2 mL	867518	12/05/24 20:37	AF	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:22	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 15:50	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865409	11/19/24 21:18	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	865654	11/21/24 10:26	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	290 mL	290 mL	865037	11/18/24 13:49	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	866462	11/25/24 21:28	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: G6M-97-28X-FAL24
Lab Sample ID: 680-258683-28
Date Collected: 11/12/24 12:30
Matrix: Water
Date Received: 11/15/24 10:11

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	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:20	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 15:44	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: MW-3-FAL24
Lab Sample ID: 680-258683-29
Date Collected: 11/12/24 11:00
Matrix: Water
Date Received: 11/15/24 10:11

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	866305	11/26/24 15:23	MLL	EET SAV
	Instrument ID: CMSU									
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:05	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 15:38	BWR	EET SAV
	Instrument ID: ICPMSG									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: MW-7-FAL24
Lab Sample ID: 680-258683-30
Date Collected: 11/12/24 15:30
Matrix: Water
Date Received: 11/15/24 10:11

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	866305	11/26/24 15:45	MLL	EET SAV
	Instrument ID: CMSU									
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:40	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 16:06	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: AOC50-RB-02-FAL24
Lab Sample ID: 680-258683-31
Date Collected: 11/08/24 14:00
Matrix: Water
Date Received: 11/15/24 10:11

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	865326	11/20/24 12:50	P1C	EET SAV
	Instrument ID: CMSAB									
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:42	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 16:08	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: AOC50-RB-03-FAL24
Lab Sample ID: 680-258683-32
Date Collected: 11/11/24 16:00
Matrix: Water
Date Received: 11/15/24 10:11

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	865326	11/20/24 13:13	P1C	EET SAV
	Instrument ID: CMSAB									
Dissolved	Prep	3005A			25 mL	25 mL	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:27	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 15:58	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: AOC50-RB-04-FAL24
Lab Sample ID: 680-258683-33
Date Collected: 11/12/24 12:20
Matrix: Water
Date Received: 11/15/24 10:11

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	865326	11/20/24 13:36	P1C	EET SAV
	Instrument ID: CMSAB									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: AOC50-RB-04-FAL24
Lab Sample ID: 680-258683-33
Date Collected: 11/12/24 12:20
Matrix: Water
Date Received: 11/15/24 10:11

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	864925	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6010C		1			865117	11/18/24 23:25	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	864927	11/18/24 08:20	RR	EET SAV
Dissolved	Analysis	6020A		1			865192	11/18/24 15:52	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: Trip Blank
Lab Sample ID: 680-258683-34
Date Collected: 11/12/24 00:00
Matrix: Water
Date Received: 11/15/24 10:11

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	865326	11/20/24 13:59	P1C	EET SAV
	Instrument ID: CMSAB									
Total/NA	Analysis	8260D		1	5 mL	5 mL	865335	11/20/24 14:04	P1C	EET SAV
	Instrument ID: CMSAJ									

Laboratory References:
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2463	09-22-26

Method Summary

Client: Seres Engineering & Services LLC
Job ID: 680-258683-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds (GC/MS)	SW846	EET SAV
RSK-175	Dissolved Gases (GC)	RSK	EET SAV
9056A	Anions, Ion Chromatography	SW846	EET SAV
6010C	Metals (ICP)	SW846	EET SAV
6020A	Metals (ICP/MS)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
353.2-1993 R2.0	Nitrogen, Nitrate-Nitrite	MCAWW	EET SAV
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	EET SAV
9060A	Organic Carbon, Total (TOC)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipr

680-258683 Chain of Custody

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024

	Sample ID	Matrix	Date	Time	Samp Init.	A2320B (A) 46	E353.2 (A) 47	RSK175 (A) 8	SW6010C/FLDFLT (B) 9	SW6020A/FLDFLT (B) 9	SW8260D - VOCs 29	SW9034 (A) 7	SW9056A - SO4 5	SW9060A - TOC 10	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	AOC50-DUP01-FAL24	WG							X	X	X				G6M-04-04X	FD1	94.00	104.00	1	
2	AOC50-DUP02-FAL24	WG	11-12-24	1120	DC	X	X	X	X	X	X	X	X	X	G6M-07-02X	FD1	22.50	27.50	1	
3	AOC50-DUP03-FAL24	WG				X	X	X	X	X	X	X	X	X	G6M-13-02X	FD1	115.00	125.00	1	
4	AOC50-DUP04-FAL24	WG	11-12-24	940	DC				X	X	X				G6M-95-20X	FD1	18.00	23.00	1	
5	G6M-02-01X-FAL24	WG	11-8-24	1320	DC	X	X	X	X	X	X	X	X	X	G6M-02-01X	N1	80.00	95.00	1	
6	G6M-02-04X-FAL24	WG	11-12-24	1420	AF				X	X	X				G6M-02-04X	N1	90.00	105.00	1	
7	G6M-02-06X-FAL24	WG	11-12-24	1530	CS				X	X	X				G6M-02-06X	N1	55.00	65.00	1	
8	G6M-02-07X-FAL24	WG	11-12-24	1400	CS				X	X	X				G6M-02-07X	N1	30.00	40.00	1	
9	G6M-02-08X-FAL24	WG							X	X	X				G6M-02-08X	N1	60.00	70.00	1	
10	G6M-02-11X-FAL24	WG							X	X	X				G6M-02-11X	N1	125.00	135.00	1	
11	G6M-02-12X-FAL24	WG	11-8-24	1200	CS				X	X	X				G6M-02-12X	N1	125.00	135.00	1	

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/13/24	800		11/13/24	11:00
	11/13/24	18:31		11/13/24	18:31
	11/14/24	1703	FedEx	11/14/24	17:03
			C. Munn	11/15/24	1011

Shipping Date / Carrier / Airbill Number
Shipping Date:

Received by Laboratory: *(Signature, Date, Time)* **& condition**
0.2/0.2 0.6/0.6 0.3/0.3 1.3/1.3 0.3/0.3 0.8/0.8

ENV.COC_Field
October 16, 2024

CHAIN-OF-CUSTODY RECORD

Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

						Analytical Test Method	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC						
	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024						46	47	8	9	9	29	7	5	10						
	Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
12	G6M-02-13X-FAL24	WG	11-12-24	1550	AE					X	X	X				G6M-02-13X	N1	110.00	120.00	1	
13	G6M-03-07X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-03-07X	N1	80.00	90.00	1	
14	G6M-03-08X-FAL24	WG	11-8-24	1355	CS					X	X	X				G6M-03-08X	N1	125.00	140.00	1	
15	G6M-03-10X-FAL24	WG								X	X	X				G6M-03-10X	N1	120.00	135.00	1	
16	G6M-04-01X-FAL24	WG	11-8-24	1450	DC					X	X	X				G6M-04-01X	N1	82.00	92.00	1	
17	G6M-04-02X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-04-02X	N1	80.00	90.00	1	
18	G6M-04-03X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-04-03X	N1	85.00	95.00	1	
19	G6M-04-04X-FAL24	WG								X	X	X				G6M-04-04X	N1	94.00	104.00	1	
20	G6M-04-05X-FAL24	WG	11-8-24	1505	CS							X				G6M-04-05X	N1	100.00	110.00	1	
21	G6M-04-06X-FAL24	WG	11-11-24	1430	CS					X	X	X				G6M-04-06X	N1	95.00	136.00	1	
22	G6M-04-07X-FAL24	WG	11-11-24	1110	CS		X	X	X	X	X	X	X	X	X	G6M-04-07X	N1	120.00	130.00	1	

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/13/24	800		11/13/24	11:00
	11/13/24	18:31		11/13/24	18:31
	11/13/24	17:23	FedEx	11/14/24	17:18
				11/15/24	1011

Shipping Date / Carrier / Airbill Number
Shipping Date:

Received by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC: Ship to:	
WBS Code:		

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: A2320B (A) 46	E353.2 (A) 47	RSK175 (A) 8	SW6010C/FLDFLT (B) 9	SW6020A/FLDFLT (B) 9	SW8260D - VOCs 29	SW9034 (A) 7	SW9056A - SO4 5	SW9060A - TOC 10	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
23	G6M-04-09X-FAL24	WG	11-12-24	1025	AF	X	X	X	X	X	X	X	X	X	G6M-04-09X	N1	55.00	65.00	1	
24	G6M-04-10A-FAL24	WG	11-8-24	1010	EA	X	X	X	X	X	X	X	X	X	G6M-04-10A	MS1	30.00	40.00	1	
25	G6M-04-10A-FAL24	WG	11-8-24	1010	EA	X	X	X	X	X	X	X	X	X	G6M-04-10A	N1	30.00	40.00	1	
26	G6M-04-10A-FAL24	WG	11-8-24	1010	EA	X	X	X	X	X	X	X	X	X	G6M-04-10A	SD1	30.00	40.00	1	
27	G6M-04-10X-FAL24	WG									X				G6M-04-10X	N1	52.00	62.00	1	
28	G6M-04-11X-FAL24	WG							X	X	X				G6M-04-11X	N1	35.00	45.00	1	
29	G6M-04-13X-FAL24	WG	11-12-24	1330	DC						X				G6M-04-13X	N1	30.00	40.00	1	
30	G6M-04-14X-FAL24	WG	11-11-24	1255	EA/AF				X	X	X				G6M-04-14X	N1	80.00	90.00	1	
31	G6M-04-15X-FAL24	WG							X	X	X				G6M-04-15X	N1	70.00	80.00	1	
32	G6M-04-22X-FAL24	WG							X	X	X				G6M-04-22X	N1	74.00	84.00	1	
33	G6M-04-31X-FAL24	WG							X	X	X				G6M-04-31X	N1	68.00	78.00	1	

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/13/24	800		11/13/24	11:00
	11/13/24	18:31		11/13/24	18:31
	11/14/24	17:03	FedEx	11/14/24	17:03
			C. Mmuo	11/15/24	1010

Shipping Date / Carrier / Airbill Number
Shipping Date:

Received by Laboratory: *(Signature, Date, Time)* **& condition**

ENV.COC_Field
October 16, 2024

CHAIN-OF-CUSTODY RECORD

Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

						Analytical Test Method	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC						
Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024							46	47	8	9	9	29	7	5	10						
	Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
34	G6M-07-01X-FAL24	WG	11-8-24	1055	DC		X	X	X	X	X	X	X	X	X	G6M-07-01X	N1	78.00	98.00	1	
35	G6M-07-02X-FAL24	WG	11-12-24	1120	DC		X	X	X	X	X	X	X	X	X	G6M-07-02X	N1	22.50	27.50	1	
36	G6M-13-01X-FAL24	WG	11-12-24	1045	CS		X	X	X	X	X	X	X	X	X	G6M-13-01X	N1	125.00	135.00	1	
37	G6M-13-02X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-13-02X	N1	115.00	125.00	1	
38	G6M-13-03X-FAL24	WG										X				G6M-13-03X	N1	80.00	90.00	1	
39	G6M-13-04X-FAL24	WG	11-11-24	1545	CS					X	X	X				G6M-13-04X	N1	125.00	135.00	1	
40	G6M-13-05X-FAL24	WG	11-11-24	1350	DC		X	X	X	X	X	X	X	X	X	G6M-13-05X	N1	45.00	55.00	1	
41	G6M-13-06X-FAL24	WG	11-11-24	1525	DC		X	X	X	X	X	X	X	X	X	G6M-13-06X	N1	50.00	60.00	1	
42	G6M-95-19X-FAL24	WG	11-12-24	1445	DC							X				G6M-95-19X	N1	48.00	58.00	1	
43	G6M-95-20X-FAL24	WG	11-12-24	940	DC					X	X	X				G6M-95-20X	N1	18.00	23.00	1	
44	G6M-97-05B-FAL24	WG	11-11-24	1525	EA/AF		X	X	X	X	X	X	X	X	X	G6M-97-05B	N1	130.00	135.00	1	

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/13/24	800		11/13/24	11:00
	11/13/24	18:31		11/13/24	18:31
	11/14/24	12:03	FedEx	11/14/24	12:3
			C. Mmuo	11/15/24	1011

Shipping Date / Carrier / Airbill Number
Shipping Date:

Received by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

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WG	Ground Water

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29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

						Analytical Test Method	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC						
	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024						46	47	8	9	9	29	7	5	10						
	Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
45	G6M-97-28X-FAL24	WG	11-12-24	1230	AF					X	X					G6M-97-28X	N1	100.00	105.00	1	
46	MW-3-FAL24	WG	11-12-24	1100	EA					X	X	X				MW-3	MS1	126.00	136.00	1	
47	MW-3-FAL24	WG	11-12-24	1100	EA					X	X	X				MW-3	N1	126.00	136.00	1	
48	MW-3-FAL24	WG	11-12-24	1100	EA					X	X	X				MW-3	SD1	126.00	136.00	1	
49	MW-7-FAL24	WG	11-12-24	1530	EA					X	X	X				MW-7	N1	6.58	135.00	1	
50	XSA-12-95X-FAL24	WG								X	X	X				XSA-12-95X	N1	120.00	130.00	1	
51	XSA-12-96X-FAL24	WG								X	X	X				XSA-12-96X	N1	120.00	130.00	1	
52	XSA-12-97X-FAL24	WG								X	X	X				XSA-12-97X	N1	120.00	130.00	1	
53	XSA-12-98X-FAL24	WG								X	X	X				XSA-12-98X	N1	60.00	70.00	1	
54	AOC50-RB-02-FAL24		11-8-24	1900	DC					X	X	X				—		—	—		
55	AOC50-RB-03-FAL24		11-11-24	1600	DC					X	X	X									

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/13/24	800		11/13/24	11:00
	11/13/24	18:31		11/13/24	18:31
	11/18/24	17:03	FedEx	11/14/24	17:35
				11/15/24	1011

Shipping Date / Carrier / Airbill Number
Shipping Date:

Received by Laboratory: *(Signature, Date, Time)* **& condition**

ENV.COC_Field
October 16, 2024

CHAIN-OF-CUSTODY RECORD

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Heather Levesque
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(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
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RSK175 (A) = Dissolved Gases
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Code	Matrix
WG	Ground Water

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5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
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Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						46	47	8	9	9	29	7	5	10						
56	AOC50-RB-04-Fal24		11-12-24	1220	CS				X	X	X									
57	Trip Blank	—	—	—	lab						X									
58																				
59																				
60																				
61																				
62																				
63																				
64																				
65																				
66																				

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/13/24	800		11/13/24	11:00
	11/13/24	1831		11/13/24	18:31
	11/14/24	1703		11/14/24	17:03
				11/15/24	1011

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WBS Code:	Ship to:	

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Equipr

680-258683 Chain of Custody

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
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10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: A2320B (A) 46	E353.2 (A) 47	RSK175 (A) 8	SW6010C/FLDFLT (B) 9	SW6020A/FLDFLT (B) 9	SW8260D - VOCs 29	SW9034 (A) 7	SW9056A - SO4 5	SW9060A - TOC 10	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	AOC50-DUP01-FAL24	WG							X	X	X				G6M-04-04X	FD1	94.00	104.00	1	
2	AOC50-DUP02-FAL24	WG	11-12-24	1120	DC	X	X	X	X	X	X	X	X	X	G6M-07-02X	FD1	22.50	27.50	1	
3	AOC50-DUP03-FAL24	WG				X	X	X	X	X	X	X	X	X	G6M-13-02X	FD1	115.00	125.00	1	
4	AOC50-DUP04-FAL24	WG	11-12-24	940	DC				X	X	X				G6M-95-20X	FD1	18.00	23.00	1	
5	G6M-02-01X-FAL24	WG	11-8-24	1320	DC	X	X	X	X	X	X	X	X	X	G6M-02-01X	N1	80.00	95.00	1	
6	G6M-02-04X-FAL24	WG	11-12-24	1420	AF				X	X	X				G6M-02-04X	N1	90.00	105.00	1	
7	G6M-02-06X-FAL24	WG	11-12-24	1530	CS				X	X	X				G6M-02-06X	N1	55.00	65.00	1	
8	G6M-02-07X-FAL24	WG	11-12-24	1400	CS				X	X	X				G6M-02-07X	N1	30.00	40.00	1	
9	G6M-02-08X-FAL24	WG							X	X	X				G6M-02-08X	N1	60.00	70.00	1	
10	G6M-02-11X-FAL24	WG							X	X	X				G6M-02-11X	N1	125.00	135.00	1	
11	G6M-02-12X-FAL24	WG	11-8-24	1200	CS				X	X	X				G6M-02-12X	N1	125.00	135.00	1	

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/13/24	800		11/13/24	11:00
	11/13/24	1831		11/13/24	18:31
	11/14/24	1703	FedEx	11/14/24	17:03
			C. Munn	11/15/24	1011

Shipping Date / Carrier / Airbill Number
Shipping Date:

Received by Laboratory: *(Signature, Date, Time)* **& condition**
0.2/0.2 0.6/0.6 0.3/0.3 1.3/1.3 0.3/0.3 0.8/0.8

ENV.COC_Field
October 16, 2024

CHAIN-OF-CUSTODY RECORD

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COC # AOC50-FAL24

US Army Corps of Engineers ®

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WG	Ground Water

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5	1x 125mL plastic, Cool < 6degC
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10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
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						Analytical Test Method	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC							
Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024							46	47	8	9	9	29	7	5	10							
	Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
12	G6M-02-13X-FAL24	WG	11-12-24	1550	AE					X	X	X				G6M-02-13X	N1	110.00	120.00	1	
13	G6M-03-07X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-03-07X	N1	80.00	90.00	1	
14	G6M-03-08X-FAL24	WG	11-8-24	1355	CS					X	X	X				G6M-03-08X	N1	125.00	140.00	1	
15	G6M-03-10X-FAL24	WG								X	X	X				G6M-03-10X	N1	120.00	135.00	1	
16	G6M-04-01X-FAL24	WG	11-8-24	1450	DC					X	X	X				G6M-04-01X	N1	82.00	92.00	1	
17	G6M-04-02X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-04-02X	N1	80.00	90.00	1	
18	G6M-04-03X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-04-03X	N1	85.00	95.00	1	
19	G6M-04-04X-FAL24	WG								X	X	X				G6M-04-04X	N1	94.00	104.00	1	
20	G6M-04-05X-FAL24	WG	11-8-24	1505	CS							X				G6M-04-05X	N1	100.00	110.00	1	
21	G6M-04-06X-FAL24	WG	11-11-24	1430	CS					X	X	X				G6M-04-06X	N1	95.00	136.00	1	
22	G6M-04-07X-FAL24	WG	11-11-24	1110	CS		X	X	X	X	X	X	X	X	X	G6M-04-07X	N1	120.00	130.00	1	

Relinquished by: *(Signature)*	Date	Time
	11/13/24	800
	11/13/24	1831
	11/13/24	17:03

Received by: *(Signature)*	Date	Time
	11/13/24	11:00
	11/13/24	18:31
FedEx	11/14/24	17:03
C. Munno	11/15/24	1011

Shipping Date / Carrier / Airbill Number
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ENV.COC_Field
October 16, 2024

CHAIN-OF-CUSTODY RECORD

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COC # AOC50-FAL24

US Army Corps of Engineers

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Project Number: 2312 - 00000001	POC: Ship to:	
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						Analytical Test Method	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC			Sample	Depth (ft bgs)			
	Sample ID	Matrix	Date	Time	Samp Init.		46	47	8	9	9	29	7	5	10		Location ID	Type	Top	Bottom	Cooler	Comments
23	G6M-04-09X-FAL24	WG	11-12-24	1025	AF		X	X	X	X	X	X	X	X	X		G6M-04-09X	N1	55.00	65.00	1	
24	G6M-04-10A-FAL24	WG	11-8-24	1010	EA		X	X	X	X	X	X	X	X	X		G6M-04-10A	MS1	30.00	40.00	1	
25	G6M-04-10A-FAL24	WG	11-8-24	1010	EA		X	X	X	X	X	X	X	X	X		G6M-04-10A	N1	30.00	40.00	1	
26	G6M-04-10A-FAL24	WG	11-8-24	1010	EA		X	X	X	X	X	X	X	X	X		G6M-04-10A	SD1	30.00	40.00	1	
27	G6M-04-10X-FAL24	WG										X					G6M-04-10X	N1	52.00	62.00	1	
28	G6M-04-11X-FAL24	WG								X	X	X					G6M-04-11X	N1	35.00	45.00	1	
29	G6M-04-13X-FAL24	WG	11-12-24	1330	DC							X					G6M-04-13X	N1	30.00	40.00	1	
30	G6M-04-14X-FAL24	WG	11-11-24	1255	EA/AF					X	X	X					G6M-04-14X	N1	80.00	90.00	1	
31	G6M-04-15X-FAL24	WG								X	X	X					G6M-04-15X	N1	70.00	80.00	1	
32	G6M-04-22X-FAL24	WG								X	X	X					G6M-04-22X	N1	74.00	84.00	1	
33	G6M-04-31X-FAL24	WG								X	X	X					G6M-04-31X	N1	68.00	78.00	1	

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/13/24	800		11/13/24	11:00
	11/13/24	18:31		11/13/24	18:31
	11/14/24	17:03	Fed Ex	11/14/24	17:03
			C. Mmm	11/15/24	1011

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COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024

						Analytical Test Method	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC			Sample	Depth (ft bgs)			
	Sample ID	Matrix	Date	Time	Samp Init.		46	47	8	9	9	29	7	5	10		Location ID	Type	Top	Bottom	Cooler	Comments
34	G6M-07-01X-FAL24	WG	11-8-24	1055	DC		X	X	X	X	X	X	X	X	X		G6M-07-01X	N1	78.00	98.00	1	
35	G6M-07-02X-FAL24	WG	11-12-24	1120	DC		X	X	X	X	X	X	X	X	X		G6M-07-02X	N1	22.50	27.50	1	
36	G6M-13-01X-FAL24	WG	11-12-24	1045	CS		X	X	X	X	X	X	X	X	X		G6M-13-01X	N1	125.00	135.00	1	
37	G6M-13-02X-FAL24	WG					X	X	X	X	X	X	X	X	X		G6M-13-02X	N1	115.00	125.00	1	
38	G6M-13-03X-FAL24	WG										X					G6M-13-03X	N1	80.00	90.00	1	
39	G6M-13-04X-FAL24	WG	11-11-24	1545	CS					X	X	X					G6M-13-04X	N1	125.00	135.00	1	
40	G6M-13-05X-FAL24	WG	11-11-24	1350	DC		X	X	X	X	X	X	X	X	X		G6M-13-05X	N1	45.00	55.00	1	
41	G6M-13-06X-FAL24	WG	11-11-24	1525	DC		X	X	X	X	X	X	X	X	X		G6M-13-06X	N1	50.00	60.00	1	
42	G6M-95-19X-FAL24	WG	11-12-24	1445	DC							X					G6M-95-19X	N1	48.00	58.00	1	
43	G6M-95-20X-FAL24	WG	11-12-24	940	DC					X	X	X					G6M-95-20X	N1	18.00	23.00	1	
44	G6M-97-05B-FAL24	WG	11-11-24	1525	EA/AF		X	X	X	X	X	X	X	X	X		G6M-97-05B	N1	130.00	135.00	1	

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/13/24	800		11/13/24	11:40
	11/13/24	18:31		11/13/24	18:31
	11/14/24	17:03	FedEx	11/14/24	17:53
			C. Mmuo	11/15/24	1011

Shipping Date / Carrier / Airbill Number
Shipping Date:

Received by Laboratory: *(Signature, Date, Time)* **& condition**

ENV.COC_Field
October 16, 2024

CHAIN-OF-CUSTODY RECORD

Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
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Equipment:

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5	1x 125mL plastic, Cool < 6degC
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8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
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10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: A2320B (A) 46	E353.2 (A) 47	RSK175 (A) 8	SW6010C/FLDFLT (B) 9	SW6020A/FLDFLT (B) 9	SW8260D - VOCs 29	SW9034 (A) 7	SW9056A - SO4 5	SW9060A - TOC 10	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
45	G6M-97-28X-FAL24	WG	11-12-24	1230	AF				X	X					G6M-97-28X	N1	100.00	105.00	1	
46	MW-3-FAL24	WG	11-12-24	1100	EA				X	X	X				MW-3	MS1	126.00	136.00	1	
47	MW-3-FAL24	WG	11-12-24	1100	EA				X	X	X				MW-3	N1	126.00	136.00	1	
48	MW-3-FAL24	WG	11-12-24	1100	EA				X	X	X				MW-3	SD1	126.00	136.00	1	
49	MW-7-FAL24	WG	11-12-24	1530	EA				X	X	X				MW-7	N1	6.58	135.00	1	
50	XSA-12-95X-FAL24	WG							X	X	X				XSA-12-95X	N1	120.00	130.00	1	
51	XSA-12-96X-FAL24	WG							X	X	X				XSA-12-96X	N1	120.00	130.00	1	
52	XSA-12-97X-FAL24	WG							X	X	X				XSA-12-97X	N1	120.00	130.00	1	
53	XSA-12-98X-FAL24	WG							X	X	X				XSA-12-98X	N1	60.00	70.00	1	
54	AOC50-RB-02-Fal24		11-8-24	1900	DC				X	X	X				—		—	—		
55	AOC50-RB-03-Fal24		11-11-24	1600	DC				X	X	X									

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/13/24	800		11/13/24	11:00
	11/13/24	18:31		11/13/24	18:31
	11/14/24	17:03	FedEx	11/14/24	17:35
				11/15/24	1011

Shipping Date / Carrier / Airbill Number
Shipping Date:

Received by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
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Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024

	Sample ID	Matrix	Date	Time	Samp Init.	A2320B (A) 46	E353.2 (A) 47	RSK175 (A) 8	SW6010C/FLDFLT (B) 9	SW6020A/FLDFLT (B) 9	SW8260D - VOCs 29	SW9034 (A) 7	SW9056A - SO4 5	SW9060A - TOC 10	Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
AOC50-RB-04-Fal24	56	AOC50-RB-04-Fal24		11-12-24	1220	CS				X	X	X							
	57	Trip Blank	—	—	—	lab						X							
	58																		
	59																		
	60																		
	61																		
	62																		
	63																		
	64																		
	65																		
	66																		

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/13/24	800		11/13/24	11:40
	11/13/24	1831		11/13/24	18:31
	11/14/24	1702	Fed Ex	11/14/24	17:02
			C. Munno	11/15/24	1011

Shipping Date / Carrier / Airbill Number
Shipping Date:

Received by Laboratory: *(Signature, Date, Time)* **& condition**

ENV.COC_Field
October 16, 2024

Login Sample Receipt Checklist

Client: Seres Engineering & Services LLC

Job Number: 680-258683-1

Login Number: 258683
List Number: 1
Creator: Munro, Caroline

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received extra samples not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Heather Levesque
Seres Engineering & Services LLC
669 Marina Drive
Suite B7
Charleston, South Carolina 29492

Generated 1/23/2025 1:03:09 PM Revision 1

JOB DESCRIPTION

Seres-Arcadis JV, LTM, AOC 50, Fall 2024

JOB NUMBER

680-258802-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

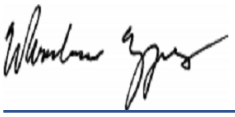
my EOL

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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Revision 1

Authorized for release by
Woodrow Eggers, EDD Analyst (IT)
woodrow.eggers@et.eurofinsus.com
Designee for
Jerry Lanier, Project Manager I
Jerry.Lanier@et.eurofinsus.com
(912)250-0281

Definitions/Glossary

Client: Seres Engineering & Services LLC
Job ID: 680-258802-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

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.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Seres Engineering & Services LLC
Job ID: 680-258802-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-258802-1	AOC50-DUP01-FAL24	Water	11/14/24 13:20	11/19/24 09:56
680-258802-2	AOC50-DUP03-FAL24	Water	11/14/24 11:15	11/19/24 09:56
680-258802-3	G6M-02-08X-FAL24	Water	11/13/24 15:15	11/19/24 09:56
680-258802-4	G6M-03-07X-FAL24	Water	11/14/24 16:00	11/19/24 09:56
680-258802-5	G6M-03-10X-FAL24	Water	11/13/24 15:00	11/19/24 09:56
680-258802-6	G6M-04-03X-FAL24	Water	11/14/24 10:40	11/19/24 09:56
680-258802-7	G6M-04-04X-FAL24	Water	11/14/24 13:20	11/19/24 09:56
680-258802-8	G6M-04-11X-FAL24	Water	11/14/24 15:25	11/19/24 09:56
680-258802-9	G6M-13-02X-FAL24	Water	11/14/24 11:15	11/19/24 09:56
680-258802-10	XSA-12-95X-FAL24	Water	11/15/24 10:40	11/19/24 09:56
680-258802-11	XSA-12-96X-FAL24	Water	11/13/24 15:10	11/19/24 09:56
680-258802-12	XSA-12-98X-FAL24	Water	11/15/24 11:45	11/19/24 09:56
680-258802-13	AOC50-RB05-FAL24	Water	11/13/24 16:00	11/19/24 09:56
680-258802-14	AOC50-RB06-FAL24	Water	11/14/24 11:10	11/19/24 09:56
680-258802-15	AOC50-Trip Blank	Water	11/14/24 00:00	11/19/24 09:56
680-258802-16	AOC50-RB-07-FAL24	Water	11/15/24 11:30	11/19/24 09:56

Job Narrative
680-258802-1

REVISION

The report being provided is a revision of the original report sent on 12/11/2024. The report (revision 1) is being revised due to 8260 leach blank incorrectly associating with this job..

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 11/19/2024 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 1.6°C and 2.3°C.

GC/MS VOA
Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-866305 recovered above the upper control limit for Chloroform and Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-866305 recovered outside acceptance criteria, low biased, for Bromomethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D_DOD5: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-866305 recovered outside control limits for the following analytes: Chloroethane and Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The initial calibration verification (ICV) analyzed in batch 680-863946 was outside method criteria for the following analyte(s): Vinyl acetate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-866541 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D_DOD5: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-866541 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane, Dichlorodifluoromethane, Hexachlorobutadiene and Naphthalene.

Method 8260D_DOD5: The method blank for 680-866541 contained n-Butylbenzene above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

Method 8260D_DOD5: The continuing calibration verification closing (CCVC) associated with batch 680-866541 recovered outside acceptance criteria, low biased, for Vinyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D_DOD5: The initial calibration verification (ICV) analyzed in batch 680-866044 was outside method criteria for the following analyte(s): Vinyl acetate. As indicated in the reference method, sample analysis may proceed; however, any detection for

the affected analyte(s) is considered estimated.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-866678 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-866678 recovered outside control limits for the following analyte: Vinyl acetate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The closing continuing calibration verification (CCVC) associated with batch 680-866678 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 680-866681 was outside criteria for the following analyte(s): 1,1,2-Trichloroethane. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method 8260D_DOD5: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-866681 recovered outside control limits for the following analyte: 1,2,3-Trichlorobenzene.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-866666 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 680-866666 recovered outside acceptance criteria, low biased, for Bromomethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D_DOD5: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-866666 recovered outside control limits for the following analytes: Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D_DOD5: The minimum response factor (RF) criteria for the CCVC analyzed in batch 680-866681 was outside criteria for the following analyte(s): 1,1,2-Trichloroethane. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method 8260D_DOD5: The initial calibration verification (ICV) analyzed in batch 680-866239 was outside method criteria for the following analyte(s): Vinyl acetate. 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 VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
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.

General Chemistry
Method 9034: Certified Reference Materials (CRM) and Standard Reference Materials (SRM) are not available for potassium iodate. Standards from an authoritative source have been used for calibration. The initial calibrations have been verified with a standard from an authoritative, independent, second source.

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

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: AOC50-DUP01-FAL24
Date Collected: 11/14/24 13:20
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/28/24 13:21	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 13:21	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/28/24 13:21	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 13:21	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/28/24 13:21	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/28/24 13:21	1
Bromomethane	10	U	20	10	3.7	ug/L		11/28/24 13:21	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/28/24 13:21	1
n-Butylbenzene	2.0	U M	2.5	2.0	0.52	ug/L		11/28/24 13:21	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/28/24 13:21	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 13:21	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 13:21	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/28/24 13:21	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/28/24 13:21	1
Chloroethane	10	U	20	10	4.6	ug/L		11/28/24 13:21	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 13:21	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/28/24 13:21	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/28/24 13:21	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/28/24 13:21	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/28/24 13:21	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/28/24 13:21	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:21	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 13:21	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 13:21	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 13:21	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 13:21	1
Dichlorodifluoromethane	1.0	U M	2.0	1.0	0.36	ug/L		11/28/24 13:21	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:21	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/28/24 13:21	1
cis-1,2-Dichloroethene	1.0	U M	2.0	1.0	0.25	ug/L		11/28/24 13:21	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 13:21	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/28/24 13:21	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:21	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/28/24 13:21	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 13:21	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/28/24 13:21	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/28/24 13:21	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 13:21	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/28/24 13:21	1
Ethylbenzene	0.50	U M	1.0	0.50	0.20	ug/L		11/28/24 13:21	1
Hexachlorobutadiene	1.0	U M	5.0	1.0	0.22	ug/L		11/28/24 13:21	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/28/24 13:21	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 13:21	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/28/24 13:21	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/28/24 13:21	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/28/24 13:21	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 13:21	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/28/24 13:21	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/28/24 13:21	1

Client Sample ID: AOC50-DUP01-FAL24
Lab Sample ID: 680-258802-1

Date Collected: 11/14/24 13:20
Matrix: Water
Date Received: 11/19/24 09:56

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 13:21	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 13:21	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/28/24 13:21	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/28/24 13:21	1
Toluene	**0.69**	**J M**	2.0	1.0	0.25	ug/L		11/28/24 13:21	1
1,2,3-Trichlorobenzene	2.0	U Q	5.0	2.0	0.81	ug/L		11/28/24 13:21	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/28/24 13:21	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/28/24 13:21	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/28/24 13:21	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/28/24 13:21	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:21	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/28/24 13:21	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 13:21	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/28/24 13:21	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/28/24 13:21	1
Vinyl chloride	1.0	U M	2.0	1.0	0.40	ug/L		11/28/24 13:21	1
o-Xylene	1.0	U M	2.0	1.0	0.26	ug/L		11/28/24 13:21	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/28/24 13:21	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/28/24 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*89 - 112*		*11/28/24 13:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*81 - 118*		*11/28/24 13:21*	*1*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*		*11/28/24 13:21*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 119*		*11/28/24 13:21*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**75000**		100	50	20	ug/L		11/21/24 18:57	1
Manganese	**8600**		10	5.0	1.3	ug/L		11/21/24 18:57	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**500**		5.0	3.0	0.86	ug/L		11/20/24 18:18	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: AOC50-DUP03-FAL24
Date Collected: 11/14/24 11:15
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/27/24 13:47	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 13:47	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/27/24 13:47	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 13:47	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 13:47	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/27/24 13:47	1
Bromomethane	10	U	20	10	3.7	ug/L		11/27/24 13:47	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/27/24 13:47	1
n-Butylbenzene	2.0	U M	2.5	2.0	0.52	ug/L		11/27/24 13:47	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/27/24 13:47	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 13:47	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 13:47	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/27/24 13:47	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/27/24 13:47	1
Chloroethane	10	U	20	10	4.6	ug/L		11/27/24 13:47	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 13:47	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/27/24 13:47	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/27/24 13:47	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 13:47	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/27/24 13:47	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/28/24 13:35	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 13:47	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 13:47	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 13:47	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 13:47	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 13:47	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 13:35	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 13:47	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/27/24 13:47	1
cis-1,2-Dichloroethene	**2.9**	**M**	2.0	1.0	0.25	ug/L		11/27/24 13:47	1
trans-1,2-Dichloroethene	1.0	U M	2.0	1.0	0.34	ug/L		11/27/24 13:47	1
1,2-Dichloroethene, Total	**2.9**		2.0	1.0	0.37	ug/L		11/27/24 13:47	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 13:47	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/27/24 13:47	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 13:47	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 13:47	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 13:47	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 13:47	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/27/24 13:47	1
Ethylbenzene	0.50	U M	1.0	0.50	0.20	ug/L		11/27/24 13:47	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/28/24 13:35	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/27/24 13:47	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 13:47	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/27/24 13:47	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/27/24 13:47	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/27/24 13:47	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/27/24 13:47	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/28/24 13:35	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 13:47	1

Client Sample ID: AOC50-DUP03-FAL24
Lab Sample ID: 680-258802-2

Date Collected: 11/14/24 11:15
Matrix: Water
Date Received: 11/19/24 09:56

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 13:47	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 13:47	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 13:47	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 13:47	1
Toluene	**0.68**	**J M**	2.0	1.0	0.25	ug/L		11/27/24 13:47	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 13:35	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/28/24 13:35	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/27/24 13:47	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/27/24 13:47	1
Trichloroethene	**1.1**	**M**	1.0	0.50	0.20	ug/L		11/27/24 13:47	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 13:47	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/27/24 13:47	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 13:47	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 13:47	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/28/24 13:35	1
Vinyl chloride	1.0	U M	2.0	1.0	0.40	ug/L		11/27/24 13:47	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 13:47	1
m-Xylene & p-Xylene	1.0	U M	2.0	1.0	0.49	ug/L		11/27/24 13:47	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*89 - 112*		*11/27/24 13:47*	*1*
Toluene-d8 (Surr)	*100*		*89 - 112*		*11/28/24 13:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*11/27/24 13:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*81 - 118*		*11/28/24 13:35*	*1*
4-Bromofluorobenzene (Surr)	*97*		*85 - 114*		*11/27/24 13:47*	*1*
4-Bromofluorobenzene (Surr)	*112*		*85 - 114*		*11/28/24 13:35*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 119*		*11/27/24 13:47*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*11/28/24 13:35*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**0.64**	**J**	1.1	0.76	0.30	ug/L		11/26/24 16:30	1
Ethylene	**1.4**		1.0	0.71	0.31	ug/L		11/26/24 16:30	1
Methane	**2000**		1.2	1.2	0.57	ug/L		11/26/24 16:30	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	**6.6**		1.5	1.0	0.40	mg/L		12/05/24 21:01	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**2800**		100	50	20	ug/L		11/21/24 17:42	1
Manganese	**14000**	**J1**	10	5.0	1.3	ug/L		11/21/24 17:42	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**19**	**J1**	5.0	3.0	0.86	ug/L		11/20/24 17:34	1

Client: Seres Engineering & Services LLC
Job ID: 680-258802-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: AOC50-DUP03-FAL24
Lab Sample ID: 680-258802-2
Date Collected: 11/14/24 11:15
Matrix: Water
Date Received: 11/19/24 09:56

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**89**		5.5	5.0	2.2	mg/L		11/20/24 23:58	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	0.025	U	0.10	0.025	0.010	mg/L		11/26/24 15:52	1
Sulfide (SW846 9034)	1.7	U	2.5	1.7	0.83	mg/L		11/20/24 08:56	1
Total Organic Carbon (SW846 9060A)	**3.6**		1.0	1.0	0.50	mg/L		11/27/24 07:29	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: G6M-02-08X-FAL24
Date Collected: 11/13/24 15:15
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/26/24 18:57	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 18:57	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/26/24 18:57	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 18:57	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 18:57	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/26/24 18:57	1
Bromomethane	10	U Q	20	10	3.7	ug/L		11/26/24 18:57	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/26/24 18:57	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/26/24 18:57	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/26/24 18:57	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 18:57	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 18:57	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/26/24 18:57	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/26/24 18:57	1
Chloroethane	10	U Q	20	10	4.6	ug/L		11/26/24 18:57	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 18:57	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/26/24 18:57	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/26/24 18:57	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 18:57	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/26/24 18:57	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/26/24 18:57	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 18:57	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 18:57	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 18:57	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 18:57	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 18:57	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 18:57	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 18:57	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 18:57	1
cis-1,2-Dichloroethene	**0.84**	**J**	2.0	1.0	0.25	ug/L		11/26/24 18:57	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 18:57	1
1,2-Dichloroethene, Total	**0.84**	**J**	2.0	1.0	0.37	ug/L		11/26/24 18:57	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 18:57	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/26/24 18:57	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 18:57	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 18:57	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 18:57	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 18:57	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/26/24 18:57	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 18:57	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/26/24 18:57	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/26/24 18:57	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 18:57	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/26/24 18:57	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/26/24 18:57	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/26/24 18:57	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 18:57	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/26/24 18:57	1
N-Propylbenzene	1.0	U M	2.0	1.0	0.41	ug/L		11/26/24 18:57	1

Client Sample ID: G6M-02-08X-FAL24
Lab Sample ID: 680-258802-3

Date Collected: 11/13/24 15:15
Matrix: Water
Date Received: 11/19/24 09:56

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 18:57	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 18:57	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 18:57	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 18:57	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 18:57	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 18:57	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/26/24 18:57	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/26/24 18:57	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/26/24 18:57	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 18:57	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 18:57	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/26/24 18:57	1
1,2,4-Trimethylbenzene	**0.50**	**J**	2.0	1.0	0.43	ug/L		11/26/24 18:57	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 18:57	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/26/24 18:57	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 18:57	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 18:57	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 18:57	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*89 - 112*		*11/26/24 18:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*81 - 118*		*11/26/24 18:57*	*1*
4-Bromofluorobenzene (Surr)	*112*		*85 - 114*		*11/26/24 18:57*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*11/26/24 18:57*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**6.7**		1.1	0.76	0.30	ug/L		11/26/24 16:40	1
Ethylene	0.71	U	1.0	0.71	0.31	ug/L		11/26/24 16:40	1
Methane	**28000**		1.2	1.2	0.57	ug/L		11/26/24 16:40	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	1.0	0.40	mg/L		12/05/24 21:09	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**19000**		100	50	20	ug/L		11/21/24 18:02	1
Manganese	**510**		10	5.0	1.3	ug/L		11/21/24 18:02	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**170**		5.0	3.0	0.86	ug/L		11/20/24 17:48	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**37**		5.5	5.0	2.2	mg/L		11/21/24 00:07	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	**0.042**	**J**	0.10	0.025	0.010	mg/L		11/26/24 15:50	1

Client: Seres Engineering & Services LLC
Job ID: 680-258802-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-02-08X-FAL24
Lab Sample ID: 680-258802-3
Date Collected: 11/13/24 15:15
Matrix: Water
Date Received: 11/19/24 09:56

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	1.8	J	2.7	1.8	0.89	mg/L		11/20/24 08:56	1
Total Organic Carbon (SW846 9060A)	10		1.0	1.0	0.50	mg/L		11/27/24 08:02	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: G6M-03-07X-FAL24
Date Collected: 11/14/24 16:00
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/28/24 13:43	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 13:43	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/28/24 13:43	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 13:43	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/28/24 13:43	1
Bromoform	2.0	U M	2.5	2.0	0.59	ug/L		11/28/24 13:43	1
Bromomethane	10	U	20	10	3.7	ug/L		11/28/24 13:43	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/28/24 13:43	1
n-Butylbenzene	2.0	U M	2.5	2.0	0.52	ug/L		11/28/24 13:43	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/28/24 13:43	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 13:43	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 13:43	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/28/24 13:43	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/28/24 13:43	1
Chloroethane	10	U	20	10	4.6	ug/L		11/28/24 13:43	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 13:43	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/28/24 13:43	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/28/24 13:43	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/28/24 13:43	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/28/24 13:43	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/28/24 13:43	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:43	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 13:43	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 13:43	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 13:43	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 13:43	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 13:43	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:43	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/28/24 13:43	1
cis-1,2-Dichloroethene	**0.39**	**J**	2.0	1.0	0.25	ug/L		11/28/24 13:43	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 13:43	1
1,2-Dichloroethene, Total	**0.39**	**J**	2.0	1.0	0.37	ug/L		11/28/24 13:43	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:43	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/28/24 13:43	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 13:43	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/28/24 13:43	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/28/24 13:43	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 13:43	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/28/24 13:43	1
Ethylbenzene	**0.32**	**J**	1.0	0.50	0.20	ug/L		11/28/24 13:43	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/28/24 13:43	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/28/24 13:43	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 13:43	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/28/24 13:43	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/28/24 13:43	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/28/24 13:43	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 13:43	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/28/24 13:43	1
N-Propylbenzene	1.0	U M	2.0	1.0	0.41	ug/L		11/28/24 13:43	1

Client Sample ID: G6M-03-07X-FAL24
Lab Sample ID: 680-258802-4

Date Collected: 11/14/24 16:00
Matrix: Water
Date Received: 11/19/24 09:56

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 13:43	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 13:43	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/28/24 13:43	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/28/24 13:43	1
Toluene	**0.73**	**J**	2.0	1.0	0.25	ug/L		11/28/24 13:43	1
1,2,3-Trichlorobenzene	2.0	U M Q	5.0	2.0	0.81	ug/L		11/28/24 13:43	1
1,2,4-Trichlorobenzene	2.0	U M	5.0	2.0	0.53	ug/L		11/28/24 13:43	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/28/24 13:43	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/28/24 13:43	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/28/24 13:43	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:43	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/28/24 13:43	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 13:43	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/28/24 13:43	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/28/24 13:43	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/28/24 13:43	1
o-Xylene	1.0	U M	2.0	1.0	0.26	ug/L		11/28/24 13:43	1
m-Xylene & p-Xylene	1.0	U M	2.0	1.0	0.49	ug/L		11/28/24 13:43	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/28/24 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*89 - 112*		*11/28/24 13:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*81 - 118*		*11/28/24 13:43*	*1*
4-Bromofluorobenzene (Surr)	*95*		*85 - 114*		*11/28/24 13:43*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 119*		*11/28/24 13:43*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**5.3**		1.1	0.76	0.30	ug/L		11/26/24 16:50	1
Ethylene	0.71	U	1.0	0.71	0.31	ug/L		11/26/24 16:50	1
Methane	**23000**		1.2	1.2	0.57	ug/L		11/26/24 16:50	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	1.0	0.40	mg/L		12/05/24 21:17	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**92000**		100	50	20	ug/L		11/21/24 17:56	1
Manganese	**2500**		10	5.0	1.3	ug/L		11/21/24 17:56	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**520**		5.0	3.0	0.86	ug/L		11/20/24 17:44	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**140**		5.5	5.0	2.2	mg/L		11/21/24 00:16	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	**0.027**	**J**	0.10	0.025	0.010	mg/L		11/26/24 15:48	1

Client: Seres Engineering & Services LLC
Job ID: 680-258802-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-03-07X-FAL24
Lab Sample ID: 680-258802-4
Date Collected: 11/14/24 16:00
Matrix: Water
Date Received: 11/19/24 09:56

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	1.7	U	2.6	1.7	0.86	mg/L		11/20/24 08:56	1
Total Organic Carbon (SW846 9060A)	**14**		1.0	1.0	0.50	mg/L		11/27/24 08:19	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: G6M-03-10X-FAL24

Date Collected: 11/13/24 15:00
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-5

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/26/24 19:20	1
Benzene	**0.32**	**J**	2.0	1.0	0.27	ug/L		11/26/24 19:20	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/26/24 19:20	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 19:20	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 19:20	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/26/24 19:20	1
Bromomethane	10	U Q	20	10	3.7	ug/L		11/26/24 19:20	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/26/24 19:20	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/26/24 19:20	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/26/24 19:20	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 19:20	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 19:20	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/26/24 19:20	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/26/24 19:20	1
Chloroethane	10	U Q	20	10	4.6	ug/L		11/26/24 19:20	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 19:20	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/26/24 19:20	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/26/24 19:20	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 19:20	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/26/24 19:20	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/26/24 19:20	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 19:20	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 19:20	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 19:20	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 19:20	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 19:20	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 19:20	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 19:20	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/26/24 19:20	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 19:20	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 19:20	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/26/24 19:20	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 19:20	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/26/24 19:20	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 19:20	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 19:20	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 19:20	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 19:20	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/26/24 19:20	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 19:20	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/26/24 19:20	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/26/24 19:20	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 19:20	1
4-Isopropyltoluene	1.0	U M	2.0	1.0	0.44	ug/L		11/26/24 19:20	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/26/24 19:20	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/26/24 19:20	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 19:20	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/26/24 19:20	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 19:20	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: G6M-03-10X-FAL24
Date Collected: 11/13/24 15:00
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 19:20	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 19:20	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 19:20	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 19:20	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 19:20	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 19:20	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/26/24 19:20	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/26/24 19:20	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/26/24 19:20	1
Trichloroethene	**0.23**	**J**	1.0	0.50	0.20	ug/L		11/26/24 19:20	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 19:20	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/26/24 19:20	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 19:20	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 19:20	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/26/24 19:20	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 19:20	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 19:20	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 19:20	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*89 - 112*		*11/26/24 19:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*81 - 118*		*11/26/24 19:20*	*1*
4-Bromofluorobenzene (Surr)	*112*		*85 - 114*		*11/26/24 19:20*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*11/26/24 19:20*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**33000**		100	50	20	ug/L		11/21/24 17:59	1
Manganese	**800**		10	5.0	1.3	ug/L		11/21/24 17:59	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**230**		5.0	3.0	0.86	ug/L		11/20/24 17:46	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: G6M-04-03X-FAL24
Date Collected: 11/14/24 10:40
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/27/24 14:30	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 14:30	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/27/24 14:30	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 14:30	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 14:30	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/27/24 14:30	1
Bromomethane	10	U	20	10	3.7	ug/L		11/27/24 14:30	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/27/24 14:30	1
n-Butylbenzene	2.0	U M	2.5	2.0	0.52	ug/L		11/27/24 14:30	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/27/24 14:30	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 14:30	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 14:30	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/27/24 14:30	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/27/24 14:30	1
Chloroethane	10	U	20	10	4.6	ug/L		11/27/24 14:30	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 14:30	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/27/24 14:30	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/27/24 14:30	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 14:30	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/27/24 14:30	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/28/24 13:58	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 14:30	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 14:30	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 14:30	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 14:30	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 14:30	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 13:58	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 14:30	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/27/24 14:30	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 14:30	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 14:30	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/27/24 14:30	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 14:30	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/27/24 14:30	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 14:30	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 14:30	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 14:30	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 14:30	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/27/24 14:30	1
Ethylbenzene	0.50	U M	1.0	0.50	0.20	ug/L		11/27/24 14:30	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/28/24 13:58	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/27/24 14:30	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 14:30	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/27/24 14:30	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/27/24 14:30	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/27/24 14:30	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/27/24 14:30	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/28/24 13:58	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 14:30	1

Client Sample ID: G6M-04-03X-FAL24
Lab Sample ID: 680-258802-6

Date Collected: 11/14/24 10:40
Matrix: Water
Date Received: 11/19/24 09:56

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 14:30	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 14:30	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 14:30	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 14:30	1
Toluene	**0.56**	**J**	2.0	1.0	0.25	ug/L		11/27/24 14:30	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 13:58	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/28/24 13:58	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/27/24 14:30	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/27/24 14:30	1
Trichloroethene	0.50	U M	1.0	0.50	0.20	ug/L		11/27/24 14:30	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 14:30	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/27/24 14:30	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 14:30	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 14:30	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/28/24 13:58	1
Vinyl chloride	1.0	U M	2.0	1.0	0.40	ug/L		11/27/24 14:30	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 14:30	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 14:30	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*89 - 112*		*11/27/24 14:30*	*1*
Toluene-d8 (Surr)	*99*		*89 - 112*		*11/28/24 13:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*11/27/24 14:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*81 - 118*		*11/28/24 13:58*	*1*
4-Bromofluorobenzene (Surr)	*99*		*85 - 114*		*11/27/24 14:30*	*1*
4-Bromofluorobenzene (Surr)	*114*		*85 - 114*		*11/28/24 13:58*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 119*		*11/27/24 14:30*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*11/28/24 13:58*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**4.0**		1.1	0.76	0.30	ug/L		11/26/24 16:59	1
Ethylene	**4.9**		1.0	0.71	0.31	ug/L		11/26/24 16:59	1
Methane	**13000**		1.2	1.2	0.57	ug/L		11/26/24 16:59	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	1.0	0.40	mg/L		12/05/24 21:26	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**15000**		100	50	20	ug/L		11/21/24 18:10	1
Manganese	**1100**		10	5.0	1.3	ug/L		11/21/24 18:10	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**300**		5.0	3.0	0.86	ug/L		11/20/24 17:54	1

Client: Seres Engineering & Services LLC
Job ID: 680-258802-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-04-03X-FAL24
Lab Sample ID: 680-258802-6
Date Collected: 11/14/24 10:40
Matrix: Water
Date Received: 11/19/24 09:56

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	130		5.5	5.0	2.2	mg/L		11/21/24 01:07	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	0.028	J	0.10	0.025	0.010	mg/L		11/26/24 15:54	1
Sulfide (SW846 9034)	1.7	U	2.6	1.7	0.86	mg/L		11/20/24 08:56	1
Total Organic Carbon (SW846 9060A)	5.5		1.0	1.0	0.50	mg/L		11/27/24 08:38	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: G6M-04-04X-FAL24
Date Collected: 11/14/24 13:20
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/27/24 14:52	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 14:52	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/27/24 14:52	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 14:52	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 14:52	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/27/24 14:52	1
Bromomethane	10	U	20	10	3.7	ug/L		11/27/24 14:52	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/27/24 14:52	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/27/24 14:52	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/27/24 14:52	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 14:52	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 14:52	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/27/24 14:52	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/27/24 14:52	1
Chloroethane	10	U	20	10	4.6	ug/L		11/27/24 14:52	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 14:52	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/27/24 14:52	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/27/24 14:52	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 14:52	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/27/24 14:52	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/28/24 14:20	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 14:52	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 14:52	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 14:52	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 14:52	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 14:52	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 14:20	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 14:52	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/27/24 14:52	1
cis-1,2-Dichloroethene	**0.26**	**J M**	2.0	1.0	0.25	ug/L		11/27/24 14:52	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 14:52	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/27/24 14:52	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 14:52	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/27/24 14:52	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 14:52	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 14:52	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 14:52	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 14:52	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/27/24 14:52	1
Ethylbenzene	0.50	U M	1.0	0.50	0.20	ug/L		11/27/24 14:52	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/28/24 14:20	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/27/24 14:52	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 14:52	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/27/24 14:52	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/27/24 14:52	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/27/24 14:52	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/27/24 14:52	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/28/24 14:20	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 14:52	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: G6M-04-04X-FAL24
Date Collected: 11/14/24 13:20
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 14:52	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 14:52	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 14:52	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 14:52	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 14:52	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 14:20	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/28/24 14:20	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/27/24 14:52	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/27/24 14:52	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/27/24 14:52	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 14:52	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/27/24 14:52	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 14:52	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 14:52	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/28/24 14:20	1
Vinyl chloride	1.0	U M	2.0	1.0	0.40	ug/L		11/27/24 14:52	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 14:52	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 14:52	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*89 - 112*		*11/27/24 14:52*	*1*
Toluene-d8 (Surr)	*99*		*89 - 112*		*11/28/24 14:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*		*11/27/24 14:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*81 - 118*		*11/28/24 14:20*	*1*
4-Bromofluorobenzene (Surr)	*99*		*85 - 114*		*11/27/24 14:52*	*1*
4-Bromofluorobenzene (Surr)	*113*		*85 - 114*		*11/28/24 14:20*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 119*		*11/27/24 14:52*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*11/28/24 14:20*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**78000**		100	50	20	ug/L		11/21/24 18:13	1
Manganese	**9000**		10	5.0	1.3	ug/L		11/21/24 18:13	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**520**		5.0	3.0	0.86	ug/L		11/20/24 17:56	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: G6M-04-11X-FAL24
Date Collected: 11/14/24 15:25
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/27/24 15:13	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 15:13	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/27/24 15:13	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 15:13	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 15:13	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/27/24 15:13	1
Bromomethane	10	U	20	10	3.7	ug/L		11/27/24 15:13	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/27/24 15:13	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/27/24 15:13	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/27/24 15:13	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 15:13	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 15:13	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/27/24 15:13	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/27/24 15:13	1
Chloroethane	10	U	20	10	4.6	ug/L		11/27/24 15:13	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 15:13	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/27/24 15:13	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/27/24 15:13	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 15:13	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/27/24 15:13	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/28/24 14:43	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 15:13	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 15:13	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 15:13	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 15:13	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 15:13	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 14:43	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 15:13	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/27/24 15:13	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 15:13	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 15:13	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/27/24 15:13	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 15:13	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/27/24 15:13	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 15:13	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 15:13	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 15:13	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 15:13	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/27/24 15:13	1
Ethylbenzene	0.50	U M	1.0	0.50	0.20	ug/L		11/27/24 15:13	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/28/24 14:43	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/27/24 15:13	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 15:13	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/27/24 15:13	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/27/24 15:13	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/27/24 15:13	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/27/24 15:13	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/28/24 14:43	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 15:13	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: G6M-04-11X-FAL24
Date Collected: 11/14/24 15:25
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 15:13	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 15:13	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 15:13	1
Tetrachloroethene	1.0	U M	2.0	1.0	0.35	ug/L		11/27/24 15:13	1
Toluene	**0.69**	**J M**	2.0	1.0	0.25	ug/L		11/27/24 15:13	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 14:43	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/28/24 14:43	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/27/24 15:13	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/27/24 15:13	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/27/24 15:13	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 15:13	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/27/24 15:13	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 15:13	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 15:13	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/28/24 14:43	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 15:13	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 15:13	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 15:13	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*89 - 112*		*11/27/24 15:13*	*1*
Toluene-d8 (Surr)	*100*		*89 - 112*		*11/28/24 14:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*		*11/27/24 15:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*81 - 118*		*11/28/24 14:43*	*1*
4-Bromofluorobenzene (Surr)	*97*		*85 - 114*		*11/27/24 15:13*	*1*
4-Bromofluorobenzene (Surr)	*113*		*85 - 114*		*11/28/24 14:43*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*11/27/24 15:13*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*11/28/24 14:43*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/21/24 18:16	1
Manganese	5.0	U	10	5.0	1.3	ug/L		11/21/24 18:16	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		11/20/24 17:58	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: G6M-13-02X-FAL24
Date Collected: 11/14/24 11:15
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/28/24 14:04	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 14:04	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/28/24 14:04	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 14:04	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/28/24 14:04	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/28/24 14:04	1
Bromomethane	10	U	20	10	3.7	ug/L		11/28/24 14:04	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/28/24 14:04	1
n-Butylbenzene	2.0	U M	2.5	2.0	0.52	ug/L		11/28/24 14:04	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/28/24 14:04	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 14:04	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 14:04	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/28/24 14:04	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/28/24 14:04	1
Chloroethane	10	U	20	10	4.6	ug/L		11/28/24 14:04	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 14:04	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/28/24 14:04	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/28/24 14:04	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/28/24 14:04	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/28/24 14:04	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/28/24 14:04	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 14:04	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 14:04	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 14:04	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 14:04	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 14:04	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 14:04	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 14:04	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/28/24 14:04	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/28/24 14:04	1
trans-1,2-Dichloroethene	**0.52**	**J**	2.0	1.0	0.34	ug/L		11/28/24 14:04	1
1,2-Dichloroethene, Total	**0.52**	**J**	2.0	1.0	0.37	ug/L		11/28/24 14:04	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 14:04	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/28/24 14:04	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 14:04	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/28/24 14:04	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/28/24 14:04	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 14:04	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/28/24 14:04	1
Ethylbenzene	0.50	U M	1.0	0.50	0.20	ug/L		11/28/24 14:04	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/28/24 14:04	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/28/24 14:04	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 14:04	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/28/24 14:04	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/28/24 14:04	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/28/24 14:04	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 14:04	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/28/24 14:04	1
N-Propylbenzene	1.0	U M	2.0	1.0	0.41	ug/L		11/28/24 14:04	1

Client Sample ID: G6M-13-02X-FAL24
Lab Sample ID: 680-258802-9

Date Collected: 11/14/24 11:15
Matrix: Water
Date Received: 11/19/24 09:56

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 14:04	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 14:04	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/28/24 14:04	1
Tetrachloroethene	1.0	U M	2.0	1.0	0.35	ug/L		11/28/24 14:04	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/28/24 14:04	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 14:04	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/28/24 14:04	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/28/24 14:04	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/28/24 14:04	1
Trichloroethene	**0.99**	**J**	1.0	0.50	0.20	ug/L		11/28/24 14:04	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 14:04	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/28/24 14:04	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 14:04	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/28/24 14:04	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/28/24 14:04	1
Vinyl chloride	1.0	U M	2.0	1.0	0.40	ug/L		11/28/24 14:04	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 14:04	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/28/24 14:04	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/28/24 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*89 - 112*		*11/28/24 14:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*		*11/28/24 14:04*	*1*
4-Bromofluorobenzene (Surr)	*99*		*85 - 114*		*11/28/24 14:04*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*11/28/24 14:04*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	**0.75**	**J**	1.1	0.76	0.30	ug/L		11/26/24 17:09	1
Ethylene	**1.6**		1.0	0.71	0.31	ug/L		11/26/24 17:09	1
Methane	**2200**		1.2	1.2	0.57	ug/L		11/26/24 17:09	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	**6.8**		1.5	1.0	0.40	mg/L		12/05/24 21:34	1

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**2800**		100	50	20	ug/L		11/21/24 18:19	1
Manganese	**15000**		10	5.0	1.3	ug/L		11/21/24 18:19	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**20**		5.0	3.0	0.86	ug/L		11/20/24 18:00	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	**91**		5.5	5.0	2.2	mg/L		11/21/24 00:47	1
Nitrate Nitrite as N (MCAWW 353.2-1993 R2.0)	0.025	U	0.10	0.025	0.010	mg/L		11/26/24 15:54	1

Client: Seres Engineering & Services LLC
Job ID: 680-258802-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-13-02X-FAL24
Lab Sample ID: 680-258802-9
Date Collected: 11/14/24 11:15
Matrix: Water
Date Received: 11/19/24 09:56

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	1.7	U	2.5	1.7	0.83	mg/L		11/20/24 08:56	1
Total Organic Carbon (SW846 9060A)	**3.9**		1.0	1.0	0.50	mg/L		11/27/24 08:56	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: XSA-12-95X-FAL24
Date Collected: 11/15/24 10:40
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/27/24 15:56	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 15:56	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/27/24 15:56	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 15:56	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 15:56	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/27/24 15:56	1
Bromomethane	10	U	20	10	3.7	ug/L		11/27/24 15:56	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/27/24 15:56	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/27/24 15:56	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/27/24 15:56	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 15:56	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 15:56	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/27/24 15:56	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/27/24 15:56	1
Chloroethane	10	U	20	10	4.6	ug/L		11/27/24 15:56	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 15:56	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/27/24 15:56	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/27/24 15:56	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 15:56	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/27/24 15:56	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/28/24 13:48	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 15:56	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 15:56	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 15:56	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 15:56	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 15:56	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 13:48	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 15:56	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/27/24 15:56	1
cis-1,2-Dichloroethene	**1.1**	**J M**	2.0	1.0	0.25	ug/L		11/27/24 15:56	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 15:56	1
1,2-Dichloroethene, Total	**1.3**	**J**	2.0	1.0	0.37	ug/L		11/27/24 15:56	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 15:56	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/27/24 15:56	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 15:56	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 15:56	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 15:56	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 15:56	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/27/24 15:56	1
Ethylbenzene	0.50	U M	1.0	0.50	0.20	ug/L		11/27/24 15:56	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/28/24 13:48	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/27/24 15:56	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 15:56	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/27/24 15:56	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/27/24 15:56	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/27/24 15:56	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/27/24 15:56	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/28/24 13:48	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 15:56	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: XSA-12-95X-FAL24
Date Collected: 11/15/24 10:40
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 15:56	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 15:56	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 15:56	1
Tetrachloroethene	1.0	U M	2.0	1.0	0.35	ug/L		11/27/24 15:56	1
Toluene	**0.58**	**J**	2.0	1.0	0.25	ug/L		11/27/24 15:56	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 13:48	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/28/24 13:48	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/27/24 15:56	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/27/24 15:56	1
Trichloroethene	**0.24**	**J**	1.0	0.50	0.20	ug/L		11/27/24 15:56	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 15:56	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/27/24 15:56	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 15:56	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 15:56	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/28/24 13:48	1
Vinyl chloride	1.0	U M	2.0	1.0	0.40	ug/L		11/27/24 15:56	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 15:56	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 15:56	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*89 - 112*		*11/27/24 15:56*	*1*
Toluene-d8 (Surr)	*102*		*89 - 112*		*11/28/24 13:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*11/27/24 15:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*81 - 118*		*11/28/24 13:48*	*1*
4-Bromofluorobenzene (Surr)	*97*		*85 - 114*		*11/27/24 15:56*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*11/28/24 13:48*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 119*		*11/27/24 15:56*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*11/28/24 13:48*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**2500**		100	50	20	ug/L		11/21/24 18:22	1
Manganese	**15000**		10	5.0	1.3	ug/L		11/21/24 18:22	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**1.2**	**J**	5.0	3.0	0.86	ug/L		11/20/24 18:02	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: XSA-12-96X-FAL24
Date Collected: 11/13/24 15:10
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/26/24 19:42	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 19:42	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/26/24 19:42	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 19:42	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 19:42	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/26/24 19:42	1
Bromomethane	10	U Q	20	10	3.7	ug/L		11/26/24 19:42	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/26/24 19:42	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/26/24 19:42	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/26/24 19:42	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 19:42	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 19:42	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/26/24 19:42	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/26/24 19:42	1
Chloroethane	10	U Q	20	10	4.6	ug/L		11/26/24 19:42	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 19:42	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/26/24 19:42	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/26/24 19:42	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 19:42	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/26/24 19:42	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/26/24 19:42	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 19:42	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 19:42	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 19:42	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 19:42	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 19:42	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 19:42	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 19:42	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 19:42	1
cis-1,2-Dichloroethene	**3.6**		2.0	1.0	0.25	ug/L		11/26/24 19:42	1
trans-1,2-Dichloroethene	**2.2**		2.0	1.0	0.34	ug/L		11/26/24 19:42	1
1,2-Dichloroethene, Total	**5.8**		2.0	1.0	0.37	ug/L		11/26/24 19:42	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 19:42	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/26/24 19:42	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 19:42	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 19:42	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 19:42	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 19:42	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/26/24 19:42	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 19:42	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/26/24 19:42	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/26/24 19:42	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 19:42	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/26/24 19:42	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/26/24 19:42	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/26/24 19:42	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 19:42	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/26/24 19:42	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 19:42	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: XSA-12-96X-FAL24
Date Collected: 11/13/24 15:10
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 19:42	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 19:42	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 19:42	1
Tetrachloroethene	**1.2**	**J**	2.0	1.0	0.35	ug/L		11/26/24 19:42	1
Toluene	**0.40**	**J**	2.0	1.0	0.25	ug/L		11/26/24 19:42	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 19:42	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/26/24 19:42	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/26/24 19:42	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/26/24 19:42	1
Trichloroethene	**2.5**		1.0	0.50	0.20	ug/L		11/26/24 19:42	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 19:42	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/26/24 19:42	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 19:42	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 19:42	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/26/24 19:42	1
Vinyl chloride	**2.7**		2.0	1.0	0.40	ug/L		11/26/24 19:42	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 19:42	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 19:42	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*89 - 112*		*11/26/24 19:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*81 - 118*		*11/26/24 19:42*	*1*
4-Bromofluorobenzene (Surr)	*112*		*85 - 114*		*11/26/24 19:42*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*11/26/24 19:42*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**2500**		100	50	20	ug/L		11/21/24 18:25	1
Manganese	**4200**		10	5.0	1.3	ug/L		11/21/24 18:25	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	**1.8**	**J**	5.0	3.0	0.86	ug/L		11/20/24 18:04	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: XSA-12-98X-FAL24
Date Collected: 11/15/24 11:45
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/27/24 16:18	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 16:18	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/27/24 16:18	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 16:18	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 16:18	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/27/24 16:18	1
Bromomethane	10	U	20	10	3.7	ug/L		11/27/24 16:18	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/27/24 16:18	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/27/24 16:18	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/27/24 16:18	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 16:18	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 16:18	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/27/24 16:18	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/27/24 16:18	1
Chloroethane	10	U	20	10	4.6	ug/L		11/27/24 16:18	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 16:18	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/27/24 16:18	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/27/24 16:18	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 16:18	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/27/24 16:18	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/28/24 14:10	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 16:18	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 16:18	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 16:18	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 16:18	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 16:18	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 14:10	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 16:18	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/27/24 16:18	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 16:18	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 16:18	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/27/24 16:18	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 16:18	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/27/24 16:18	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 16:18	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 16:18	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 16:18	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 16:18	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/27/24 16:18	1
Ethylbenzene	0.50	U M	1.0	0.50	0.20	ug/L		11/27/24 16:18	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/28/24 14:10	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/27/24 16:18	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 16:18	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/27/24 16:18	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/27/24 16:18	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/27/24 16:18	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/27/24 16:18	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/28/24 14:10	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 16:18	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: XSA-12-98X-FAL24
Date Collected: 11/15/24 11:45
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 16:18	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 16:18	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 16:18	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 16:18	1
Toluene	**0.63**	**J M**	2.0	1.0	0.25	ug/L		11/27/24 16:18	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 14:10	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/28/24 14:10	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/27/24 16:18	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/27/24 16:18	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/27/24 16:18	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 16:18	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/27/24 16:18	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 16:18	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 16:18	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/28/24 14:10	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 16:18	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 16:18	1
m-Xylene & p-Xylene	1.0	U M	2.0	1.0	0.49	ug/L		11/27/24 16:18	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*89 - 112*		*11/27/24 16:18*	*1*
Toluene-d8 (Surr)	*101*		*89 - 112*		*11/28/24 14:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*81 - 118*		*11/27/24 16:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*81 - 118*		*11/28/24 14:10*	*1*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*		*11/27/24 16:18*	*1*
4-Bromofluorobenzene (Surr)	*108*		*85 - 114*		*11/28/24 14:10*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*11/27/24 16:18*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*11/28/24 14:10*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	**39**	**J**	100	50	20	ug/L		11/21/24 18:28	1
Manganese	**4.6**	**J**	10	5.0	1.3	ug/L		11/21/24 18:28	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		11/20/24 18:06	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: AOC50-RB05-FAL24
Date Collected: 11/13/24 16:00
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/26/24 17:04	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 17:04	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/26/24 17:04	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 17:04	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 17:04	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/26/24 17:04	1
Bromomethane	10	U Q	20	10	3.7	ug/L		11/26/24 17:04	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/26/24 17:04	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/26/24 17:04	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/26/24 17:04	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 17:04	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 17:04	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/26/24 17:04	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/26/24 17:04	1
Chloroethane	10	U Q	20	10	4.6	ug/L		11/26/24 17:04	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 17:04	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/26/24 17:04	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/26/24 17:04	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 17:04	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/26/24 17:04	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/26/24 17:04	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 17:04	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 17:04	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 17:04	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 17:04	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 17:04	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 17:04	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 17:04	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/26/24 17:04	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 17:04	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 17:04	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/26/24 17:04	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 17:04	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/26/24 17:04	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 17:04	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 17:04	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 17:04	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 17:04	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/26/24 17:04	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 17:04	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/26/24 17:04	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/26/24 17:04	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 17:04	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/26/24 17:04	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/26/24 17:04	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/26/24 17:04	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 17:04	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/26/24 17:04	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 17:04	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: AOC50-RB05-FAL24
Date Collected: 11/13/24 16:00
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 17:04	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 17:04	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 17:04	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 17:04	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 17:04	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 17:04	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/26/24 17:04	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/26/24 17:04	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/26/24 17:04	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 17:04	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 17:04	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/26/24 17:04	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 17:04	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 17:04	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/26/24 17:04	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 17:04	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 17:04	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 17:04	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*89 - 112*		*11/26/24 17:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*81 - 118*		*11/26/24 17:04*	*1*
4-Bromofluorobenzene (Surr)	*112*		*85 - 114*		*11/26/24 17:04*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*11/26/24 17:04*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/21/24 18:31	1
Manganese	5.0	U	10	5.0	1.3	ug/L		11/21/24 18:31	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		11/20/24 18:08	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: AOC50-RB06-FAL24
Date Collected: 11/14/24 11:10
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U M	25	10	3.7	ug/L		11/27/24 16:39	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 16:39	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/27/24 16:39	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 16:39	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 16:39	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/27/24 16:39	1
Bromomethane	10	U	20	10	3.7	ug/L		11/27/24 16:39	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/27/24 16:39	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/27/24 16:39	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/27/24 16:39	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 16:39	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 16:39	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/27/24 16:39	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/27/24 16:39	1
Chloroethane	10	U	20	10	4.6	ug/L		11/27/24 16:39	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 16:39	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/27/24 16:39	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/27/24 16:39	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 16:39	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/27/24 16:39	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/28/24 14:32	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 16:39	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 16:39	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 16:39	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 16:39	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 16:39	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 14:32	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 16:39	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/27/24 16:39	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 16:39	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 16:39	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/27/24 16:39	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 16:39	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/27/24 16:39	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 16:39	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 16:39	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 16:39	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 16:39	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/27/24 16:39	1
Ethylbenzene	0.50	U M	1.0	0.50	0.20	ug/L		11/27/24 16:39	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/28/24 14:32	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/27/24 16:39	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 16:39	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/27/24 16:39	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/27/24 16:39	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/27/24 16:39	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/27/24 16:39	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/28/24 14:32	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 16:39	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: AOC50-RB06-FAL24
Date Collected: 11/14/24 11:10
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 16:39	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 16:39	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 16:39	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 16:39	1
Toluene	**0.71**	**J M**	2.0	1.0	0.25	ug/L		11/27/24 16:39	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 14:32	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/28/24 14:32	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/27/24 16:39	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/27/24 16:39	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/27/24 16:39	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 16:39	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/27/24 16:39	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 16:39	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 16:39	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/28/24 14:32	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 16:39	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 16:39	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 16:39	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*89 - 112*		*11/27/24 16:39*	*1*
Toluene-d8 (Surr)	*101*		*89 - 112*		*11/28/24 14:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*81 - 118*		*11/27/24 16:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*81 - 118*		*11/28/24 14:32*	*1*
4-Bromofluorobenzene (Surr)	*95*		*85 - 114*		*11/27/24 16:39*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*11/28/24 14:32*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 119*		*11/27/24 16:39*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*11/28/24 14:32*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/21/24 18:34	1
Manganese	5.0	U	10	5.0	1.3	ug/L		11/21/24 18:34	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		11/20/24 18:10	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: AOC50-Trip Blank

Date Collected: 11/14/24 00:00
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-15

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/27/24 12:42	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 12:42	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/27/24 12:42	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 12:42	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 12:42	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/27/24 12:42	1
Bromomethane	10	U	20	10	3.7	ug/L		11/27/24 12:42	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/27/24 12:42	1
n-Butylbenzene	2.0	U M	2.5	2.0	0.52	ug/L		11/27/24 12:42	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/27/24 12:42	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 12:42	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 12:42	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/27/24 12:42	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/27/24 12:42	1
Chloroethane	10	U	20	10	4.6	ug/L		11/27/24 12:42	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 12:42	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/27/24 12:42	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/27/24 12:42	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 12:42	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/27/24 12:42	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/28/24 13:26	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 12:42	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 12:42	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 12:42	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 12:42	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 12:42	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 13:26	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 12:42	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/27/24 12:42	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 12:42	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 12:42	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/27/24 12:42	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 12:42	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/27/24 12:42	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 12:42	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 12:42	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 12:42	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 12:42	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/27/24 12:42	1
Ethylbenzene	0.50	U M	1.0	0.50	0.20	ug/L		11/27/24 12:42	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/28/24 13:26	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/27/24 12:42	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 12:42	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/27/24 12:42	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/27/24 12:42	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/27/24 12:42	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/27/24 12:42	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/28/24 13:26	1
N-Propylbenzene	1.0	U M	2.0	1.0	0.41	ug/L		11/27/24 12:42	1

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: AOC50-Trip Blank
Date Collected: 11/14/24 00:00
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-15
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 12:42	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 12:42	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 12:42	1
Tetrachloroethene	1.0	U M	2.0	1.0	0.35	ug/L		11/27/24 12:42	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 12:42	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 13:26	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/28/24 13:26	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/27/24 12:42	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/27/24 12:42	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/27/24 12:42	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 12:42	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/27/24 12:42	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 12:42	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 12:42	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/28/24 13:26	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 12:42	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 12:42	1
m-Xylene & p-Xylene	1.0	U M	2.0	1.0	0.49	ug/L		11/27/24 12:42	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*89 - 112*		*11/27/24 12:42*	*1*
Toluene-d8 (Surr)	*101*		*89 - 112*		*11/28/24 13:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*11/27/24 12:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*81 - 118*		*11/28/24 13:26*	*1*
4-Bromofluorobenzene (Surr)	*98*		*85 - 114*		*11/27/24 12:42*	*1*
4-Bromofluorobenzene (Surr)	*107*		*85 - 114*		*11/28/24 13:26*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 119*		*11/27/24 12:42*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*11/28/24 13:26*	*1*

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Client Sample ID: AOC50-RB-07-FAL24
Date Collected: 11/15/24 11:30
Date Received: 11/19/24 09:56

Lab Sample ID: 680-258802-16
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/27/24 17:01	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 17:01	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/27/24 17:01	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 17:01	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 17:01	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/27/24 17:01	1
Bromomethane	10	U	20	10	3.7	ug/L		11/27/24 17:01	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/27/24 17:01	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/27/24 17:01	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/27/24 17:01	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 17:01	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 17:01	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/27/24 17:01	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/27/24 17:01	1
Chloroethane	10	U	20	10	4.6	ug/L		11/27/24 17:01	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 17:01	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/27/24 17:01	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/27/24 17:01	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 17:01	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/27/24 17:01	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/28/24 14:54	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 17:01	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 17:01	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 17:01	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 17:01	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 17:01	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 14:54	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 17:01	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/27/24 17:01	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 17:01	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 17:01	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/27/24 17:01	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 17:01	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/27/24 17:01	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 17:01	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 17:01	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 17:01	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 17:01	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/27/24 17:01	1
Ethylbenzene	0.50	U M	1.0	0.50	0.20	ug/L		11/27/24 17:01	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/28/24 14:54	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/27/24 17:01	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 17:01	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/27/24 17:01	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/27/24 17:01	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/27/24 17:01	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/27/24 17:01	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/28/24 14:54	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 17:01	1

Client: Seres Engineering & Services LLC
Job ID: 680-258802-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: AOC50-RB-07-FAL24
Lab Sample ID: 680-258802-16
Date Collected: 11/15/24 11:30
Matrix: Water
Date Received: 11/19/24 09:56

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 17:01	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 17:01	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 17:01	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 17:01	1
Toluene	1.0	U M	2.0	1.0	0.25	ug/L		11/27/24 17:01	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 14:54	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/28/24 14:54	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/27/24 17:01	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/27/24 17:01	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/27/24 17:01	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 17:01	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/27/24 17:01	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 17:01	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 17:01	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/28/24 14:54	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 17:01	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 17:01	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 17:01	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*89 - 112*		*11/27/24 17:01*	*1*
Toluene-d8 (Surr)	*100*		*89 - 112*		*11/28/24 14:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*81 - 118*		*11/27/24 17:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*81 - 118*		*11/28/24 14:54*	*1*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*		*11/27/24 17:01*	*1*
4-Bromofluorobenzene (Surr)	*108*		*85 - 114*		*11/28/24 14:54*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 119*		*11/27/24 17:01*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*11/28/24 14:54*	*1*

Method: SW846 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/21/24 18:36	1
Manganese	5.0	U	10	5.0	1.3	ug/L		11/21/24 18:36	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		11/20/24 18:12	1

Method: 8260D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-866305/8
Matrix: Water
Analysis Batch: 866305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/26/24 12:33	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 12:33	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/26/24 12:33	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 12:33	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 12:33	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/26/24 12:33	1
Bromomethane	10	U	20	10	3.7	ug/L		11/26/24 12:33	1
2-Butanone (MEK)	20	U M	25	20	6.4	ug/L		11/26/24 12:33	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/26/24 12:33	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/26/24 12:33	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 12:33	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 12:33	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/26/24 12:33	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/26/24 12:33	1
Chloroethane	10	U	20	10	4.6	ug/L		11/26/24 12:33	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 12:33	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/26/24 12:33	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/26/24 12:33	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 12:33	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/26/24 12:33	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/26/24 12:33	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 12:33	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 12:33	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 12:33	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 12:33	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/26/24 12:33	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 12:33	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 12:33	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/26/24 12:33	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 12:33	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/26/24 12:33	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/26/24 12:33	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 12:33	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/26/24 12:33	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 12:33	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 12:33	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 12:33	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 12:33	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/26/24 12:33	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 12:33	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/26/24 12:33	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/26/24 12:33	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 12:33	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/26/24 12:33	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/26/24 12:33	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/26/24 12:33	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 12:33	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/26/24 12:33	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-866305/8
Matrix: Water
Analysis Batch: 866305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/26/24 12:33	1
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/26/24 12:33	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/26/24 12:33	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 12:33	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/26/24 12:33	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/26/24 12:33	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/26/24 12:33	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/26/24 12:33	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/26/24 12:33	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/26/24 12:33	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/26/24 12:33	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/26/24 12:33	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/26/24 12:33	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/26/24 12:33	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/26/24 12:33	1
Vinyl acetate	2.0	U Q	2.5	2.0	0.69	ug/L		11/26/24 12:33	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/26/24 12:33	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/26/24 12:33	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 12:33	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/26/24 12:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*89 - 112*		*11/26/24 12:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*81 - 118*		*11/26/24 12:33*	*1*
4-Bromofluorobenzene (Surr)	*110*		*85 - 114*		*11/26/24 12:33*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*11/26/24 12:33*	*1*

Lab Sample ID: LCS 680-866305/4
Matrix: Water
Analysis Batch: 866305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	229		ug/L		91	39 - 160
Benzene	50.0	53.1		ug/L		106	79 - 120
Bromobenzene	50.0	50.2		ug/L		100	80 - 120
Chlorobromomethane	50.0	53.0		ug/L		106	78 - 123
Dichlorobromomethane	50.0	56.0		ug/L		112	79 - 125
Bromoform	50.0	47.9		ug/L		96	66 - 130
Bromomethane	50.0	28.6		ug/L		57	53 - 141
2-Butanone (MEK)	250	222		ug/L		89	56 - 143
n-Butylbenzene	50.0	55.8		ug/L		112	75 - 128
sec-Butylbenzene	50.0	54.4		ug/L		109	77 - 126
tert-Butylbenzene	50.0	52.3		ug/L		105	78 - 124
Carbon disulfide	50.0	54.3		ug/L		109	64 - 133
Carbon tetrachloride	50.0	56.6		ug/L		113	72 - 136
Chlorobenzene	50.0	46.2		ug/L		92	82 - 118
Chloroethane	50.0	73.8	M Q	ug/L		148	60 - 138
Chloroform	50.0	52.0		ug/L		104	79 - 124

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-866305/4
Matrix: Water
Analysis Batch: 866305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	50.0	50.1		ug/L		100	50 - 139
2-Chlorotoluene	50.0	54.8		ug/L		110	79 - 122
4-Chlorotoluene	50.0	54.7		ug/L		109	78 - 122
Chlorodibromomethane	50.0	47.0		ug/L		94	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	45.6		ug/L		91	62 - 128
Ethylene Dibromide	50.0	48.7		ug/L		97	75 - 127
Dibromomethane	50.0	53.8		ug/L		108	79 - 123
1,2-Dichlorobenzene	50.0	49.7		ug/L		99	80 - 119
1,3-Dichlorobenzene	50.0	50.5		ug/L		101	80 - 119
1,4-Dichlorobenzene	50.0	50.5		ug/L		101	79 - 118
Dichlorodifluoromethane	50.0	53.2		ug/L		106	32 - 152
1,1-Dichloroethane	50.0	56.2		ug/L		112	77 - 125
1,2-Dichloroethane	50.0	58.0		ug/L		116	73 - 128
cis-1,2-Dichloroethene	50.0	57.7		ug/L		115	78 - 123
trans-1,2-Dichloroethene	50.0	50.7		ug/L		101	75 - 124
1,2-Dichloroethene, Total	100	108		ug/L		108	79 - 121
1,1-Dichloroethene	50.0	52.7		ug/L		105	71 - 131
1,2-Dichloropropane	50.0	56.2		ug/L		112	78 - 122
1,3-Dichloropropane	50.0	50.8		ug/L		102	80 - 119
2,2-Dichloropropane	50.0	58.6		ug/L		117	60 - 139
1,1-Dichloropropene	50.0	56.8		ug/L		114	79 - 125
cis-1,3-Dichloropropene	50.0	56.7		ug/L		113	75 - 124
trans-1,3-Dichloropropene	50.0	56.0		ug/L		112	73 - 127
Ethylbenzene	50.0	51.2		ug/L		102	79 - 121
Hexachlorobutadiene	50.0	48.7		ug/L		97	66 - 134
2-Hexanone	250	227		ug/L		91	57 - 139
Isopropylbenzene	50.0	53.4		ug/L		107	72 - 131
4-Isopropyltoluene	50.0	52.6		ug/L		105	77 - 127
Methylene Chloride	50.0	54.9		ug/L		110	74 - 124
4-Methyl-2-pentanone (MIBK)	250	260		ug/L		104	67 - 130
Methyl tert-butyl ether	50.0	52.5		ug/L		105	71 - 124
Naphthalene	50.0	49.2		ug/L		98	61 - 128
N-Propylbenzene	50.0	55.0		ug/L		110	76 - 126
Styrene	50.0	52.4		ug/L		105	78 - 123
1,1,1,2-Tetrachloroethane	50.0	49.8		ug/L		100	78 - 124
1,1,2,2-Tetrachloroethane	50.0	52.7		ug/L		105	71 - 121
Tetrachloroethene	50.0	47.2		ug/L		94	74 - 129
Toluene	50.0	52.1		ug/L		104	80 - 121
1,2,3-Trichlorobenzene	50.0	49.0		ug/L		98	69 - 129
1,2,4-Trichlorobenzene	50.0	49.1		ug/L		98	69 - 130
1,1,1-Trichloroethane	50.0	55.4		ug/L		111	74 - 131
1,1,2-Trichloroethane	50.0	49.5		ug/L		99	80 - 119
Trichloroethene	50.0	49.3		ug/L		99	79 - 123
Trichlorofluoromethane	50.0	57.7		ug/L		115	65 - 141
1,2,3-Trichloropropane	50.0	49.8		ug/L		100	73 - 122
1,2,4-Trimethylbenzene	50.0	53.9		ug/L		108	76 - 124
1,3,5-Trimethylbenzene	50.0	53.5		ug/L		107	75 - 124
Vinyl acetate	100	155	Q	ug/L		155	54 - 146
Vinyl chloride	50.0	53.5		ug/L		107	58 - 137

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-866305/4
Matrix: Water
Analysis Batch: 866305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	50.0	53.1		ug/L		106	78 - 122
m-Xylene & p-Xylene	50.0	52.4		ug/L		105	80 - 121
Xylenes, Total	100	106		ug/L		106	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*110*		*81 - 118*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*
Dibromofluoromethane (Surr)	*105*		*80 - 119*

Lab Sample ID: LCSD 680-866305/5
Matrix: Water
Analysis Batch: 866305

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
Acetone	250	241		ug/L		97	39 - 160	6	20
Benzene	50.0	53.0		ug/L		106	79 - 120	0	20
Bromobenzene	50.0	50.0		ug/L		100	80 - 120	0	20
Chlorobromomethane	50.0	53.6		ug/L		107	78 - 123	1	20
Dichlorobromomethane	50.0	56.9		ug/L		114	79 - 125	2	20
Bromoform	50.0	48.6		ug/L		97	66 - 130	1	20
Bromomethane	50.0	27.1		ug/L		54	53 - 141	5	20
2-Butanone (MEK)	250	233		ug/L		93	56 - 143	5	20
n-Butylbenzene	50.0	55.1		ug/L		110	75 - 128	1	20
sec-Butylbenzene	50.0	54.0		ug/L		108	77 - 126	1	20
tert-Butylbenzene	50.0	52.5		ug/L		105	78 - 124	0	20
Carbon disulfide	50.0	53.6		ug/L		107	64 - 133	1	20
Carbon tetrachloride	50.0	56.1		ug/L		112	72 - 136	1	20
Chlorobenzene	50.0	46.1		ug/L		92	82 - 118	0	20
Chloroethane	50.0	72.3	Q	ug/L		145	60 - 138	2	20
Chloroform	50.0	51.9		ug/L		104	79 - 124	0	20
Chloromethane	50.0	49.7		ug/L		99	50 - 139	1	20
2-Chlorotoluene	50.0	53.8		ug/L		108	79 - 122	2	20
4-Chlorotoluene	50.0	54.3		ug/L		109	78 - 122	1	20
Chlorodibromomethane	50.0	48.2		ug/L		96	74 - 126	3	20
1,2-Dibromo-3-Chloropropane	50.0	46.8		ug/L		94	62 - 128	3	20
Ethylene Dibromide	50.0	50.2		ug/L		100	75 - 127	3	20
Dibromomethane	50.0	55.6		ug/L		111	79 - 123	3	20
1,2-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 119	1	20
1,3-Dichlorobenzene	50.0	50.6		ug/L		101	80 - 119	0	20
1,4-Dichlorobenzene	50.0	50.7		ug/L		101	79 - 118	0	20
Dichlorodifluoromethane	50.0	51.4		ug/L		103	32 - 152	3	20
1,1-Dichloroethane	50.0	56.6		ug/L		113	77 - 125	1	20
1,2-Dichloroethane	50.0	58.5		ug/L		117	73 - 128	1	20
cis-1,2-Dichloroethene	50.0	57.3		ug/L		115	78 - 123	1	20
trans-1,2-Dichloroethene	50.0	50.6		ug/L		101	75 - 124	0	20
1,2-Dichloroethene, Total	100	108		ug/L		108	79 - 121	0	20
1,1-Dichloroethene	50.0	52.9		ug/L		106	71 - 131	0	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-866305/5
Matrix: Water
Analysis Batch: 866305

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
1,2-Dichloropropane			50.0	56.5		ug/L		113	78 - 122	0	20
1,3-Dichloropropane			50.0	52.1		ug/L		104	80 - 119	3	20
2,2-Dichloropropane			50.0	58.0		ug/L		116	60 - 139	1	20
1,1-Dichloropropene			50.0	56.3		ug/L		113	79 - 125	1	20
cis-1,3-Dichloropropene			50.0	57.4		ug/L		115	75 - 124	1	20
trans-1,3-Dichloropropene			50.0	56.5		ug/L		113	73 - 127	1	20
Ethylbenzene			50.0	50.6		ug/L		101	79 - 121	1	20
Hexachlorobutadiene			50.0	48.9		ug/L		98	66 - 134	0	20
2-Hexanone			250	238		ug/L		95	57 - 139	4	20
Isopropylbenzene			50.0	52.9		ug/L		106	72 - 131	1	20
4-Isopropyltoluene			50.0	52.1		ug/L		104	77 - 127	1	20
Methylene Chloride			50.0	56.4		ug/L		113	74 - 124	3	20
4-Methyl-2-pentanone (MIBK)			250	271		ug/L		109	67 - 130	4	20
Methyl tert-butyl ether			50.0	53.5		ug/L		107	71 - 124	2	20
Naphthalene			50.0	50.5		ug/L		101	61 - 128	3	20
N-Propylbenzene			50.0	54.5		ug/L		109	76 - 126	1	20
Styrene			50.0	52.6		ug/L		105	78 - 123	0	20
1,1,1,2-Tetrachloroethane			50.0	49.9		ug/L		100	78 - 124	0	20
1,1,2,2-Tetrachloroethane			50.0	53.5		ug/L		107	71 - 121	2	20
Tetrachloroethene			50.0	47.4		ug/L		95	74 - 129	0	20
Toluene			50.0	52.4		ug/L		105	80 - 121	1	20
1,2,3-Trichlorobenzene			50.0	49.8		ug/L		100	69 - 129	2	20
1,2,4-Trichlorobenzene			50.0	50.4		ug/L		101	69 - 130	3	20
1,1,1-Trichloroethane			50.0	54.9		ug/L		110	74 - 131	1	20
1,1,2-Trichloroethane			50.0	51.0		ug/L		102	80 - 119	3	20
Trichloroethene			50.0	49.1		ug/L		98	79 - 123	0	20
Trichlorofluoromethane			50.0	56.9		ug/L		114	65 - 141	1	20
1,2,3-Trichloropropane			50.0	51.5		ug/L		103	73 - 122	3	20
1,2,4-Trimethylbenzene			50.0	53.6		ug/L		107	76 - 124	1	20
1,3,5-Trimethylbenzene			50.0	53.0		ug/L		106	75 - 124	1	20
Vinyl acetate			100	154	Q	ug/L		154	54 - 146	1	20
Vinyl chloride			50.0	52.2		ug/L		104	58 - 137	2	20
o-Xylene			50.0	53.4		ug/L		107	78 - 122	1	20
m-Xylene & p-Xylene			50.0	52.2		ug/L		104	80 - 121	0	20
Xylenes, Total			100	106		ug/L		106	79 - 121	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*112*		*81 - 118*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*
Dibromofluoromethane (Surr)	*105*		*80 - 119*

Lab Sample ID: MB 680-866541/8
Matrix: Water
Analysis Batch: 866541

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/27/24 11:34	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-866541/8
Matrix: Water
Analysis Batch: 866541

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 11:34	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/27/24 11:34	1
Chlorobromomethane	1.0	U M	2.0	1.0	0.34	ug/L		11/27/24 11:34	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 11:34	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/27/24 11:34	1
Bromomethane	10	U	20	10	3.7	ug/L		11/27/24 11:34	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/27/24 11:34	1
n-Butylbenzene	0.831	J	2.5	2.0	0.52	ug/L		11/27/24 11:34	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/27/24 11:34	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 11:34	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 11:34	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/27/24 11:34	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/27/24 11:34	1
Chloroethane	10	U	20	10	4.6	ug/L		11/27/24 11:34	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 11:34	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/27/24 11:34	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/27/24 11:34	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 11:34	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/27/24 11:34	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/27/24 11:34	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 11:34	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 11:34	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 11:34	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/27/24 11:34	1
1,4-Dichlorobenzene	1.0	U M	2.0	1.0	0.31	ug/L		11/27/24 11:34	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 11:34	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 11:34	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/27/24 11:34	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 11:34	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/27/24 11:34	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/27/24 11:34	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 11:34	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/27/24 11:34	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 11:34	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/27/24 11:34	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 11:34	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 11:34	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/27/24 11:34	1
Ethylbenzene	0.50	U M	1.0	0.50	0.20	ug/L		11/27/24 11:34	1
Hexachlorobutadiene	1.0	U M	5.0	1.0	0.22	ug/L		11/27/24 11:34	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/27/24 11:34	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 11:34	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/27/24 11:34	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/27/24 11:34	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/27/24 11:34	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/27/24 11:34	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/27/24 11:34	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/27/24 11:34	1
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/27/24 11:34	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-866541/8
Matrix: Water
Analysis Batch: 866541

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/27/24 11:34	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 11:34	1
Tetrachloroethene	1.0	U M	2.0	1.0	0.35	ug/L		11/27/24 11:34	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/27/24 11:34	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/27/24 11:34	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/27/24 11:34	1
Trichloroethene	0.50	U M	1.0	0.50	0.20	ug/L		11/27/24 11:34	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/27/24 11:34	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/27/24 11:34	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/27/24 11:34	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/27/24 11:34	1
Vinyl acetate	2.0	U M	2.5	2.0	0.69	ug/L		11/27/24 11:34	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/27/24 11:34	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/27/24 11:34	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 11:34	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/27/24 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*89 - 112*		*11/27/24 11:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*81 - 118*		*11/27/24 11:34*	*1*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*		*11/27/24 11:34*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*11/27/24 11:34*	*1*

Lab Sample ID: LCS 680-866541/4
Matrix: Water
Analysis Batch: 866541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	217		ug/L		87	39 - 160
Benzene	50.0	49.3		ug/L		99	79 - 120
Bromobenzene	50.0	55.0		ug/L		110	80 - 120
Chlorobromomethane	50.0	50.9		ug/L		102	78 - 123
Dichlorobromomethane	50.0	49.4		ug/L		99	79 - 125
Bromoform	50.0	45.4		ug/L		91	66 - 130
Bromomethane	50.0	52.9		ug/L		106	53 - 141
2-Butanone (MEK)	250	223		ug/L		89	56 - 143
n-Butylbenzene	50.0	48.0		ug/L		96	75 - 128
sec-Butylbenzene	50.0	54.7		ug/L		109	77 - 126
tert-Butylbenzene	50.0	51.6		ug/L		103	78 - 124
Carbon disulfide	50.0	48.6		ug/L		97	64 - 133
Carbon tetrachloride	50.0	50.3		ug/L		101	72 - 136
Chlorobenzene	50.0	50.3		ug/L		101	82 - 118
Chloroethane	50.0	51.7		ug/L		103	60 - 138
Chloroform	50.0	51.9		ug/L		104	79 - 124
Chloromethane	50.0	51.5		ug/L		103	50 - 139
2-Chlorotoluene	50.0	51.6		ug/L		103	79 - 122
4-Chlorotoluene	50.0	53.7		ug/L		107	78 - 122
Chlorodibromomethane	50.0	45.7		ug/L		91	74 - 126

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-866541/4
Matrix: Water
Analysis Batch: 866541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	50.0	33.9		ug/L		68	62 - 128
Ethylene Dibromide	50.0	51.6		ug/L		103	75 - 127
Dibromomethane	50.0	46.8		ug/L		94	79 - 123
1,2-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 119
1,3-Dichlorobenzene	50.0	51.4		ug/L		103	80 - 119
1,4-Dichlorobenzene	50.0	47.9		ug/L		96	79 - 118
Dichlorodifluoromethane	50.0	47.6		ug/L		95	32 - 152
1,1-Dichloroethane	50.0	48.8		ug/L		98	77 - 125
1,2-Dichloroethane	50.0	49.3		ug/L		99	73 - 128
cis-1,2-Dichloroethene	50.0	50.2		ug/L		100	78 - 123
trans-1,2-Dichloroethene	50.0	54.3		ug/L		109	75 - 124
1,2-Dichloroethene, Total	100	105		ug/L		105	79 - 121
1,1-Dichloroethene	50.0	52.5		ug/L		105	71 - 131
1,2-Dichloropropane	50.0	48.6		ug/L		97	78 - 122
1,3-Dichloropropane	50.0	51.2		ug/L		102	80 - 119
2,2-Dichloropropane	50.0	50.2	M	ug/L		100	60 - 139
1,1-Dichloropropene	50.0	50.2		ug/L		100	79 - 125
cis-1,3-Dichloropropene	50.0	50.4		ug/L		101	75 - 124
trans-1,3-Dichloropropene	50.0	46.2		ug/L		92	73 - 127
Ethylbenzene	50.0	50.8		ug/L		102	79 - 121
Hexachlorobutadiene	50.0	48.3		ug/L		97	66 - 134
2-Hexanone	250	245		ug/L		98	57 - 139
Isopropylbenzene	50.0	47.6		ug/L		95	72 - 131
4-Isopropyltoluene	50.0	54.7		ug/L		109	77 - 127
Methylene Chloride	50.0	50.3		ug/L		101	74 - 124
4-Methyl-2-pentanone (MIBK)	250	245		ug/L		98	67 - 130
Methyl tert-butyl ether	50.0	49.4		ug/L		99	71 - 124
Naphthalene	50.0	45.9		ug/L		92	61 - 128
N-Propylbenzene	50.0	54.4		ug/L		109	76 - 126
Styrene	50.0	49.8		ug/L		100	78 - 123
1,1,1,2-Tetrachloroethane	50.0	49.0		ug/L		98	78 - 124
1,1,2,2-Tetrachloroethane	50.0	51.1		ug/L		102	71 - 121
Tetrachloroethene	50.0	49.7		ug/L		99	74 - 129
Toluene	50.0	50.6		ug/L		101	80 - 121
1,1,1-Trichloroethane	50.0	50.3		ug/L		101	74 - 131
1,1,2-Trichloroethane	50.0	46.9		ug/L		94	80 - 119
Trichloroethene	50.0	54.9		ug/L		110	79 - 123
Trichlorofluoromethane	50.0	48.4		ug/L		97	65 - 141
1,2,3-Trichloropropane	50.0	52.1		ug/L		104	73 - 122
1,2,4-Trimethylbenzene	50.0	54.1		ug/L		108	76 - 124
1,3,5-Trimethylbenzene	50.0	53.5		ug/L		107	75 - 124
Vinyl acetate	100	86.7		ug/L		87	54 - 146
Vinyl chloride	50.0	42.5		ug/L		85	58 - 137
o-Xylene	50.0	52.2		ug/L		104	78 - 122
m-Xylene & p-Xylene	50.0	52.3		ug/L		105	80 - 121
Xylenes, Total	100	105		ug/L		105	79 - 121

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-866541/4
Matrix: Water
Analysis Batch: 866541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*103*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*
4-Bromofluorobenzene (Surr)	*95*		*85 - 114*
Dibromofluoromethane (Surr)	*107*	*M*	*80 - 119*

Lab Sample ID: LCSD 680-866541/5
Matrix: Water
Analysis Batch: 866541

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
Acetone			250	237	M	ug/L		95	39 - 160	9	20
Benzene			50.0	49.7		ug/L		99	79 - 120	1	20
Bromobenzene			50.0	54.9		ug/L		110	80 - 120	0	20
Chlorobromomethane			50.0	50.8		ug/L		102	78 - 123	0	20
Dichlorobromomethane			50.0	48.6		ug/L		97	79 - 125	2	20
Bromoform			50.0	45.8		ug/L		92	66 - 130	1	20
Bromomethane			50.0	51.9		ug/L		104	53 - 141	2	20
2-Butanone (MEK)			250	229		ug/L		92	56 - 143	3	20
n-Butylbenzene			50.0	46.7		ug/L		93	75 - 128	3	20
sec-Butylbenzene			50.0	54.1		ug/L		108	77 - 126	1	20
tert-Butylbenzene			50.0	51.4		ug/L		103	78 - 124	0	20
Carbon disulfide			50.0	48.2		ug/L		96	64 - 133	1	20
Carbon tetrachloride			50.0	49.9		ug/L		100	72 - 136	1	20
Chlorobenzene			50.0	50.1		ug/L		100	82 - 118	0	20
Chloroethane			50.0	50.2		ug/L		100	60 - 138	3	20
Chloroform			50.0	52.2		ug/L		104	79 - 124	0	20
Chloromethane			50.0	49.4		ug/L		99	50 - 139	4	20
2-Chlorotoluene			50.0	51.2		ug/L		102	79 - 122	1	20
4-Chlorotoluene			50.0	50.9		ug/L		102	78 - 122	5	20
Chlorodibromomethane			50.0	46.0		ug/L		92	74 - 126	1	20
1,2-Dibromo-3-Chloropropane			50.0	46.7	Q	ug/L		93	62 - 128	32	20
Ethylene Dibromide			50.0	51.6		ug/L		103	75 - 127	0	20
Dibromomethane			50.0	47.6		ug/L		95	79 - 123	2	20
1,2-Dichlorobenzene			50.0	50.0		ug/L		100	80 - 119	1	20
1,3-Dichlorobenzene			50.0	50.5		ug/L		101	80 - 119	2	20
1,4-Dichlorobenzene			50.0	47.3		ug/L		95	79 - 118	1	20
Dichlorodifluoromethane			50.0	64.5	Q	ug/L		129	32 - 152	30	20
1,1-Dichloroethane			50.0	49.2		ug/L		98	77 - 125	1	20
1,2-Dichloroethane			50.0	48.7		ug/L		97	73 - 128	1	20
cis-1,2-Dichloroethene			50.0	51.1		ug/L		102	78 - 123	2	20
trans-1,2-Dichloroethene			50.0	54.2		ug/L		108	75 - 124	0	20
1,2-Dichloroethene, Total			100	105		ug/L		105	79 - 121	1	20
1,1-Dichloroethene			50.0	53.5		ug/L		107	71 - 131	2	20
1,2-Dichloropropane			50.0	48.1		ug/L		96	78 - 122	1	20
1,3-Dichloropropane			50.0	51.8		ug/L		104	80 - 119	1	20
2,2-Dichloropropane			50.0	50.1	M	ug/L		100	60 - 139	0	20
1,1-Dichloropropene			50.0	49.6		ug/L		99	79 - 125	1	20
cis-1,3-Dichloropropene			50.0	49.5		ug/L		99	75 - 124	2	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-866541/5
Matrix: Water
Analysis Batch: 866541

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
trans-1,3-Dichloropropene			50.0	46.5		ug/L		93	73 - 127	1	20
Ethylbenzene			50.0	51.0		ug/L		102	79 - 121	1	20
Hexachlorobutadiene			50.0	34.8	Q	ug/L		70	66 - 134	33	20
2-Hexanone			250	255		ug/L		102	57 - 139	4	20
Isopropylbenzene			50.0	46.8		ug/L		94	72 - 131	2	20
4-Isopropyltoluene			50.0	52.4		ug/L		105	77 - 127	4	20
Methylene Chloride			50.0	49.2		ug/L		98	74 - 124	2	20
4-Methyl-2-pentanone (MIBK)			250	253		ug/L		101	67 - 130	3	20
Methyl tert-butyl ether			50.0	49.3		ug/L		99	71 - 124	0	20
Naphthalene			50.0	31.9	Q	ug/L		64	61 - 128	36	20
N-Propylbenzene			50.0	53.4		ug/L		107	76 - 126	2	20
Styrene			50.0	49.1	M	ug/L		98	78 - 123	1	20
1,1,1,2-Tetrachloroethane			50.0	47.7		ug/L		95	78 - 124	3	20
1,1,2,2-Tetrachloroethane			50.0	50.9		ug/L		102	71 - 121	1	20
Tetrachloroethene			50.0	49.6		ug/L		99	74 - 129	0	20
Toluene			50.0	50.0		ug/L		100	80 - 121	1	20
1,1,1-Trichloroethane			50.0	50.0		ug/L		100	74 - 131	1	20
1,1,2-Trichloroethane			50.0	47.8		ug/L		96	80 - 119	2	20
Trichloroethene			50.0	54.6		ug/L		109	79 - 123	1	20
Trichlorofluoromethane			50.0	47.7		ug/L		95	65 - 141	1	20
1,2,3-Trichloropropane			50.0	50.2		ug/L		100	73 - 122	4	20
1,2,4-Trimethylbenzene			50.0	54.3		ug/L		109	76 - 124	0	20
1,3,5-Trimethylbenzene			50.0	48.0		ug/L		96	75 - 124	11	20
Vinyl acetate			100	81.0		ug/L		81	54 - 146	7	20
Vinyl chloride			50.0	41.2		ug/L		82	58 - 137	3	20
o-Xylene			50.0	50.7		ug/L		101	78 - 122	3	20
m-Xylene & p-Xylene			50.0	52.1		ug/L		104	80 - 121	0	20
Xylenes, Total			100	103		ug/L		103	79 - 121	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*
4-Bromofluorobenzene (Surr)	*96*		*85 - 114*
Dibromofluoromethane (Surr)	*106*		*80 - 119*

Lab Sample ID: MB 680-866666/8
Matrix: Water
Analysis Batch: 866666

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/28/24 12:58	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 12:58	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/28/24 12:58	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 12:58	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/28/24 12:58	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/28/24 12:58	1
Bromomethane	10	U	20	10	3.7	ug/L		11/28/24 12:58	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/28/24 12:58	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-866666/8
Matrix: Water
Analysis Batch: 866666

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/28/24 12:58	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/28/24 12:58	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 12:58	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 12:58	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/28/24 12:58	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/28/24 12:58	1
Chloroethane	10	U	20	10	4.6	ug/L		11/28/24 12:58	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 12:58	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/28/24 12:58	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/28/24 12:58	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/28/24 12:58	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/28/24 12:58	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/28/24 12:58	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 12:58	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 12:58	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 12:58	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 12:58	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 12:58	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 12:58	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 12:58	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/28/24 12:58	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/28/24 12:58	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 12:58	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/28/24 12:58	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 12:58	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/28/24 12:58	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 12:58	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/28/24 12:58	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/28/24 12:58	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 12:58	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/28/24 12:58	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/28/24 12:58	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/28/24 12:58	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/28/24 12:58	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 12:58	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/28/24 12:58	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/28/24 12:58	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/28/24 12:58	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 12:58	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/28/24 12:58	1
N-Propylbenzene	1.0	U M	2.0	1.0	0.41	ug/L		11/28/24 12:58	1
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 12:58	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 12:58	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/28/24 12:58	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/28/24 12:58	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/28/24 12:58	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 12:58	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/28/24 12:58	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/28/24 12:58	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-866666/8
Matrix: Water
Analysis Batch: 866666

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/28/24 12:58	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/28/24 12:58	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 12:58	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/28/24 12:58	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 12:58	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/28/24 12:58	1
Vinyl acetate	2.0	U	2.5	2.0	0.69	ug/L		11/28/24 12:58	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/28/24 12:58	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 12:58	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/28/24 12:58	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/28/24 12:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*89 - 112*		*11/28/24 12:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*81 - 118*		*11/28/24 12:58*	*1*
4-Bromofluorobenzene (Surr)	*109*		*85 - 114*		*11/28/24 12:58*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*11/28/24 12:58*	*1*

Lab Sample ID: LCS 680-866666/4
Matrix: Water
Analysis Batch: 866666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	214		ug/L		86	39 - 160
Benzene	50.0	48.4		ug/L		97	79 - 120
Bromobenzene	50.0	45.7		ug/L		91	80 - 120
Chlorobromomethane	50.0	43.3		ug/L		87	78 - 123
Dichlorobromomethane	50.0	50.5		ug/L		101	79 - 125
Bromoform	50.0	44.3		ug/L		89	66 - 130
Bromomethane	50.0	26.6		ug/L		53	53 - 141
2-Butanone (MEK)	250	250		ug/L		100	56 - 143
n-Butylbenzene	50.0	48.9		ug/L		98	75 - 128
sec-Butylbenzene	50.0	46.9		ug/L		94	77 - 126
tert-Butylbenzene	50.0	47.1		ug/L		94	78 - 124
Carbon disulfide	50.0	44.3		ug/L		89	64 - 133
Carbon tetrachloride	50.0	53.5		ug/L		107	72 - 136
Chlorobenzene	50.0	45.6		ug/L		91	82 - 118
Chloroethane	50.0	46.6		ug/L		93	60 - 138
Chloroform	50.0	49.0		ug/L		98	79 - 124
Chloromethane	50.0	43.4		ug/L		87	50 - 139
2-Chlorotoluene	50.0	45.7		ug/L		91	79 - 122
4-Chlorotoluene	50.0	45.2		ug/L		90	78 - 122
Chlorodibromomethane	50.0	47.3		ug/L		95	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	46.3		ug/L		93	62 - 128
Ethylene Dibromide	50.0	49.5		ug/L		99	75 - 127
Dibromomethane	50.0	46.4		ug/L		93	79 - 123
1,2-Dichlorobenzene	50.0	47.4		ug/L		95	80 - 119
1,3-Dichlorobenzene	50.0	47.3		ug/L		95	80 - 119

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-866666/4
Matrix: Water
Analysis Batch: 866666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	50.0	47.2		ug/L		94	79 - 118
Dichlorodifluoromethane	50.0	45.5		ug/L		91	32 - 152
1,1-Dichloroethane	50.0	46.4		ug/L		93	77 - 125
1,2-Dichloroethane	50.0	52.3		ug/L		105	73 - 128
cis-1,2-Dichloroethene	50.0	45.7		ug/L		91	78 - 123
trans-1,2-Dichloroethene	50.0	48.0		ug/L		96	75 - 124
1,2-Dichloroethene, Total	100	93.6		ug/L		94	79 - 121
1,1-Dichloroethene	50.0	45.6		ug/L		91	71 - 131
1,2-Dichloropropane	50.0	48.9		ug/L		98	78 - 122
1,3-Dichloropropane	50.0	48.2		ug/L		96	80 - 119
2,2-Dichloropropane	50.0	55.5		ug/L		111	60 - 139
1,1-Dichloropropene	50.0	54.8		ug/L		110	79 - 125
cis-1,3-Dichloropropene	50.0	51.7		ug/L		103	75 - 124
trans-1,3-Dichloropropene	50.0	50.8		ug/L		102	73 - 127
Ethylbenzene	50.0	46.5		ug/L		93	79 - 121
Hexachlorobutadiene	50.0	50.0		ug/L		100	66 - 134
2-Hexanone	250	245		ug/L		98	57 - 139
Isopropylbenzene	50.0	47.0		ug/L		94	72 - 131
4-Isopropyltoluene	50.0	49.6		ug/L		99	77 - 127
Methylene Chloride	50.0	46.3		ug/L		93	74 - 124
4-Methyl-2-pentanone (MIBK)	250	233		ug/L		93	67 - 130
Methyl tert-butyl ether	50.0	54.1		ug/L		108	71 - 124
Naphthalene	50.0	48.2		ug/L		96	61 - 128
N-Propylbenzene	50.0	46.2		ug/L		92	76 - 126
Styrene	50.0	46.0		ug/L		92	78 - 123
1,1,1,2-Tetrachloroethane	50.0	50.1		ug/L		100	78 - 124
1,1,2,2-Tetrachloroethane	50.0	47.2		ug/L		94	71 - 121
Tetrachloroethene	50.0	49.7		ug/L		99	74 - 129
Toluene	50.0	46.2		ug/L		92	80 - 121
1,2,3-Trichlorobenzene	50.0	47.8		ug/L		96	69 - 129
1,2,4-Trichlorobenzene	50.0	47.9		ug/L		96	69 - 130
1,1,1-Trichloroethane	50.0	54.6		ug/L		109	74 - 131
1,1,2-Trichloroethane	50.0	47.7		ug/L		95	80 - 119
Trichloroethene	50.0	49.9		ug/L		100	79 - 123
Trichlorofluoromethane	50.0	54.2		ug/L		108	65 - 141
1,2,3-Trichloropropane	50.0	47.6		ug/L		95	73 - 122
1,2,4-Trimethylbenzene	50.0	47.0		ug/L		94	76 - 124
1,3,5-Trimethylbenzene	50.0	47.5		ug/L		95	75 - 124
Vinyl acetate	100	167	Q	ug/L		167	54 - 146
Vinyl chloride	50.0	41.8		ug/L		84	58 - 137
o-Xylene	50.0	46.1		ug/L		92	78 - 122
m-Xylene & p-Xylene	50.0	45.9		ug/L		92	80 - 121
Xylenes, Total	100	92.0		ug/L		92	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*113*		*81 - 118*
4-Bromofluorobenzene (Surr)	*106*		*85 - 114*

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-866666/4
Matrix: Water
Analysis Batch: 866666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*104*		*80 - 119*

Lab Sample ID: LCSD 680-866666/5
Matrix: Water
Analysis Batch: 866666

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
Acetone			250	212		ug/L		85	39 - 160	1	20
Benzene			50.0	47.6		ug/L		95	79 - 120	2	20
Bromobenzene			50.0	45.3		ug/L		91	80 - 120	1	20
Chlorobromomethane			50.0	42.4		ug/L		85	78 - 123	2	20
Dichlorobromomethane			50.0	49.3		ug/L		99	79 - 125	2	20
Bromoform			50.0	44.3		ug/L		89	66 - 130	0	20
Bromomethane			50.0	26.8		ug/L		54	53 - 141	1	20
2-Butanone (MEK)			250	247		ug/L		99	56 - 143	1	20
n-Butylbenzene			50.0	53.2		ug/L		106	75 - 128	8	20
sec-Butylbenzene			50.0	50.5		ug/L		101	77 - 126	8	20
tert-Butylbenzene			50.0	49.8		ug/L		100	78 - 124	6	20
Carbon disulfide			50.0	46.3		ug/L		93	64 - 133	4	20
Carbon tetrachloride			50.0	57.7		ug/L		115	72 - 136	8	20
Chlorobenzene			50.0	45.6		ug/L		91	82 - 118	0	20
Chloroethane			50.0	41.4		ug/L		83	60 - 138	12	20
Chloroform			50.0	48.3		ug/L		97	79 - 124	1	20
Chloromethane			50.0	43.9		ug/L		88	50 - 139	1	20
2-Chlorotoluene			50.0	46.1		ug/L		92	79 - 122	1	20
4-Chlorotoluene			50.0	45.4		ug/L		91	78 - 122	1	20
Chlorodibromomethane			50.0	46.7		ug/L		93	74 - 126	1	20
1,2-Dibromo-3-Chloropropane			50.0	46.1		ug/L		92	62 - 128	0	20
Ethylene Dibromide			50.0	48.7		ug/L		97	75 - 127	2	20
Dibromomethane			50.0	45.2		ug/L		90	79 - 123	3	20
1,2-Dichlorobenzene			50.0	47.5		ug/L		95	80 - 119	0	20
1,3-Dichlorobenzene			50.0	47.5		ug/L		95	80 - 119	0	20
1,4-Dichlorobenzene			50.0	47.1		ug/L		94	79 - 118	0	20
Dichlorodifluoromethane			50.0	52.7		ug/L		105	32 - 152	15	20
1,1-Dichloroethane			50.0	45.7		ug/L		91	77 - 125	1	20
1,2-Dichloroethane			50.0	51.1		ug/L		102	73 - 128	2	20
cis-1,2-Dichloroethene			50.0	45.0		ug/L		90	78 - 123	1	20
trans-1,2-Dichloroethene			50.0	48.4		ug/L		97	75 - 124	1	20
1,2-Dichloroethene, Total			100	93.4		ug/L		93	79 - 121	0	20
1,1-Dichloroethene			50.0	48.2		ug/L		96	71 - 131	6	20
1,2-Dichloropropane			50.0	47.8		ug/L		96	78 - 122	2	20
1,3-Dichloropropane			50.0	46.9		ug/L		94	80 - 119	3	20
2,2-Dichloropropane			50.0	56.0		ug/L		112	60 - 139	1	20
1,1-Dichloropropene			50.0	57.9		ug/L		116	79 - 125	5	20
cis-1,3-Dichloropropene			50.0	49.9		ug/L		100	75 - 124	3	20
trans-1,3-Dichloropropene			50.0	49.4		ug/L		99	73 - 127	3	20
Ethylbenzene			50.0	47.6		ug/L		95	79 - 121	2	20
Hexachlorobutadiene			50.0	56.6		ug/L		113	66 - 134	12	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-866666/5
Matrix: Water
Analysis Batch: 866666

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
2-Hexanone			250	243		ug/L		97	57 - 139	1	20
Isopropylbenzene			50.0	49.3		ug/L		99	72 - 131	5	20
4-Isopropyltoluene			50.0	52.5		ug/L		105	77 - 127	6	20
Methylene Chloride			50.0	45.0		ug/L		90	74 - 124	3	20
4-Methyl-2-pentanone (MIBK)			250	229		ug/L		92	67 - 130	2	20
Methyl tert-butyl ether			50.0	52.3		ug/L		105	71 - 124	4	20
Naphthalene			50.0	49.1		ug/L		98	61 - 128	2	20
N-Propylbenzene			50.0	48.1		ug/L		96	76 - 126	4	20
Styrene			50.0	45.6		ug/L		91	78 - 123	1	20
1,1,1,2-Tetrachloroethane			50.0	49.8		ug/L		100	78 - 124	1	20
1,1,2,2-Tetrachloroethane			50.0	47.1		ug/L		94	71 - 121	0	20
Tetrachloroethene			50.0	52.9		ug/L		106	74 - 129	6	20
Toluene			50.0	46.2		ug/L		92	80 - 121	0	20
1,2,3-Trichlorobenzene			50.0	49.7		ug/L		99	69 - 129	4	20
1,2,4-Trichlorobenzene			50.0	49.5		ug/L		99	69 - 130	3	20
1,1,1-Trichloroethane			50.0	56.6		ug/L		113	74 - 131	4	20
1,1,2-Trichloroethane			50.0	47.2		ug/L		94	80 - 119	1	20
Trichloroethene			50.0	51.0		ug/L		102	79 - 123	2	20
Trichlorofluoromethane			50.0	59.7		ug/L		119	65 - 141	10	20
1,2,3-Trichloropropane			50.0	47.7		ug/L		95	73 - 122	0	20
1,2,4-Trimethylbenzene			50.0	47.9		ug/L		96	76 - 124	2	20
1,3,5-Trimethylbenzene			50.0	49.1		ug/L		98	75 - 124	3	20
Vinyl acetate			100	159	Q	ug/L		159	54 - 146	5	20
Vinyl chloride			50.0	44.3		ug/L		89	58 - 137	6	20
o-Xylene			50.0	46.1		ug/L		92	78 - 122	0	20
m-Xylene & p-Xylene			50.0	47.1		ug/L		94	80 - 121	2	20
Xylenes, Total			100	93.2		ug/L		93	79 - 121	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*110*		*81 - 118*
4-Bromofluorobenzene (Surr)	*105*		*85 - 114*
Dibromofluoromethane (Surr)	*100*		*80 - 119*

Lab Sample ID: MB 680-866678/8
Matrix: Water
Analysis Batch: 866678

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	10	U	25	10	3.7	ug/L		11/28/24 13:06	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 13:06	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/28/24 13:06	1
Chlorobromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 13:06	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/28/24 13:06	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/28/24 13:06	1
Bromomethane	10	U	20	10	3.7	ug/L		11/28/24 13:06	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/28/24 13:06	1
n-Butylbenzene	2.0	U	2.5	2.0	0.52	ug/L		11/28/24 13:06	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-866678/8
Matrix: Water
Analysis Batch: 866678

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/28/24 13:06	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 13:06	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 13:06	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/28/24 13:06	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/28/24 13:06	1
Chloroethane	10	U	20	10	4.6	ug/L		11/28/24 13:06	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 13:06	1
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/28/24 13:06	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/28/24 13:06	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/28/24 13:06	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/28/24 13:06	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/28/24 13:06	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:06	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 13:06	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 13:06	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 13:06	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 13:06	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 13:06	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:06	1
1,2-Dichloroethane	1.0	U	2.0	1.0	0.25	ug/L		11/28/24 13:06	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/28/24 13:06	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 13:06	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/28/24 13:06	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:06	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/28/24 13:06	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 13:06	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/28/24 13:06	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/28/24 13:06	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 13:06	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/28/24 13:06	1
Ethylbenzene	0.50	U	1.0	0.50	0.20	ug/L		11/28/24 13:06	1
Hexachlorobutadiene	1.0	U	5.0	1.0	0.22	ug/L		11/28/24 13:06	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/28/24 13:06	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 13:06	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/28/24 13:06	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/28/24 13:06	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/28/24 13:06	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 13:06	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/28/24 13:06	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/28/24 13:06	1
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 13:06	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 13:06	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/28/24 13:06	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/28/24 13:06	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/28/24 13:06	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 13:06	1
1,2,4-Trichlorobenzene	2.0	U	5.0	2.0	0.53	ug/L		11/28/24 13:06	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/28/24 13:06	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/28/24 13:06	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-866678/8
Matrix: Water
Analysis Batch: 866678

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/28/24 13:06	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:06	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/28/24 13:06	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 13:06	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/28/24 13:06	1
Vinyl acetate	2.0	U	2.5	2.0	0.69	ug/L		11/28/24 13:06	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/28/24 13:06	1
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 13:06	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/28/24 13:06	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/28/24 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*89 - 112*		*11/28/24 13:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*81 - 118*		*11/28/24 13:06*	*1*
4-Bromofluorobenzene (Surr)	*111*		*85 - 114*		*11/28/24 13:06*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 119*		*11/28/24 13:06*	*1*

Lab Sample ID: LCS 680-866678/4
Matrix: Water
Analysis Batch: 866678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	231		ug/L		92	39 - 160
Benzene	50.0	52.5		ug/L		105	79 - 120
Bromobenzene	50.0	48.8		ug/L		98	80 - 120
Chlorobromomethane	50.0	50.3		ug/L		101	78 - 123
Dichlorobromomethane	50.0	57.1		ug/L		114	79 - 125
Bromoform	50.0	46.2		ug/L		92	66 - 130
Bromomethane	50.0	26.0	Q	ug/L		52	53 - 141
2-Butanone (MEK)	250	219		ug/L		88	56 - 143
n-Butylbenzene	50.0	55.3		ug/L		111	75 - 128
sec-Butylbenzene	50.0	53.1		ug/L		106	77 - 126
tert-Butylbenzene	50.0	51.4		ug/L		103	78 - 124
Carbon disulfide	50.0	52.4		ug/L		105	64 - 133
Carbon tetrachloride	50.0	55.0		ug/L		110	72 - 136
Chlorobenzene	50.0	45.4		ug/L		91	82 - 118
Chloroethane	50.0	63.9	M	ug/L		128	60 - 138
Chloroform	50.0	50.5		ug/L		101	79 - 124
Chloromethane	50.0	52.2		ug/L		104	50 - 139
2-Chlorotoluene	50.0	54.1		ug/L		108	79 - 122
4-Chlorotoluene	50.0	53.3		ug/L		107	78 - 122
Chlorodibromomethane	50.0	46.3		ug/L		93	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	43.2		ug/L		86	62 - 128
Ethylene Dibromide	50.0	47.8		ug/L		96	75 - 127
Dibromomethane	50.0	54.3		ug/L		109	79 - 123
1,2-Dichlorobenzene	50.0	49.7		ug/L		99	80 - 119
1,3-Dichlorobenzene	50.0	50.0		ug/L		100	80 - 119
1,4-Dichlorobenzene	50.0	50.7		ug/L		101	79 - 118

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-866678/4
Matrix: Water
Analysis Batch: 866678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	50.0	54.5		ug/L		109	32 - 152
1,1-Dichloroethane	50.0	54.8		ug/L		110	77 - 125
1,2-Dichloroethane	50.0	57.5		ug/L		115	73 - 128
cis-1,2-Dichloroethene	50.0	56.1		ug/L		112	78 - 123
trans-1,2-Dichloroethene	50.0	48.2		ug/L		96	75 - 124
1,2-Dichloroethene, Total	100	104		ug/L		104	79 - 121
1,1-Dichloroethene	50.0	50.4		ug/L		101	71 - 131
1,2-Dichloropropane	50.0	56.7		ug/L		113	78 - 122
1,3-Dichloropropane	50.0	50.3		ug/L		101	80 - 119
2,2-Dichloropropane	50.0	56.7		ug/L		113	60 - 139
1,1-Dichloropropene	50.0	53.8		ug/L		108	79 - 125
cis-1,3-Dichloropropene	50.0	53.7		ug/L		107	75 - 124
trans-1,3-Dichloropropene	50.0	57.5		ug/L		115	73 - 127
Ethylbenzene	50.0	50.9		ug/L		102	79 - 121
Hexachlorobutadiene	50.0	48.6		ug/L		97	66 - 134
2-Hexanone	250	224		ug/L		90	57 - 139
Isopropylbenzene	50.0	58.2		ug/L		116	72 - 131
4-Isopropyltoluene	50.0	52.1		ug/L		104	77 - 127
Methylene Chloride	50.0	53.3		ug/L		107	74 - 124
4-Methyl-2-pentanone (MIBK)	250	253		ug/L		101	67 - 130
Methyl tert-butyl ether	50.0	51.1		ug/L		102	71 - 124
Naphthalene	50.0	48.4		ug/L		97	61 - 128
N-Propylbenzene	50.0	55.1		ug/L		110	76 - 126
Styrene	50.0	53.5		ug/L		107	78 - 123
1,1,1,2-Tetrachloroethane	50.0	49.4		ug/L		99	78 - 124
1,1,2,2-Tetrachloroethane	50.0	51.2		ug/L		102	71 - 121
Tetrachloroethene	50.0	46.4		ug/L		93	74 - 129
Toluene	50.0	50.6		ug/L		101	80 - 121
1,2,3-Trichlorobenzene	50.0	47.6		ug/L		95	69 - 129
1,2,4-Trichlorobenzene	50.0	49.1		ug/L		98	69 - 130
1,1,1-Trichloroethane	50.0	53.7		ug/L		107	74 - 131
1,1,2-Trichloroethane	50.0	49.3		ug/L		99	80 - 119
Trichloroethene	50.0	48.5		ug/L		97	79 - 123
Trichlorofluoromethane	50.0	54.1		ug/L		108	65 - 141
1,2,3-Trichloropropane	50.0	49.1		ug/L		98	73 - 122
1,2,4-Trimethylbenzene	50.0	52.6		ug/L		105	76 - 124
1,3,5-Trimethylbenzene	50.0	52.9		ug/L		106	75 - 124
Vinyl acetate	100	165	Q	ug/L		165	54 - 146
Vinyl chloride	50.0	55.2		ug/L		110	58 - 137
o-Xylene	50.0	53.0		ug/L		106	78 - 122
m-Xylene & p-Xylene	50.0	52.1		ug/L		104	80 - 121
Xylenes, Total	100	105		ug/L		105	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*106*		*81 - 118*
4-Bromofluorobenzene (Surr)	*106*		*85 - 114*
Dibromofluoromethane (Surr)	*101*		*80 - 119*

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-866678/5
Matrix: Water
Analysis Batch: 866678

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
Acetone			250	244		ug/L		98	39 - 160	5	20
Benzene			50.0	52.7		ug/L		105	79 - 120	0	20
Bromobenzene			50.0	49.6		ug/L		99	80 - 120	2	20
Chlorobromomethane			50.0	50.6		ug/L		101	78 - 123	1	20
Dichlorobromomethane			50.0	57.8		ug/L		116	79 - 125	1	20
Bromoform			50.0	47.8		ug/L		96	66 - 130	3	20
Bromomethane			50.0	27.2		ug/L		54	53 - 141	5	20
2-Butanone (MEK)			250	235		ug/L		94	56 - 143	7	20
n-Butylbenzene			50.0	54.6		ug/L		109	75 - 128	1	20
sec-Butylbenzene			50.0	53.1		ug/L		106	77 - 126	0	20
tert-Butylbenzene			50.0	51.8		ug/L		104	78 - 124	1	20
Carbon disulfide			50.0	50.6		ug/L		101	64 - 133	4	20
Carbon tetrachloride			50.0	54.6		ug/L		109	72 - 136	1	20
Chlorobenzene			50.0	45.6		ug/L		91	82 - 118	1	20
Chloroethane			50.0	60.2	M	ug/L		120	60 - 138	6	20
Chloroform			50.0	50.9		ug/L		102	79 - 124	1	20
Chloromethane			50.0	51.2		ug/L		102	50 - 139	2	20
2-Chlorotoluene			50.0	53.6		ug/L		107	79 - 122	1	20
4-Chlorotoluene			50.0	54.1		ug/L		108	78 - 122	2	20
Chlorodibromomethane			50.0	47.5		ug/L		95	74 - 126	2	20
1,2-Dibromo-3-Chloropropane			50.0	44.8		ug/L		90	62 - 128	4	20
Ethylene Dibromide			50.0	49.1		ug/L		98	75 - 127	3	20
Dibromomethane			50.0	55.2		ug/L		110	79 - 123	2	20
1,2-Dichlorobenzene			50.0	50.2		ug/L		100	80 - 119	1	20
1,3-Dichlorobenzene			50.0	50.2		ug/L		100	80 - 119	0	20
1,4-Dichlorobenzene			50.0	50.6		ug/L		101	79 - 118	0	20
Dichlorodifluoromethane			50.0	53.2		ug/L		106	32 - 152	2	20
1,1-Dichloroethane			50.0	54.5		ug/L		109	77 - 125	1	20
1,2-Dichloroethane			50.0	58.3		ug/L		117	73 - 128	1	20
cis-1,2-Dichloroethene			50.0	56.4		ug/L		113	78 - 123	1	20
trans-1,2-Dichloroethene			50.0	48.2		ug/L		96	75 - 124	0	20
1,2-Dichloroethene, Total			100	105		ug/L		105	79 - 121	0	20
1,1-Dichloroethene			50.0	50.5		ug/L		101	71 - 131	0	20
1,2-Dichloropropane			50.0	57.0		ug/L		114	78 - 122	0	20
1,3-Dichloropropane			50.0	51.8		ug/L		104	80 - 119	3	20
2,2-Dichloropropane			50.0	56.2		ug/L		112	60 - 139	1	20
1,1-Dichloropropene			50.0	53.2		ug/L		106	79 - 125	1	20
cis-1,3-Dichloropropene			50.0	53.7		ug/L		107	75 - 124	0	20
trans-1,3-Dichloropropene			50.0	58.3		ug/L		117	73 - 127	1	20
Ethylbenzene			50.0	51.0		ug/L		102	79 - 121	0	20
Hexachlorobutadiene			50.0	48.2		ug/L		96	66 - 134	1	20
2-Hexanone			250	238		ug/L		95	57 - 139	6	20
Isopropylbenzene			50.0	58.5		ug/L		117	72 - 131	0	20
4-Isopropyltoluene			50.0	51.2		ug/L		102	77 - 127	2	20
Methylene Chloride			50.0	53.0		ug/L		106	74 - 124	1	20
4-Methyl-2-pentanone (MIBK)			250	266		ug/L		106	67 - 130	5	20
Methyl tert-butyl ether			50.0	52.8		ug/L		106	71 - 124	3	20
Naphthalene			50.0	50.2		ug/L		100	61 - 128	4	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-866678/5
Matrix: Water
Analysis Batch: 866678

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
N-Propylbenzene			50.0	55.0		ug/L		110	76 - 126	0	20
Styrene			50.0	53.5		ug/L		107	78 - 123	0	20
1,1,1,2-Tetrachloroethane			50.0	50.0		ug/L		100	78 - 124	1	20
1,1,2,2-Tetrachloroethane			50.0	53.1		ug/L		106	71 - 121	4	20
Tetrachloroethene			50.0	46.2		ug/L		92	74 - 129	0	20
Toluene			50.0	50.5		ug/L		101	80 - 121	0	20
1,2,3-Trichlorobenzene			50.0	48.9		ug/L		98	69 - 129	3	20
1,2,4-Trichlorobenzene			50.0	49.8		ug/L		100	69 - 130	1	20
1,1,1-Trichloroethane			50.0	54.4		ug/L		109	74 - 131	1	20
1,1,2-Trichloroethane			50.0	51.1		ug/L		102	80 - 119	4	20
Trichloroethene			50.0	48.7		ug/L		97	79 - 123	0	20
Trichlorofluoromethane			50.0	55.6		ug/L		111	65 - 141	3	20
1,2,3-Trichloropropane			50.0	50.3		ug/L		101	73 - 122	2	20
1,2,4-Trimethylbenzene			50.0	52.4		ug/L		105	76 - 124	0	20
1,3,5-Trimethylbenzene			50.0	53.3		ug/L		107	75 - 124	1	20
Vinyl acetate			100	166	Q	ug/L		166	54 - 146	1	20
Vinyl chloride			50.0	53.1		ug/L		106	58 - 137	4	20
o-Xylene			50.0	53.3		ug/L		107	78 - 122	1	20
m-Xylene & p-Xylene			50.0	52.3		ug/L		105	80 - 121	0	20
Xylenes, Total			100	106		ug/L		106	79 - 121	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*108*		*81 - 118*
4-Bromofluorobenzene (Surr)	*106*		*85 - 114*
Dibromofluoromethane (Surr)	*100*		*80 - 119*

Lab Sample ID: MB 680-866681/8
Matrix: Water
Analysis Batch: 866681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	6.09	J	25	10	3.7	ug/L		11/28/24 13:00	1
Benzene	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 13:00	1
Bromobenzene	0.50	U	1.0	0.50	0.24	ug/L		11/28/24 13:00	1
Chlorobromomethane	1.0	U M	2.0	1.0	0.34	ug/L		11/28/24 13:00	1
Dichlorobromomethane	1.0	U	2.0	1.0	0.25	ug/L		11/28/24 13:00	1
Bromoform	2.0	U	2.5	2.0	0.59	ug/L		11/28/24 13:00	1
Bromomethane	10	U	20	10	3.7	ug/L		11/28/24 13:00	1
2-Butanone (MEK)	20	U	25	20	6.4	ug/L		11/28/24 13:00	1
n-Butylbenzene	2.0	U M	2.5	2.0	0.52	ug/L		11/28/24 13:00	1
sec-Butylbenzene	2.0	U	2.5	2.0	0.53	ug/L		11/28/24 13:00	1
tert-Butylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 13:00	1
Carbon disulfide	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 13:00	1
Carbon tetrachloride	1.0	U	2.0	1.0	0.30	ug/L		11/28/24 13:00	1
Chlorobenzene	0.50	U	1.0	0.50	0.15	ug/L		11/28/24 13:00	1
Chloroethane	10	U	20	10	4.6	ug/L		11/28/24 13:00	1
Chloroform	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 13:00	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-866681/8
Matrix: Water
Analysis Batch: 866681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	2.0	U	2.5	2.0	0.54	ug/L		11/28/24 13:00	1
2-Chlorotoluene	0.50	U	1.0	0.50	0.25	ug/L		11/28/24 13:00	1
4-Chlorotoluene	1.0	U	2.0	1.0	0.41	ug/L		11/28/24 13:00	1
Chlorodibromomethane	1.0	U	2.0	1.0	0.39	ug/L		11/28/24 13:00	1
1,2-Dibromo-3-Chloropropane	5.0	U	10	5.0	1.8	ug/L		11/28/24 13:00	1
Ethylene Dibromide	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:00	1
Dibromomethane	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 13:00	1
1,2-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 13:00	1
1,3-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 13:00	1
1,4-Dichlorobenzene	1.0	U	2.0	1.0	0.31	ug/L		11/28/24 13:00	1
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 13:00	1
1,1-Dichloroethane	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:00	1
1,2-Dichloroethane	1.0	U M	2.0	1.0	0.25	ug/L		11/28/24 13:00	1
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.25	ug/L		11/28/24 13:00	1
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.34	ug/L		11/28/24 13:00	1
1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.37	ug/L		11/28/24 13:00	1
1,1-Dichloroethene	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:00	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.22	ug/L		11/28/24 13:00	1
1,3-Dichloropropane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 13:00	1
2,2-Dichloropropane	1.0	U	2.0	1.0	0.35	ug/L		11/28/24 13:00	1
1,1-Dichloropropene	1.0	U	2.0	1.0	0.28	ug/L		11/28/24 13:00	1
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 13:00	1
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.23	ug/L		11/28/24 13:00	1
Ethylbenzene	0.50	U M	1.0	0.50	0.20	ug/L		11/28/24 13:00	1
Hexachlorobutadiene	1.0	U M	5.0	1.0	0.22	ug/L		11/28/24 13:00	1
2-Hexanone	10	U	20	10	3.2	ug/L		11/28/24 13:00	1
Isopropylbenzene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 13:00	1
4-Isopropyltoluene	1.0	U	2.0	1.0	0.44	ug/L		11/28/24 13:00	1
Methylene Chloride	10	U	20	10	3.2	ug/L		11/28/24 13:00	1
4-Methyl-2-pentanone (MIBK)	10	U	20	10	2.7	ug/L		11/28/24 13:00	1
Methyl tert-butyl ether	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 13:00	1
Naphthalene	5.0	U	10	5.0	2.4	ug/L		11/28/24 13:00	1
N-Propylbenzene	1.0	U	2.0	1.0	0.41	ug/L		11/28/24 13:00	1
Styrene	1.0	U	2.0	1.0	0.27	ug/L		11/28/24 13:00	1
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.36	ug/L		11/28/24 13:00	1
1,1,2,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/28/24 13:00	1
Tetrachloroethene	1.0	U	2.0	1.0	0.35	ug/L		11/28/24 13:00	1
Toluene	1.0	U	2.0	1.0	0.25	ug/L		11/28/24 13:00	1
1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.81	ug/L		11/28/24 13:00	1
1,2,4-Trichlorobenzene	2.0	U M	5.0	2.0	0.53	ug/L		11/28/24 13:00	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.21	ug/L		11/28/24 13:00	1
1,1,2-Trichloroethane	1.0	U	2.0	1.0	0.32	ug/L		11/28/24 13:00	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/28/24 13:00	1
Trichlorofluoromethane	1.0	U	2.0	1.0	0.33	ug/L		11/28/24 13:00	1
1,2,3-Trichloropropane	1.0	U	2.0	1.0	0.48	ug/L		11/28/24 13:00	1
1,2,4-Trimethylbenzene	1.0	U	2.0	1.0	0.43	ug/L		11/28/24 13:00	1
1,3,5-Trimethylbenzene	1.0	U	2.0	1.0	0.28	ug/L		11/28/24 13:00	1
Vinyl acetate	2.0	U M	2.5	2.0	0.69	ug/L		11/28/24 13:00	1
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		11/28/24 13:00	1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-866681/8
Matrix: Water
Analysis Batch: 866681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
o-Xylene	1.0	U	2.0	1.0	0.26	ug/L		11/28/24 13:00	1
m-Xylene & p-Xylene	1.0	U	2.0	1.0	0.49	ug/L		11/28/24 13:00	1
Xylenes, Total	1.0	U	2.0	1.0	0.49	ug/L		11/28/24 13:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*89 - 112*		*11/28/24 13:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*81 - 118*		*11/28/24 13:00*	*1*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*		*11/28/24 13:00*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 119*		*11/28/24 13:00*	*1*

Lab Sample ID: LCS 680-866681/4
Matrix: Water
Analysis Batch: 866681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	246		ug/L		98	39 - 160
Benzene	50.0	48.2		ug/L		96	79 - 120
Bromobenzene	50.0	53.7		ug/L		107	80 - 120
Chlorobromomethane	50.0	48.6		ug/L		97	78 - 123
Dichlorobromomethane	50.0	50.5		ug/L		101	79 - 125
Bromoform	50.0	46.5		ug/L		93	66 - 130
Bromomethane	50.0	53.4		ug/L		107	53 - 141
2-Butanone (MEK)	250	252		ug/L		101	56 - 143
n-Butylbenzene	50.0	45.9		ug/L		92	75 - 128
sec-Butylbenzene	50.0	53.6		ug/L		107	77 - 126
tert-Butylbenzene	50.0	50.3		ug/L		101	78 - 124
Carbon disulfide	50.0	45.7		ug/L		91	64 - 133
Carbon tetrachloride	50.0	49.0		ug/L		98	72 - 136
Chlorobenzene	50.0	49.9		ug/L		100	82 - 118
Chloroethane	50.0	43.6		ug/L		87	60 - 138
Chloroform	50.0	50.2		ug/L		100	79 - 124
Chloromethane	50.0	58.5		ug/L		117	50 - 139
2-Chlorotoluene	50.0	50.4		ug/L		101	79 - 122
4-Chlorotoluene	50.0	52.6		ug/L		105	78 - 122
Chlorodibromomethane	50.0	47.4		ug/L		95	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	47.8	M	ug/L		96	62 - 128
Ethylene Dibromide	50.0	52.6		ug/L		105	75 - 127
Dibromomethane	50.0	48.0		ug/L		96	79 - 123
1,2-Dichlorobenzene	50.0	50.2		ug/L		100	80 - 119
1,3-Dichlorobenzene	50.0	50.9		ug/L		102	80 - 119
1,4-Dichlorobenzene	50.0	48.2		ug/L		96	79 - 118
Dichlorodifluoromethane	50.0	58.6		ug/L		117	32 - 152
1,1-Dichloroethane	50.0	47.4		ug/L		95	77 - 125
1,2-Dichloroethane	50.0	47.8		ug/L		96	73 - 128
cis-1,2-Dichloroethene	50.0	49.3		ug/L		99	78 - 123
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	75 - 124
1,2-Dichloroethene, Total	100	101		ug/L		101	79 - 121
1,1-Dichloroethene	50.0	50.1		ug/L		100	71 - 131

Client: Seres Engineering & Services LLC
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Job ID: 680-258802-1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-866681/4
Matrix: Water
Analysis Batch: 866681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	50.0	47.5		ug/L		95	78 - 122
1,3-Dichloropropane	50.0	52.0		ug/L		104	80 - 119
2,2-Dichloropropane	50.0	47.3	M	ug/L		95	60 - 139
1,1-Dichloropropene	50.0	48.1		ug/L		96	79 - 125
cis-1,3-Dichloropropene	50.0	47.7		ug/L		95	75 - 124
trans-1,3-Dichloropropene	50.0	48.1		ug/L		96	73 - 127
Ethylbenzene	50.0	50.4		ug/L		101	79 - 121
Hexachlorobutadiene	50.0	47.8		ug/L		96	66 - 134
2-Hexanone	250	263		ug/L		105	57 - 139
Isopropylbenzene	50.0	50.2		ug/L		100	72 - 131
4-Isopropyltoluene	50.0	51.8		ug/L		104	77 - 127
Methylene Chloride	50.0	47.6		ug/L		95	74 - 124
4-Methyl-2-pentanone (MIBK)	250	256		ug/L		103	67 - 130
Methyl tert-butyl ether	50.0	49.4		ug/L		99	71 - 124
Naphthalene	50.0	48.1		ug/L		96	61 - 128
N-Propylbenzene	50.0	53.7		ug/L		107	76 - 126
Styrene	50.0	50.4		ug/L		101	78 - 123
1,1,1,2-Tetrachloroethane	50.0	48.8		ug/L		98	78 - 124
1,1,2,2-Tetrachloroethane	50.0	52.7		ug/L		105	71 - 121
Tetrachloroethene	50.0	49.8		ug/L		100	74 - 129
Toluene	50.0	49.4		ug/L		99	80 - 121
1,2,3-Trichlorobenzene	50.0	35.6	M	ug/L		71	69 - 129
1,2,4-Trichlorobenzene	50.0	46.2		ug/L		92	69 - 130
1,1,1-Trichloroethane	50.0	48.9		ug/L		98	74 - 131
1,1,2-Trichloroethane	50.0	48.2		ug/L		96	80 - 119
Trichloroethene	50.0	54.1		ug/L		108	79 - 123
Trichlorofluoromethane	50.0	49.4		ug/L		99	65 - 141
1,2,3-Trichloropropane	50.0	53.7		ug/L		107	73 - 122
1,2,4-Trimethylbenzene	50.0	52.8		ug/L		106	76 - 124
1,3,5-Trimethylbenzene	50.0	52.9		ug/L		106	75 - 124
Vinyl acetate	100	95.1		ug/L		95	54 - 146
Vinyl chloride	50.0	47.0		ug/L		94	58 - 137
o-Xylene	50.0	50.3		ug/L		101	78 - 122
m-Xylene & p-Xylene	50.0	51.4		ug/L		103	80 - 121
Xylenes, Total	100	102		ug/L		102	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*97*		*81 - 118*
4-Bromofluorobenzene (Surr)	*97*		*85 - 114*
Dibromofluoromethane (Surr)	*102*		*80 - 119*

Lab Sample ID: LCSD 680-866681/5
Matrix: Water
Analysis Batch: 866681

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
Acetone	250	257		ug/L		103	39 - 160	5	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-866681/5
Matrix: Water
Analysis Batch: 866681

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
Benzene	50.0	48.1		ug/L		96	79 - 120	0	20
Bromobenzene	50.0	55.1		ug/L		110	80 - 120	3	20
Chlorobromomethane	50.0	48.6		ug/L		97	78 - 123	0	20
Dichlorobromomethane	50.0	50.1		ug/L		100	79 - 125	1	20
Bromoform	50.0	48.0		ug/L		96	66 - 130	3	20
Bromomethane	50.0	48.9		ug/L		98	53 - 141	9	20
2-Butanone (MEK)	250	265		ug/L		106	56 - 143	5	20
n-Butylbenzene	50.0	45.0		ug/L		90	75 - 128	2	20
sec-Butylbenzene	50.0	52.4		ug/L		105	77 - 126	2	20
tert-Butylbenzene	50.0	49.4		ug/L		99	78 - 124	2	20
Carbon disulfide	50.0	44.2		ug/L		88	64 - 133	3	20
Carbon tetrachloride	50.0	47.7		ug/L		95	72 - 136	3	20
Chlorobenzene	50.0	49.0		ug/L		98	82 - 118	2	20
Chloroethane	50.0	42.2		ug/L		84	60 - 138	3	20
Chloroform	50.0	49.9		ug/L		100	79 - 124	1	20
Chloromethane	50.0	55.4		ug/L		111	50 - 139	5	20
2-Chlorotoluene	50.0	51.1		ug/L		102	79 - 122	1	20
4-Chlorotoluene	50.0	52.1		ug/L		104	78 - 122	1	20
Chlorodibromomethane	50.0	47.2		ug/L		94	74 - 126	1	20
1,2-Dibromo-3-Chloropropane	50.0	49.5		ug/L		99	62 - 128	3	20
Ethylene Dibromide	50.0	53.4		ug/L		107	75 - 127	2	20
Dibromomethane	50.0	49.7		ug/L		99	79 - 123	3	20
1,2-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 119	1	20
1,3-Dichlorobenzene	50.0	50.5		ug/L		101	80 - 119	1	20
1,4-Dichlorobenzene	50.0	47.5		ug/L		95	79 - 118	1	20
Dichlorodifluoromethane	50.0	57.6	M	ug/L		115	32 - 152	2	20
1,1-Dichloroethane	50.0	47.1		ug/L		94	77 - 125	1	20
1,2-Dichloroethane	50.0	48.9		ug/L		98	73 - 128	2	20
cis-1,2-Dichloroethene	50.0	48.6		ug/L		97	78 - 123	1	20
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	75 - 124	4	20
1,2-Dichloroethene, Total	100	98.4		ug/L		98	79 - 121	3	20
1,1-Dichloroethene	50.0	48.9		ug/L		98	71 - 131	2	20
1,2-Dichloropropane	50.0	47.3		ug/L		95	78 - 122	0	20
1,3-Dichloropropane	50.0	52.9		ug/L		106	80 - 119	2	20
2,2-Dichloropropane	50.0	47.0		ug/L		94	60 - 139	1	20
1,1-Dichloropropene	50.0	47.1		ug/L		94	79 - 125	2	20
cis-1,3-Dichloropropene	50.0	48.2		ug/L		96	75 - 124	1	20
trans-1,3-Dichloropropene	50.0	48.8		ug/L		98	73 - 127	1	20
Ethylbenzene	50.0	50.0		ug/L		100	79 - 121	1	20
Hexachlorobutadiene	50.0	46.7	M	ug/L		93	66 - 134	2	20
2-Hexanone	250	275		ug/L		110	57 - 139	4	20
Isopropylbenzene	50.0	50.6		ug/L		101	72 - 131	1	20
4-Isopropyltoluene	50.0	51.2		ug/L		102	77 - 127	1	20
Methylene Chloride	50.0	47.1		ug/L		94	74 - 124	1	20
4-Methyl-2-pentanone (MIBK)	250	269		ug/L		108	67 - 130	5	20
Methyl tert-butyl ether	50.0	51.2		ug/L		102	71 - 124	4	20
Naphthalene	50.0	50.1		ug/L		100	61 - 128	4	20
N-Propylbenzene	50.0	53.4		ug/L		107	76 - 126	1	20
Styrene	50.0	50.3		ug/L		101	78 - 123	0	20

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-866681/5
Matrix: Water
Analysis Batch: 866681

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
1,1,1,2-Tetrachloroethane			50.0	48.2		ug/L		96	78 - 124	1	20
1,1,2,2-Tetrachloroethane			50.0	53.6		ug/L		107	71 - 121	2	20
Tetrachloroethene			50.0	48.3		ug/L		97	74 - 129	3	20
Toluene			50.0	49.6		ug/L		99	80 - 121	0	20
1,2,3-Trichlorobenzene			50.0	48.6	Q	ug/L		97	69 - 129	31	20
1,2,4-Trichlorobenzene			50.0	46.6		ug/L		93	69 - 130	1	20
1,1,1-Trichloroethane			50.0	48.0		ug/L		96	74 - 131	2	20
1,1,2-Trichloroethane			50.0	49.4		ug/L		99	80 - 119	2	20
Trichloroethene			50.0	55.8		ug/L		112	79 - 123	3	20
Trichlorofluoromethane			50.0	48.5		ug/L		97	65 - 141	2	20
1,2,3-Trichloropropane			50.0	54.5		ug/L		109	73 - 122	1	20
1,2,4-Trimethylbenzene			50.0	53.2		ug/L		106	76 - 124	1	20
1,3,5-Trimethylbenzene			50.0	53.0		ug/L		106	75 - 124	0	20
Vinyl acetate			100	96.9		ug/L		97	54 - 146	2	20
Vinyl chloride			50.0	45.9		ug/L		92	58 - 137	2	20
o-Xylene			50.0	50.3		ug/L		101	78 - 122	0	20
m-Xylene & p-Xylene			50.0	50.8		ug/L		102	80 - 121	1	20
Xylenes, Total			100	101		ug/L		101	79 - 121	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*89 - 112*
1,2-Dichloroethane-d4 (Surr)	*96*		*81 - 118*
4-Bromofluorobenzene (Surr)	*96*		*85 - 114*
Dibromofluoromethane (Surr)	*103*		*80 - 119*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-866329/5
Matrix: Water
Analysis Batch: 866329

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethane	0.76	U	1.1	0.76	0.30	ug/L		11/26/24 11:50	1
Ethylene	0.71	U	1.0	0.71	0.31	ug/L		11/26/24 11:50	1
Methane	1.2	U M	1.2	1.2	0.57	ug/L		11/26/24 11:50	1

Lab Sample ID: LCS 680-866329/3
Matrix: Water
Analysis Batch: 866329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane			721	707		ug/L		98	74 - 131		
Ethylene			673	656		ug/L		98	72 - 133		
Methane			385	415		ug/L		108	73 - 125		

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 680-866329/4
Matrix: Water
Analysis Batch: 866329

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
Ethane			721	653		ug/L		91	74 - 131	8	30
Ethylene			673	613		ug/L		91	72 - 133	7	30
Methane			385	383		ug/L		100	73 - 125	8	30

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-867518/33
Matrix: Water
Analysis Batch: 867518

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	1.0	0.40	mg/L		12/05/24 20:12	1

Lab Sample ID: LCS 680-867518/34
Matrix: Water
Analysis Batch: 867518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			10.0	9.19	M	mg/L		92	87 - 112		

Lab Sample ID: LCSD 680-867518/35
Matrix: Water
Analysis Batch: 867518

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
Sulfate			10.0	9.10	M	mg/L		91	87 - 112	1	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-865303/1-A
Matrix: Water
Analysis Batch: 865799

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 865303

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	50	U	100	50	20	ug/L		11/21/24 17:36	1
Manganese	5.0	U	10	5.0	1.3	ug/L		11/21/24 17:36	1

Lab Sample ID: LCS 680-865303/2-A
Matrix: Water
Analysis Batch: 865799

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 865303

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			5000	5250		ug/L		105	87 - 115		
Manganese			400	417		ug/L		104	90 - 114		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 680-258802-2 MS
Matrix: Water
Analysis Batch: 865799

Client Sample ID: AOC50-DUP03-FAL24
Prep Type: Dissolved
Prep Batch: 865303

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	2800		5000	7890		ug/L		102	87 - 115
Manganese	14000	J1	400	14200	4	ug/L		-45	90 - 114

Lab Sample ID: 680-258802-2 MSD
Matrix: Water
Analysis Batch: 865799

Client Sample ID: AOC50-DUP03-FAL24
Prep Type: Dissolved
Prep Batch: 865303

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	2800		5000	7780		ug/L		100	87 - 115	1	20
Manganese	14000	J1	400	13700	4	ug/L		-163	90 - 114	3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-865302/1-A
Matrix: Water
Analysis Batch: 865664

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 865302

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	3.0	U	5.0	3.0	0.86	ug/L		11/20/24 17:30	1

Lab Sample ID: LCS 680-865302/2-A
Matrix: Water
Analysis Batch: 865664

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 865302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	103		ug/L		103	84 - 116

Lab Sample ID: 680-258802-2 MS
Matrix: Water
Analysis Batch: 865664

Client Sample ID: AOC50-DUP03-FAL24
Prep Type: Dissolved
Prep Batch: 865302

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	19	J1	100	133		ug/L		113	84 - 116

Lab Sample ID: 680-258802-2 MSD
Matrix: Water
Analysis Batch: 865664

Client Sample ID: AOC50-DUP03-FAL24
Prep Type: Dissolved
Prep Batch: 865302

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	19	J1	100	126		ug/L		106	84 - 116	5	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-865650/4
Matrix: Water
Analysis Batch: 865650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	5.0	U	5.5	5.0	2.2	mg/L		11/20/24 22:00	1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 680-865650/6
Matrix: Water
Analysis Batch: 865650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	250	245		mg/L		98	90 - 112

Lab Sample ID: LCSD 680-865650/31
Matrix: Water
Analysis Batch: 865650

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
Total Alkalinity as CaCO3 to pH 4.5	250	249		mg/L		100	90 - 112	2	30

Lab Sample ID: 680-258802-9 DU
Matrix: Water
Analysis Batch: 865650

Client Sample ID: G6M-13-02X-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	91		89.8		mg/L		1	30

Method: 353.2-1993 R2.0 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-866434/1
Matrix: Water
Analysis Batch: 866434

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.025	U	0.10	0.025	0.010	mg/L		11/26/24 14:33	1

Lab Sample ID: LCS 680-866434/2
Matrix: Water
Analysis Batch: 866434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	0.917		mg/L		92	90 - 110

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 680-865356/1
Matrix: Water
Analysis Batch: 865356

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide	2.0	U	3.0	2.0	1.0	mg/L		11/20/24 08:56	1

Lab Sample ID: LCS 680-865356/2
Matrix: Water
Analysis Batch: 865356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	8.90		mg/L		89	75 - 125

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCSD 680-865356/3
Matrix: Water
Analysis Batch: 865356

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
Sulfide			10.0	9.03		mg/L		90	75 - 125	1	30

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-866889/1
Matrix: Water
Analysis Batch: 866889

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	1.0	0.50	mg/L		12/01/24 13:36	1

Lab Sample ID: LCS 680-866889/2
Matrix: Water
Analysis Batch: 866889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			20.0	20.0		mg/L		100	80 - 120		

Lab Sample ID: LCSD 680-866889/3
Matrix: Water
Analysis Batch: 866889

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
Total Organic Carbon			20.0	19.9		mg/L		100	80 - 120	0	25

Lab Sample ID: 680-258802-2 DU
Matrix: Water
Analysis Batch: 866889

Client Sample ID: AOC50-DUP03-FAL24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	3.6			3.61		mg/L				0.4	25

GC/MS VOA

Analysis Batch: 866305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-3	G6M-02-08X-FAL24	Total/NA	Water	8260D	
680-258802-5	G6M-03-10X-FAL24	Total/NA	Water	8260D	
680-258802-11	XSA-12-96X-FAL24	Total/NA	Water	8260D	
680-258802-13	AOC50-RB05-FAL24	Total/NA	Water	8260D	
MB 680-866305/8	Method Blank	Total/NA	Water	8260D	
LCS 680-866305/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-866305/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 866541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-2	AOC50-DUP03-FAL24	Total/NA	Water	8260D	
680-258802-6	G6M-04-03X-FAL24	Total/NA	Water	8260D	
680-258802-7	G6M-04-04X-FAL24	Total/NA	Water	8260D	
680-258802-8	G6M-04-11X-FAL24	Total/NA	Water	8260D	
680-258802-10	XSA-12-95X-FAL24	Total/NA	Water	8260D	
680-258802-12	XSA-12-98X-FAL24	Total/NA	Water	8260D	
680-258802-14	AOC50-RB06-FAL24	Total/NA	Water	8260D	
680-258802-15	AOC50-Trip Blank	Total/NA	Water	8260D	
680-258802-16	AOC50-RB-07-FAL24	Total/NA	Water	8260D	
MB 680-866541/8	Method Blank	Total/NA	Water	8260D	
LCS 680-866541/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-866541/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 866666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-10	XSA-12-95X-FAL24	Total/NA	Water	8260D	
680-258802-12	XSA-12-98X-FAL24	Total/NA	Water	8260D	
680-258802-14	AOC50-RB06-FAL24	Total/NA	Water	8260D	
680-258802-15	AOC50-Trip Blank	Total/NA	Water	8260D	
680-258802-16	AOC50-RB-07-FAL24	Total/NA	Water	8260D	
MB 680-866666/8	Method Blank	Total/NA	Water	8260D	
LCS 680-866666/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-866666/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 866678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-2	AOC50-DUP03-FAL24	Total/NA	Water	8260D	
680-258802-6	G6M-04-03X-FAL24	Total/NA	Water	8260D	
680-258802-7	G6M-04-04X-FAL24	Total/NA	Water	8260D	
680-258802-8	G6M-04-11X-FAL24	Total/NA	Water	8260D	
MB 680-866678/8	Method Blank	Total/NA	Water	8260D	
LCS 680-866678/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-866678/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 866681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-1	AOC50-DUP01-FAL24	Total/NA	Water	8260D	
680-258802-4	G6M-03-07X-FAL24	Total/NA	Water	8260D	
680-258802-9	G6M-13-02X-FAL24	Total/NA	Water	8260D	
MB 680-866681/8	Method Blank	Total/NA	Water	8260D	
LCS 680-866681/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 866681 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-866681/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC VOA

Analysis Batch: 866329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-2	AOC50-DUP03-FAL24	Total/NA	Water	RSK-175	
680-258802-3	G6M-02-08X-FAL24	Total/NA	Water	RSK-175	
680-258802-4	G6M-03-07X-FAL24	Total/NA	Water	RSK-175	
680-258802-6	G6M-04-03X-FAL24	Total/NA	Water	RSK-175	
680-258802-9	G6M-13-02X-FAL24	Total/NA	Water	RSK-175	
MB 680-866329/5	Method Blank	Total/NA	Water	RSK-175	
LCS 680-866329/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-866329/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 867518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-2	AOC50-DUP03-FAL24	Total/NA	Water	9056A	
680-258802-3	G6M-02-08X-FAL24	Total/NA	Water	9056A	
680-258802-4	G6M-03-07X-FAL24	Total/NA	Water	9056A	
680-258802-6	G6M-04-03X-FAL24	Total/NA	Water	9056A	
680-258802-9	G6M-13-02X-FAL24	Total/NA	Water	9056A	
MB 680-867518/33	Method Blank	Total/NA	Water	9056A	
LCS 680-867518/34	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-867518/35	Lab Control Sample Dup	Total/NA	Water	9056A	

Metals

Prep Batch: 865302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-1	AOC50-DUP01-FAL24	Dissolved	Water	3005A	
680-258802-2	AOC50-DUP03-FAL24	Dissolved	Water	3005A	
680-258802-3	G6M-02-08X-FAL24	Dissolved	Water	3005A	
680-258802-4	G6M-03-07X-FAL24	Dissolved	Water	3005A	
680-258802-5	G6M-03-10X-FAL24	Dissolved	Water	3005A	
680-258802-6	G6M-04-03X-FAL24	Dissolved	Water	3005A	
680-258802-7	G6M-04-04X-FAL24	Dissolved	Water	3005A	
680-258802-8	G6M-04-11X-FAL24	Dissolved	Water	3005A	
680-258802-9	G6M-13-02X-FAL24	Dissolved	Water	3005A	
680-258802-10	XSA-12-95X-FAL24	Dissolved	Water	3005A	
680-258802-11	XSA-12-96X-FAL24	Dissolved	Water	3005A	
680-258802-12	XSA-12-98X-FAL24	Dissolved	Water	3005A	
680-258802-13	AOC50-RB05-FAL24	Dissolved	Water	3005A	
680-258802-14	AOC50-RB06-FAL24	Dissolved	Water	3005A	
680-258802-16	AOC50-RB-07-FAL24	Dissolved	Water	3005A	
MB 680-865302/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-865302/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-258802-2 MS	AOC50-DUP03-FAL24	Dissolved	Water	3005A	
680-258802-2 MSD	AOC50-DUP03-FAL24	Dissolved	Water	3005A	

Metals

Prep Batch: 865303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-1	AOC50-DUP01-FAL24	Dissolved	Water	3005A	
680-258802-2	AOC50-DUP03-FAL24	Dissolved	Water	3005A	
680-258802-3	G6M-02-08X-FAL24	Dissolved	Water	3005A	
680-258802-4	G6M-03-07X-FAL24	Dissolved	Water	3005A	
680-258802-5	G6M-03-10X-FAL24	Dissolved	Water	3005A	
680-258802-6	G6M-04-03X-FAL24	Dissolved	Water	3005A	
680-258802-7	G6M-04-04X-FAL24	Dissolved	Water	3005A	
680-258802-8	G6M-04-11X-FAL24	Dissolved	Water	3005A	
680-258802-9	G6M-13-02X-FAL24	Dissolved	Water	3005A	
680-258802-10	XSA-12-95X-FAL24	Dissolved	Water	3005A	
680-258802-11	XSA-12-96X-FAL24	Dissolved	Water	3005A	
680-258802-12	XSA-12-98X-FAL24	Dissolved	Water	3005A	
680-258802-13	AOC50-RB05-FAL24	Dissolved	Water	3005A	
680-258802-14	AOC50-RB06-FAL24	Dissolved	Water	3005A	
680-258802-16	AOC50-RB-07-FAL24	Dissolved	Water	3005A	
MB 680-865303/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-865303/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-258802-2 MS	AOC50-DUP03-FAL24	Dissolved	Water	3005A	
680-258802-2 MSD	AOC50-DUP03-FAL24	Dissolved	Water	3005A	

Analysis Batch: 865664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-1	AOC50-DUP01-FAL24	Dissolved	Water	6020A	865302
680-258802-2	AOC50-DUP03-FAL24	Dissolved	Water	6020A	865302
680-258802-3	G6M-02-08X-FAL24	Dissolved	Water	6020A	865302
680-258802-4	G6M-03-07X-FAL24	Dissolved	Water	6020A	865302
680-258802-5	G6M-03-10X-FAL24	Dissolved	Water	6020A	865302
680-258802-6	G6M-04-03X-FAL24	Dissolved	Water	6020A	865302
680-258802-7	G6M-04-04X-FAL24	Dissolved	Water	6020A	865302
680-258802-8	G6M-04-11X-FAL24	Dissolved	Water	6020A	865302
680-258802-9	G6M-13-02X-FAL24	Dissolved	Water	6020A	865302
680-258802-10	XSA-12-95X-FAL24	Dissolved	Water	6020A	865302
680-258802-11	XSA-12-96X-FAL24	Dissolved	Water	6020A	865302
680-258802-12	XSA-12-98X-FAL24	Dissolved	Water	6020A	865302
680-258802-13	AOC50-RB05-FAL24	Dissolved	Water	6020A	865302
680-258802-14	AOC50-RB06-FAL24	Dissolved	Water	6020A	865302
680-258802-16	AOC50-RB-07-FAL24	Dissolved	Water	6020A	865302
MB 680-865302/1-A	Method Blank	Total Recoverable	Water	6020A	865302
LCS 680-865302/2-A	Lab Control Sample	Total Recoverable	Water	6020A	865302
680-258802-2 MS	AOC50-DUP03-FAL24	Dissolved	Water	6020A	865302
680-258802-2 MSD	AOC50-DUP03-FAL24	Dissolved	Water	6020A	865302

Analysis Batch: 865799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-1	AOC50-DUP01-FAL24	Dissolved	Water	6010C	865303
680-258802-2	AOC50-DUP03-FAL24	Dissolved	Water	6010C	865303
680-258802-3	G6M-02-08X-FAL24	Dissolved	Water	6010C	865303
680-258802-4	G6M-03-07X-FAL24	Dissolved	Water	6010C	865303
680-258802-5	G6M-03-10X-FAL24	Dissolved	Water	6010C	865303
680-258802-6	G6M-04-03X-FAL24	Dissolved	Water	6010C	865303
680-258802-7	G6M-04-04X-FAL24	Dissolved	Water	6010C	865303

Metals (Continued)

Analysis Batch: 865799 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-8	G6M-04-11X-FAL24	Dissolved	Water	6010C	865303
680-258802-9	G6M-13-02X-FAL24	Dissolved	Water	6010C	865303
680-258802-10	XSA-12-95X-FAL24	Dissolved	Water	6010C	865303
680-258802-11	XSA-12-96X-FAL24	Dissolved	Water	6010C	865303
680-258802-12	XSA-12-98X-FAL24	Dissolved	Water	6010C	865303
680-258802-13	AOC50-RB05-FAL24	Dissolved	Water	6010C	865303
680-258802-14	AOC50-RB06-FAL24	Dissolved	Water	6010C	865303
680-258802-16	AOC50-RB-07-FAL24	Dissolved	Water	6010C	865303
MB 680-865303/1-A	Method Blank	Total Recoverable	Water	6010C	865303
LCS 680-865303/2-A	Lab Control Sample	Total Recoverable	Water	6010C	865303
680-258802-2 MS	AOC50-DUP03-FAL24	Dissolved	Water	6010C	865303
680-258802-2 MSD	AOC50-DUP03-FAL24	Dissolved	Water	6010C	865303

General Chemistry

Analysis Batch: 865356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-2	AOC50-DUP03-FAL24	Total/NA	Water	9034	
680-258802-3	G6M-02-08X-FAL24	Total/NA	Water	9034	
680-258802-4	G6M-03-07X-FAL24	Total/NA	Water	9034	
680-258802-6	G6M-04-03X-FAL24	Total/NA	Water	9034	
680-258802-9	G6M-13-02X-FAL24	Total/NA	Water	9034	
MB 680-865356/1	Method Blank	Total/NA	Water	9034	
LCS 680-865356/2	Lab Control Sample	Total/NA	Water	9034	
LCSD 680-865356/3	Lab Control Sample Dup	Total/NA	Water	9034	

Analysis Batch: 865650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-2	AOC50-DUP03-FAL24	Total/NA	Water	2320B-2011	
680-258802-3	G6M-02-08X-FAL24	Total/NA	Water	2320B-2011	
680-258802-4	G6M-03-07X-FAL24	Total/NA	Water	2320B-2011	
680-258802-6	G6M-04-03X-FAL24	Total/NA	Water	2320B-2011	
680-258802-9	G6M-13-02X-FAL24	Total/NA	Water	2320B-2011	
MB 680-865650/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-865650/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-865650/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-258802-9 DU	G6M-13-02X-FAL24	Total/NA	Water	2320B-2011	

Analysis Batch: 866434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-2	AOC50-DUP03-FAL24	Total/NA	Water	353.2-1993 R2.0	
680-258802-3	G6M-02-08X-FAL24	Total/NA	Water	353.2-1993 R2.0	
680-258802-4	G6M-03-07X-FAL24	Total/NA	Water	353.2-1993 R2.0	
680-258802-6	G6M-04-03X-FAL24	Total/NA	Water	353.2-1993 R2.0	
680-258802-9	G6M-13-02X-FAL24	Total/NA	Water	353.2-1993 R2.0	
MB 680-866434/1	Method Blank	Total/NA	Water	353.2-1993 R2.0	
LCS 680-866434/2	Lab Control Sample	Total/NA	Water	353.2-1993 R2.0	

Analysis Batch: 866889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-2	AOC50-DUP03-FAL24	Total/NA	Water	9060A	

General Chemistry (Continued)

Analysis Batch: 866889 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258802-3	G6M-02-08X-FAL24	Total/NA	Water	9060A	
680-258802-4	G6M-03-07X-FAL24	Total/NA	Water	9060A	
680-258802-6	G6M-04-03X-FAL24	Total/NA	Water	9060A	
680-258802-9	G6M-13-02X-FAL24	Total/NA	Water	9060A	
MB 680-866889/1	Method Blank	Total/NA	Water	9060A	
LCS 680-866889/2	Lab Control Sample	Total/NA	Water	9060A	
LCSD 680-866889/3	Lab Control Sample Dup	Total/NA	Water	9060A	
680-258802-2 DU	AOC50-DUP03-FAL24	Total/NA	Water	9060A	

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258802-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: AOC50-DUP01-FAL24
Lab Sample ID: 680-258802-1
Date Collected: 11/14/24 13:20
Matrix: Water
Date Received: 11/19/24 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	866681	11/28/24 13:21	UI	EET SAV
	Instrument ID: CMSAJ									
Dissolved	Prep	3005A			25 mL	25 mL	865303	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 18:57	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	865302	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 18:18	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: AOC50-DUP03-FAL24
Lab Sample ID: 680-258802-2
Date Collected: 11/14/24 11:15
Matrix: Water
Date Received: 11/19/24 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	866541	11/27/24 13:47	P1C	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D		1	5 mL	5 mL	866678	11/28/24 13:35	UI	EET SAV
	Instrument ID: CMSU									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	866329	11/26/24 16:30	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		1	2 mL	2 mL	867518	12/05/24 21:01	AF	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	865303	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 17:42	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	865302	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 17:34	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865650	11/20/24 23:58	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	866434	11/26/24 15:52	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	300 mL	300 mL	865356	11/20/24 08:56	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	866889	11/27/24 07:29	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: G6M-02-08X-FAL24
Lab Sample ID: 680-258802-3
Date Collected: 11/13/24 15:15
Matrix: Water
Date Received: 11/19/24 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	866305	11/26/24 18:57	MLL	EET SAV
	Instrument ID: CMSU									

Client Sample ID: G6M-02-08X-FAL24

Lab Sample ID: 680-258802-3

Date Collected: 11/13/24 15:15

Matrix: Water

Date Received: 11/19/24 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	RSK-175		1	17 mL	17 mL	866329	11/26/24 16:40	OK	EET SAV
Total/NA	Analysis	9056A		1	2 mL	2 mL	867518	12/05/24 21:09	AF	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	865303	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 18:02	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	865302	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 17:48	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865650	11/21/24 00:07	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	866434	11/26/24 15:50	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	280 mL	280 mL	865356	11/20/24 08:56	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	866889	11/27/24 08:02	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: G6M-03-07X-FAL24

Lab Sample ID: 680-258802-4

Date Collected: 11/14/24 16:00

Matrix: Water

Date Received: 11/19/24 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	866681	11/28/24 13:43	UI	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	866329	11/26/24 16:50	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		1	2 mL	2 mL	867518	12/05/24 21:17	AF	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	865303	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 17:56	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	865302	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 17:44	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865650	11/21/24 00:16	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	866434	11/26/24 15:48	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	290 mL	290 mL	865356	11/20/24 08:56	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	866889	11/27/24 08:19	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: G6M-03-10X-FAL24
Lab Sample ID: 680-258802-5
Date Collected: 11/13/24 15:00
Matrix: Water
Date Received: 11/19/24 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	866305	11/26/24 19:20	MLL	EET SAV
	Instrument ID: CMSU									
Dissolved	Prep	3005A			25 mL	25 mL	865303	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 17:59	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	865302	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 17:46	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: G6M-04-03X-FAL24
Lab Sample ID: 680-258802-6
Date Collected: 11/14/24 10:40
Matrix: Water
Date Received: 11/19/24 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	866541	11/27/24 14:30	P1C	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D		1	5 mL	5 mL	866678	11/28/24 13:58	UI	EET SAV
	Instrument ID: CMSU									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	866329	11/26/24 16:59	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		1	2 mL	2 mL	867518	12/05/24 21:26	AF	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	865303	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 18:10	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	865302	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 17:54	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865650	11/21/24 01:07	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	866434	11/26/24 15:54	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	9034		1	290 mL	290 mL	865356	11/20/24 08:56	JAS	EET SAV
	Instrument ID: NoEquip									
Total/NA	Analysis	9060A		1	40 mL	40 mL	866889	11/27/24 08:38	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: G6M-04-04X-FAL24
Lab Sample ID: 680-258802-7
Date Collected: 11/14/24 13:20
Matrix: Water
Date Received: 11/19/24 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	866541	11/27/24 14:52	P1C	EET SAV
	Instrument ID: CMSAJ									

Client Sample ID: G6M-04-04X-FAL24
Lab Sample ID: 680-258802-7

Date Collected: 11/14/24 13:20
Matrix: Water
Date Received: 11/19/24 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	866678	11/28/24 14:20	UI	EET SAV
Dissolved	Prep	3005A			25 mL	25 mL	865303	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 18:13	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	865302	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 17:56	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: G6M-04-11X-FAL24
Lab Sample ID: 680-258802-8

Date Collected: 11/14/24 15:25
Matrix: Water
Date Received: 11/19/24 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	866541	11/27/24 15:13	P1C	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D		1	5 mL	5 mL	866678	11/28/24 14:43	UI	EET SAV
	Instrument ID: CMSU									
Dissolved	Prep	3005A			25 mL	25 mL	865303	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 18:16	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	865302	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 17:58	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: G6M-13-02X-FAL24
Lab Sample ID: 680-258802-9

Date Collected: 11/14/24 11:15
Matrix: Water
Date Received: 11/19/24 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	866681	11/28/24 14:04	UI	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	866329	11/26/24 17:09	OK	EET SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9056A		1	2 mL	2 mL	867518	12/05/24 21:34	AF	EET SAV
	Instrument ID: CICR									
Dissolved	Prep	3005A			25 mL	25 mL	865303	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 18:19	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	865302	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 18:00	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			865650	11/21/24 00:47	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	353.2-1993 R2.0		1	2 mL	2 mL	866434	11/26/24 15:54	KD	EET SAV
	Instrument ID: SEAL 1									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258802-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: G6M-13-02X-FAL24
Lab Sample ID: 680-258802-9
Date Collected: 11/14/24 11:15
Matrix: Water
Date Received: 11/19/24 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	9034		1	300 mL	300 mL	865356	11/20/24 08:56	JAS	EET SAV
Total/NA	Analysis	9060A		1	40 mL	40 mL	866889	11/27/24 08:56	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: XSA-12-95X-FAL24
Lab Sample ID: 680-258802-10
Date Collected: 11/15/24 10:40
Matrix: Water
Date Received: 11/19/24 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	866666	11/28/24 13:48	P1C	EET SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	8260D		1	5 mL	5 mL	866541	11/27/24 15:56	P1C	EET SAV
	Instrument ID: CMSAJ									
Dissolved	Prep	3005A			25 mL	25 mL	865303	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 18:22	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	865302	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 18:02	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: XSA-12-96X-FAL24
Lab Sample ID: 680-258802-11
Date Collected: 11/13/24 15:10
Matrix: Water
Date Received: 11/19/24 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	866305	11/26/24 19:42	MLL	EET SAV
	Instrument ID: CMSU									
Dissolved	Prep	3005A			25 mL	25 mL	865303	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 18:25	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	865302	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 18:04	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: XSA-12-98X-FAL24
Lab Sample ID: 680-258802-12
Date Collected: 11/15/24 11:45
Matrix: Water
Date Received: 11/19/24 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	866666	11/28/24 14:10	P1C	EET SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	8260D		1	5 mL	5 mL	866541	11/27/24 16:18	P1C	EET SAV
	Instrument ID: CMSAJ									
Dissolved	Prep	3005A			25 mL	25 mL	865303	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 18:28	BJB	EET SAV
	Instrument ID: ICPH									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258802-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: XSA-12-98X-FAL24
Lab Sample ID: 680-258802-12
Date Collected: 11/15/24 11:45
Matrix: Water
Date Received: 11/19/24 09:56

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	125 mL	865302	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 18:06	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: AOC50-RB05-FAL24
Lab Sample ID: 680-258802-13
Date Collected: 11/13/24 16:00
Matrix: Water
Date Received: 11/19/24 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	866305	11/26/24 17:04	MLL	EET SAV
	Instrument ID: CMSU									
Dissolved	Prep	3005A			25 mL	25 mL	865303	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 18:31	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	865302	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 18:08	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: AOC50-RB06-FAL24
Lab Sample ID: 680-258802-14
Date Collected: 11/14/24 11:10
Matrix: Water
Date Received: 11/19/24 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	866666	11/28/24 14:32	P1C	EET SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	8260D		1	5 mL	5 mL	866541	11/27/24 16:39	P1C	EET SAV
	Instrument ID: CMSAJ									
Dissolved	Prep	3005A			25 mL	25 mL	865303	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 18:34	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	865302	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 18:10	BWR	EET SAV
	Instrument ID: ICPMSG									

Client Sample ID: AOC50-Trip Blank
Lab Sample ID: 680-258802-15
Date Collected: 11/14/24 00:00
Matrix: Water
Date Received: 11/19/24 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	866666	11/28/24 13:26	P1C	EET SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	8260D		1	5 mL	5 mL	866541	11/27/24 12:42	P1C	EET SAV
	Instrument ID: CMSAJ									

Lab Chronicle

Client: Seres Engineering & Services LLC
Job ID: 680-258802-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Client Sample ID: AOC50-RB-07-FAL24
Lab Sample ID: 680-258802-16

Date Collected: 11/15/24 11:30
Matrix: Water
Date Received: 11/19/24 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	866666	11/28/24 14:54	P1C	EET SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	8260D		1	5 mL	5 mL	866541	11/27/24 17:01	P1C	EET SAV
	Instrument ID: CMSAJ									
Dissolved	Prep	3005A			25 mL	25 mL	865303	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6010C		1			865799	11/21/24 18:36	BJB	EET SAV
	Instrument ID: ICPH									
Dissolved	Prep	3005A			25 mL	125 mL	865302	11/20/24 05:28	RR	EET SAV
Dissolved	Analysis	6020A		1			865664	11/20/24 18:12	BWR	EET SAV
	Instrument ID: ICPMSG									

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Seres Engineering & Services LLC
Job ID: 680-258802-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2463	09-22-26

Method Summary

Client: Seres Engineering & Services LLC
Job ID: 680-258802-1
Project/Site: Seres-Arcadis JV, LTM, AOC 50, Fall 2024

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds (GC/MS)	SW846	EET SAV
RSK-175	Dissolved Gases (GC)	RSK	EET SAV
9056A	Anions, Ion Chromatography	SW846	EET SAV
6010C	Metals (ICP)	SW846	EET SAV
6020A	Metals (ICP/MS)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
353.2-1993 R2.0	Nitrogen, Nitrate-Nitrite	MCAWW	EET SAV
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	EET SAV
9060A	Organic Carbon, Total (TOC)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

						Analytical Test Method	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC					
Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024							46	47	8	9	9	29	7	5	10					
	Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler
1	AOC50-DUP01-FAL24	WG	11-14-24	1320	DC					X	X	X				G6M-04-04X	FD1	94.00	104.00	1
2	AOC50-DUP02-FAL24	WG				X	X	X	X	X	X	X	X	X	X	G6M-07-02X	FD1	22.50	27.50	1
3	AOC50-DUP03-FAL24	WG	11-14-24	1115	CS	X	X	X	X	X	X	X	X	X	X	G6M-13-02X	FD1	115.00	125.00	1
4	AOC50-DUP04-FAL24	WG							X	X	X					G6M-95-20X	FD1	18.00	23.00	1
5	G6M-02-01X-FAL24	WG				X	X	X	X	X	X	X	X	X	X	G6M-02-01X	N1	80.00	95.00	1
6	G6M-02-04X-FAL24	WG							X	X	X					G6M-02-04X	N1	90.00	105.00	1
7	G6M-02-06X-FAL24	WG							X	X	X					G6M-02-06X	N1	55.00	65.00	1
8	G6M-02-07X-FAL24	WG							X	X	X					G6M-02-07X	N1	30.00	40.00	1
9	G6M-02-08X-FAL24	WG	11-13-24	1515	DC	X	X	X	X	X	X	X	X	X	X	G6M-02-08X	N1	60.00	70.00	1
10	G6M-02-11X-FAL24	WG							X	X	X					G6M-02-11X	N1	125.00	135.00	1
11	G6M-02-12X-FAL24	WG							X	X	X					G6M-02-12X	N1	125.00	135.00	1

680-258802 Chain of Custody

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/15/24	800		11/15/24	14:44
	11/18/24	10:51		11/18/24	10:51
	11/18/24	15:53	FedEx	11/18/24	15:53
				11/19/24	0956

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Shipping Date:

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2-3/2-3 1.6/1.6

CHAIN-OF-CUSTODY RECORD

Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024

	Sample ID	Matrix	Date	Time	Samp Init.	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
	Analytical Test Method					46	47	8	9	9	29	7	5	10						
12	G6M-02-13X-FAL24	WG							X	X	X				G6M-02-13X	N1	110.00	120.00	1	
13	G6M-03-07X-FAL24	WG	11-14-24	1600	CS	X	X	X	X	X	X	X	X	X	G6M-03-07X	N1	80.00	90.00	1	
14	G6M-03-08X-FAL24	WG							X	X	X				G6M-03-08X	N1	125.00	140.00	1	
15	G6M-03-10X-FAL24	WG	11-13-24	1500	CS				X	X	X				G6M-03-10X	N1	120.00	135.00	1	
16	G6M-04-01X-FAL24	WG							X	X	X				G6M-04-01X	N1	82.00	92.00	1	
17	G6M-04-02X-FAL24	WG				X	X	X	X	X	X	X	X	X	G6M-04-02X	N1	80.00	90.00	1	
18	G6M-04-03X-FAL24	WG	11-14-24	1040	DC	X	X	X	X	X	X	X	X	X	G6M-04-03X	N1	85.00	95.00	1	
19	G6M-04-04X-FAL24	WG	11.14-24	1320	DC				X	X	X				G6M-04-04X	N1	94.00	104.00	1	
20	G6M-04-05X-FAL24	WG									X				G6M-04-05X	N1	100.00	110.00	1	
21	G6M-04-06X-FAL24	WG							X	X	X				G6M-04-06X	N1	95.00	136.00	1	
22	G6M-04-07X-FAL24	WG				X	X	X	X	X	X	X	X	X	G6M-04-07X	N1	120.00	130.00	1	

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/15/24	800		11/15/24	14:44
	11/18/24	10:51		11/18/24	10:51
	11/18/24	15:52	FedEx	11/18/24	15:55
				11/19/24	0956

Shipping Date / Carrier / Airbill Number
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CHAIN-OF-CUSTODY RECORD

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Heather Levesque
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(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC: Ship to:	
WBS Code:		

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

						Analytical Test Method	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC							
Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024							46	47	8	9	9	29	7	5	10							
	Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
23	G6M-04-09X-FAL24	WG				X	X	X	X	X	X	X	X	X		G6M-04-09X	N1	55.00	65.00	1	
24	G6M-04-10A-FAL24	WG				X	X	X	X	X	X	X	X	X		G6M-04-10A	MS1	30.00	40.00	1	
25	G6M-04-10A-FAL24	WG				X	X	X	X	X	X	X	X	X		G6M-04-10A	N1	30.00	40.00	1	
26	G6M-04-10A-FAL24	WG				X	X	X	X	X	X	X	X	X		G6M-04-10A	SD1	30.00	40.00	1	
27	G6M-04-10X-FAL24	WG									X					G6M-04-10X	N1	52.00	62.00	1	
28	G6M-04-11X-FAL24	WG	11-14-24	1525	DC				X	X	X					G6M-04-11X	N1	35.00	45.00	1	
29	G6M-04-13X-FAL24	WG									X					G6M-04-13X	N1	30.00	40.00	1	
30	G6M-04-14X-FAL24	WG							X	X	X					G6M-04-14X	N1	80.00	90.00	1	
31	G6M-04-15X-FAL24	WG							X	X	X					G6M-04-15X	N1	70.00	80.00	1	
32	G6M-04-22X-FAL24	WG							X	X	X					G6M-04-22X	N1	74.00	84.00	1	
33	G6M-04-31X-FAL24	WG							X	X	X					G6M-04-31X	N1	68.00	78.00	1	

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	11/18/24	15:53	Fed Ex	11/18/24	15:53
				11/19/24	0956

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COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method	A2320B (A)	E353.2 (A)	RSK175 (A)	SW6010C/FLDFLT (B)	SW6020A/FLDFLT (B)	SW8260D - VOCs	SW9034 (A)	SW9056A - SO4	SW9060A - TOC	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
							46	47	8	9	9	29	7	5	10						
34	G6M-07-01X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-07-01X	N1	78.00	98.00	1	
35	G6M-07-02X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-07-02X	N1	22.50	27.50	1	
36	G6M-13-01X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-13-01X	N1	125.00	135.00	1	
37	G6M-13-02X-FAL24	WG	11-14-24	1115	CS		X	X	X	X	X	X	X	X	X	G6M-13-02X	N1	115.00	125.00	1	
38	G6M-13-03X-FAL24	WG										X				G6M-13-03X	N1	80.00	90.00	1	
39	G6M-13-04X-FAL24	WG								X	X	X				G6M-13-04X	N1	125.00	135.00	1	
40	G6M-13-05X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-13-05X	N1	45.00	55.00	1	
41	G6M-13-06X-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-13-06X	N1	50.00	60.00	1	
42	G6M-95-19X-FAL24	WG										X				G6M-95-19X	N1	48.00	58.00	1	
43	G6M-95-20X-FAL24	WG								X	X	X				G6M-95-20X	N1	18.00	23.00	1	
44	G6M-97-05B-FAL24	WG					X	X	X	X	X	X	X	X	X	G6M-97-05B	N1	130.00	135.00	1	

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/15/24	800		11/15/24	14:44
	11/18/24	10:51		11/18/24	10:51
	11/18/24	15:53	FedEx	11/18/24	15:53
				11/19/24	0956

Shipping Date / Carrier / Airbill Number
Shipping Date:

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CHAIN-OF-CUSTODY RECORD

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Heather Levesque
669 Marina Drive, Suite B7, Charleston, SC 29492
(843) 619-370-0374, jennifer.singer@arcadis.com

COC # AOC50-FAL24

US Army Corps of Engineers ®

Project Name: Former Fort Devens, Long Term Monitoring	Laboratory: Eurofins Environment Testing TestAmerica, Savannah, GA	Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: A2320B (A) 46	E353.2 (A) 47	RSK175 (A) 8	SW6010C/FLDFLT (B) 9	SW6020A/FLDFLT (B) 9	SW8260D - VOCs 29	SW9034 (A) 7	SW9056A - SO4 5	SW9060A - TOC 10	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
45	G6M-97-28X-FAL24	WG							X	X					G6M-97-28X	N1	100.00	105.00	1	
46	MW-3-FAL24	WG							X	X	X				MW-3	MS1	126.00	136.00	1	
47	MW-3-FAL24	WG							X	X	X				MW-3	N1	126.00	136.00	1	
48	MW-3-FAL24	WG							X	X	X				MW-3	SD1	126.00	136.00	1	
49	MW-7-FAL24	WG							X	X	X				MW-7	N1	6.58	135.00	1	
50	XSA-12-95X-FAL24	WG	11-15-24	1040	DC				X	X	X				XSA-12-95X	N1	120.00	130.00	1	
51	XSA-12-96X-FAL24	WG	11-13-24	1510	AE				X	X	X				XSA-12-96X	N1	120.00	130.00	1	
52	XSA-12-97X-FAL24	WG							X	X	X				XSA-12-97X	N1	120.00	130.00	1	
53	XSA-12-98X-FAL24	WG	11-15-24	1145	CS				X	X	X				XSA-12-98X	N1	60.00	70.00	1	
54	AOC50-RB-05-FAL24		11.13.24	1600	AE				X	X	X									
55	AOC50-RB-06-FAL24		11-14-24	1110	DC				X	X	X									

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	11/15/24	800		11/15/24	14:44
	11/18/24	1855		11/18/24	1851
	11/18/24	1553		11/18/24	1553
				11/19/24	0956

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Project Number: 2312 - 00000001	POC:	
WBS Code:	Ship to:	

Comments:
A2320B (A) = Alkalinity
E353.2 (A) = Nitrite Nitrate as N
RSK175 (A) = Dissolved Gases
SW6010C/FLDFLT (B) = Fe Mn
SW6020A/FLDFLT (B) = As
SW9034 (A) = Sulfide

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
5	1x 125mL plastic, Cool < 6degC
7	2x 250mL plastic, ZnAc/NaOH Cool < 6degC
8	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
9	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
10	1x 250mL, plastic, HNO3, pH < 2; Cool < 6degC
29	3x 40mL glass VOA Vials, HCl, pH < 2; Cool < 6degC
46	1x 250mL, plastic, Cool < 6degC
47	1x 500mL, amber glass, H2SO4; Cool < 6degC

Event: Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024

	Sample ID	Matrix	Date	Time	Samp Init.	A2320B (A) 46	E353.2 (A) 47	RSK175 (A) 8	SW6010C/FLDFLT (B) 9	SW6020A/FLDFLT (B) 9	SW8260D - VOCs 29	SW9034 (A) 7	SW9056A - SO4 5	SW9060A - TOC 10	Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
56	AOC50-TRIP Blank		—	—	—						X								
57	AOC50-RB-07FAL		11-15-24	11:30															
58																			
59																			
60																			
61																			
62																			
63																			
64																			
65																			
66																			

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	11/15/24	800		11/15/24	14:44
	11/18/24	10:51		11/18/24	10:51
	11/18/24	1553		11/18/24	1553
				11/19/24	0956

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Received by Laboratory: *(Signature, Date, Time)* **& condition**

ENV.COC_Field
October 16, 2024

Page 6 of 6

1/23/2025 (Rev. 1)

Login Sample Receipt Checklist

Client: Seres Engineering & Services LLC

Job Number: 680-258802-1

Login Number: 258802
List Number: 1
Creator: Johnson, Corey M

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C

Summary of Quality Control Exceedances and Data Validation Reports

Spring 2024

- The sulfide analysis of samples G6M-04-10A-SPR24-LTM, G6M-07-02X-SPR24-LTM, and G6M-13-05X-SPR24-LTM, and field duplicate sample AOC50-DUP01-SPR24-LTM was performed outside of the method-specified 7-day holding time (analysis: 8 days). The results for sulfide in these samples were qualified as estimated (J/UJ) with a potential for low bias in the reported results.
- The matrix spike (MS)/matrix spike duplicate (MSD) performed using sample G6M-04-10A-SPR24-LTM exhibited MS and MSD recoveries for nitrate-nitrite (as nitrogen) greater the acceptance criteria. In addition, the relative percent difference (RPD) between the MS/MSD recoveries was above the acceptance criteria for nitrate-nitrite (as nitrogen). The nitrate-nitrite (as nitrogen) result in the sample was qualified as estimated (J) with a potential for high bias in the reported results.
- The continuing calibration verification (CCV) associated with VOC analysis exhibited results for 1,2-dibromo-3-chloropropane, 2-butanone, 2-hexanone, 4-methyl-2-pentanone, bromoform, and vinyl chloride below the acceptance criteria. The non-detect results of these compounds in field duplicate sample AOC50-DUP01-SPR24-LTM were qualified as estimated (UJ).
- The CCV associated with VOC analysis exhibited results for 1,2-dibromo-3-chloropropane, 2-butanone, 2-hexanone, 4-methyl-2-pentanone, and bromoform below the acceptance criteria. The non-detect results of these compounds in sample G6M-04-02X-SPR24-LTM were qualified as estimated (UJ).
- The CCV associated with VOC analysis exhibited result for bromoform below the acceptance criteria. The non-detect results of bromoform in samples G6M-13-01X-SPR24-LTM and G6M-97-05B-SPR24-LTM, and trip blank sample AOC50-TB-SPR24-LTM were qualified as estimated (UJ).
- The ending CCV associated with VOC analysis exhibited results for vinyl acetate below the acceptance criteria. The vinyl acetate results in samples G6M-13-01X-SPR24-LTM, G6M-13-02X-SPR24-LTM, and G6M-97-05B-SPR24-LTM, trip blank sample AOC50-TB-SPR24-LTM, and equipment blank sample AOC50-RB01-SPR24-LTM were qualified as estimated (UJ).
- The initial calibration verification (ICV) associated with VOC analysis exhibited result for carbon disulfide below the acceptance criteria The carbon disulfide results in samples G6M-04-07X-SPR24-LTM, G6M-04-10A-SPR24-LTM, G6M-07-02X-SPR24-LTM, G6M-13-02X-SPR24-LTM, and G6M-13-05X-SPR24-LTM, and equipment blank sample AOC50-RB01-SPR24-LTM were qualified as estimated (UJ).
- The ICV associated with VOC analysis exhibited result for carbon disulfide and vinyl acetate below the acceptance criteria The carbon disulfide and vinyl acetate results in sample G6M-04-02X-SPR24-LTM were qualified as estimated (UJ).
- The ICV associated with VOC analysis exhibited result for dichlorodifluoromethane below the acceptance criteria. The dichlorodifluoromethane result in samples G6M-13-01X-SPR24-LTM and G6M-97-05B-SPR24-LTM, and trip blank sample AOC50-TB-SPR24-LTM were qualified as estimated (UJ).
- The VOCs cis-1,2-dichloroethene, tetrachloroethene, and trichloroethene were detected in the equipment blank sample AOC50-RB01-SPR24-LTM. The cis-1,2-dichloroethene result in field duplicate sample AOC50-DUP01-SPR24-LTM was qualified as not detected (U) at the limit of quantitation (LOQ). The tetrachloroethene result in sample G6M-04-07X-SPR24-LTM was qualified

as not detected (U) at the LOQ. The trichloroethene results in samples G6M-13-01X-SPR24-LTM and G6M-13-05X-SPR24-LTM were qualified as not detected (U) at the LOQ. The cis-1,2-dichloroethene and tetrachloroethene results in sample G6M-07-02X-SPR24-LTM were qualified as not detected (U) at the LOQ. The tetrachloroethene and trichloroethene results in samples G6M-13-02X-SPR24-LTM and ZSA-12-96X-SPR24-LTM were qualified as not detected (U) at the LOQ. The cis-1,2-dichloroethene and trichloroethene results in sample G6M-97-05B-SPR24-LTM were qualified as not detected (U) at the LOQ.

- The VOC carbon disulfide was detected in the trip blank AOC50-TB-SPR24-LTM. The carbon disulfide result in sample G6M-04-10A-SPR24-LTM was qualified as not detected (U) at the LOQ.
- The VOCs 1,2,4-trichlorobenzene, hexachlorobutadiene, n-butylbenzene, and o-xylene were detected in the method blank. The 1,2,4-trichlorobenzene, hexachlorobutadiene, and n-butylbenzene results in field duplicate sample AOC50-DUP01-SPR24-LTM were qualified as not detected (U) at the LOQ. The 1,2,4-trichlorobenzene, hexachlorobutadiene, n-butylbenzene, and o-xylene results in samples G6M-04-07X-SPR24-LTM and G6M-07-02X-SPR24-LTM were qualified as not detected (U) at the LOQ. The hexachlorobutadiene and o-xylene results in sample G6M-13-05X-SPR24-LTM were qualified as not detected (U) at the LOQ.
- Nitrate-nitrite (as nitrogen) was detected in the calibration blanks. The nitrate-nitrite as N result in field duplicate sample AOC50-DUP01-SPR24-LTM was qualified as estimated (J). The result may be biased high.

Fall 2024

- The sulfide analysis of samples G6M-02-01X-FAL24, G6M-04-10A-FAL24, and G6M-07-01X-FAL24 was performed outside of the method-specified 7-day holding time (analysis: 10 days). The results for sulfide in these samples were qualified as estimated (UJ) with a potential for low bias in the reported results.
- The differences between the 1,2-dichloroethene and cis-1,2-dichloroethene results in the field duplicate analysis were greater than the acceptance criteria in association with parent sample G6M-13-02X-FAL24 and field duplicate sample AOC50-DUP03-FAL24. The 1,2-dichloroethene and cis-1,2-dichloroethene results in these samples were qualified as estimated (J).
- The MS/MSD performed using sample G6M-04-10A-FAL24 exhibited recoveries for methane below the acceptance criteria and arsenic greater than the acceptance criteria. The methane result in the sample was qualified as estimated (J) with a potential for low bias in the reported results. The arsenic result in the sample was qualified as estimated (J) with a potential for high bias in the reported results.
- The MS/MSD performed using samples G6M-04-10A-FAL24 and G6M-97-05B-FAL24 exhibited MS and MSD recoveries for nitrate-nitrite (as nitrogen) below the acceptance criteria. The nitrate-nitrite (as nitrogen) results in these samples were qualified as estimated (J/UJ) with a potential for low bias in the reported results.
- The ICV associated with VOC analysis exhibited result for vinyl acetate below the acceptance criteria. The non-detect results of vinyl acetate in samples G6M-02-11X-FAL24, G6M04-02X-FAL24, G6M-04-15X-FAL24, G6M-04-22X-FAL24, G6M-04-31X-FAL24, G6M-13-03X-FAL24, G6M-02-01X-FAL24, G6M-02-04X-FAL24, G6M-02-06X-FAL24, and G6M-04-10X-FAL24, G6M-04-13X-FAL24, G6M-07-01X-FAL24, G6M-07-02X-FAL24, G6M-13-01X-FAL24, G6M-13-04X-FAL24, G6M-13-05X-FAL24,

G6M-13-06X-FAL24, G6M-95-19X-FAL24, G6M-95-20X-FAL24, G6M-97-05B-FAL24, MW-3-FAL24, MW-7-FAL24, G6M-02-08X-FAL24, G6M-03-07X-FAL24, G6M-04-03X-FAL24, G6M-04-04X-FAL24, G6M-04-11X-FAL24, G6M-13-02X-FAL24, XSA-12-95X-FAL24, and XSA-12-98X-FAL24, field duplicate samples AOC50-DUP01-FAL24, AOC50-DUP02-FAL24, AOC50-DUP03-FAL24, and AOC50-DUP04-FAL24, trip blank samples Trip Blank and AOC50-Trip Blank, and equipment blank samples AOC50-RB-01-FAL24, AOC50-RB-02-FAL24, AOC50-RB-03-FAL24, AOC50-RB-04-FAL24, AOC50-RB06-FAL24, and AOC50-RB07-FAL24 were qualified as estimated (UJ).

- The ICV and closing CCV associated with VOC analysis exhibited results for vinyl acetate below the acceptance criteria. The non-detect results of vinyl acetate in samples G6M-02-07X-FAL24, G6M-02-12X-FAL24, G6M-02-13X-FAL24, G6M-03-08X-FAL24, G6M-04-01X-FAL24, G6M-04-05X-FAL24, G6M-04-06X-FAL24, G6M-04-07X-FAL24, G6M-04-09X-FAL24, and G6M-04-10A-FAL24 were qualified as estimated (UJ).
- The opening and closing CCV associated with VOC analysis exhibited results for bromomethane below the acceptance criteria. The non-detect results of bromomethane in samples G6M-04-13X-FAL24, G6M-07-02X-FAL24, G6M-13-01X-FAL24, G6M-95-19X-FAL24, G6M-95-20X-FAL24, MW-3-FAL24, and MW-7-FAL24 were qualified as estimated (UJ).
- The CCV associated with VOC analysis exhibited result for bromomethane below the acceptance criteria. The non-detect results of bromomethane in samples G6M-02-08X-FAL24, G6M-03-10X-FAL24, XSA-12-95X-FAL24, XSA-12-96X-FAL24, and XSA-12-98X-FAL24, and equipment blank samples AOC50-RB05-FAL24 and AOC50-RB06-FAL24 were qualified as estimated (UJ).
- The CCV associated with VOC analysis exhibited result for 1,2-dibromo-3-chloropropane below the acceptance criteria. The non-detect results of ,2-dibromo-3-chloropropane in samples G6M-04-03X-FAL24, G6M-04-04X-FAL24, G6M-04-11X-FAL24, XSA-12-95X-FAL24, and XSA-12-98X-FAL24, field duplicate sample AOC50-DUP03-FAL24, trip blank sample AOC50-Trip Blank, and equipment blank samples AOC50-RB06-FAL24 and AOC50-RB-07-FAL24 were qualified as estimated (UJ).
- Toluene was detected in the equipment blanks AOC50-RB-01-FAL24 and AOC50-RB06-FAL24. The toluene results in samples G6M-04-22X-FAL24, G6M-03-07X-FAL24, and G6M-04-03X-FAL24, field duplicate samples AOC50-DUP01-FAL24 and AOC50-DUP03-FAL24 were qualified as not detected (U) at the LOQ.
- Nitrate-nitrite (as nitrogen) was detected in the calibration blanks and method blank. The nitrate-nitrite as N result in samples G6M-04-02X-FAL24 and G6M-02-01X-FAL24, and field duplicate sample AOC50-DUP02-FAL24 were qualified as not detected (U) at the LOQ.

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

ARCADIS U.S., Inc.
3109 West Martin Luther King Jr. Blvd, Suite 350
Tampa, FL 33607
ATTN: Mr. Nathan Mullens
nrmullens@seres-es.com

December 26, 2024

SUBJECT: Fort Devens - Data Validation

Dear Mr. Mullens,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on June 6, 2024. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #59148_A:

SDG #	**Fraction**
680-249958-1	Volatiles, Methane, Ethane, & Ethylene

The data validation was performed under Stage 2B guidelines. The analysis was validated using the following documents, as applicable to each method:

- Quality Assurance Project Plan, Long Term Monitoring Program, Former Fort Devens, 2020
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

286 pages-ADV 3 WEEK TAT

Attachment 1

Stage 2B EQUIS EDD

LDC# 59148 (Arcadis - Millersville, MD / Fort Devens)

LDC	SDG#	DATE REC'D	(2) DATE DUE	VOA (8260D)		Pest. (8081B)		Metals (6010C/20A /7470A)		3 D.Met. (6010C /6020A)		Methane Ethane Ethylene		BTEX (MADEP -VPH		VPH (MADEP -VPH		EPH (MADEP -EPH																	
Matrix: Water/Soil				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	680-249958-1	06/06/24	06/27/24	12	0	-	-	-	-	11	0	9	0	-	-	-	-	-	-																
B	680-249985-1	06/06/24	06/27/24	-	-	-	-	-	-	10	0	-	-	-	-	-	-	-	-																
C	680-250128-1	06/06/24	06/27/24	-	-	-	-	-	-	60	0	-	-	-	-	-	-	-	-																
D	680-250196-1	06/06/24	06/27/24	-	-	5	0	5	0	-	-	-	-	7	0	7	0	5	0																
Total	TR/PG			12	0	5	0	5	0	81	0	9	0	7	0	7	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131

286 pages-ADV 3 WEEK TAT

Attachment 1

Stage 2B EQUIS EDD

LDC# 59148 (Arcadis - Millersville, MD / Fort Devens)

LDC	SDG#	DATE REC'D	(2) DATE DUE	Alk (2320B)		COD (410.4)		CN- (9012B)		Cl (9056A)		DOC (9060A)		NO_3 /NO_2-N (353.2)		SO_4 (9056A)		S= (9034)		TDS (2540C)		TOC (9060A)													
Matrix: Water/Soil				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	680-249958-1	06/06/24	06/27/24	8	0	-	-	-	-	-	-	-	-	8	0	9	0	8	0	-	-	9	0												
B	680-249985-1	06/06/24	06/27/24	10	0	-	-	-	-	10	0	10	0	-	-	10	0	-	-	-	-	-	-												
C	680-250128-1	06/06/24	06/27/24	60	0	-	-	-	-	60	0	60	0	-	-	60	0	-	-	-	-	-	-												
D	680-250196-1	06/06/24	06/27/24	5	0	5	0	5	0	5	0	-	-	5	0	5	0	-	-	5	0	-	-												
Total	TR/PG			83	0	5	0	5	0	75	0	70	0	13	0	84	0	8	0	5	0	9	0	0	0	0	0	0	0	0	0	0	0	0	357

Shaded cells indicate Stage 4 validation (all other cells are Stage 2B validation). These sample counts do not include MS/MSD, and DUPs

US Army Corps of Engineers ®

Project:	Former Fort Devens, Long Term Monitoring
Event:	Seres-Arcadis JV, Long Term Monitoring, AOC 50, Spring 2024
SDG:	680-249958-1
Guidance Document:	Quality Assurance Project Plan, Long Term Monitoring Program, Former Fort Devens, 2020
Prime Contractor:	Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Project Manager:	Jennifer Singer
Contract Laboratory(ies):	Eurofins Environment Testing TestAmerica, Savannah, GA
Data Review Contractor:	Laboratory Data Consultants, Inc.
Data Review Level:	2B
Primary Data Reviewer:	Long Ngo, Environmental Scientist
Date Submitted:	December 26, 2024

Field Sample ID	Lab Sample ID	Matrix	Type/Type Code	A2320B	E353.2	RSK175	SW6010C - Dissolved	SW6020A - Dissolved	SW8260D	SW9034	SW9056A	SW9060A
AOC50-DUP01-SPR24-LTM	680-249958-1	Water	Field Duplicate/FD	X	X	X	X	X	X	X	X	X
AOC50-RB01-SPR24-LTM	680-249958-11	Water	Equipment Blank/EB				X	X	X			
AOC50-TB-SPR24-LTM	680-249958-12	Water	Trip Blank/TB						X			
G6M-04-02X-SPR24-LTM	680-249958-2	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-04-07X-SPR24-LTM	680-249958-3	Water	Field Sample/N			X	X	X	X		X	X
G6M-04-10A-SPR24-LTM	680-249958-4	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-07-02X-SPR24-LTM	680-249958-5	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-13-01X-SPR24-LTM	680-249958-6	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-13-02X-SPR24-LTM	680-249958-7	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-13-05X-SPR24-LTM	680-249958-8	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-97-05B-SPR24-LTM	680-249958-9	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
XSA-12-96X-SPR24-LTM	680-249958-10	Water	Field Sample/N				X	X	X			

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page at 2B data validation level. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Quality Assurance Project Plan, Long Term Monitoring Program, Former Fort Devens, 2020 and the additional guidance documents incorporated by reference to the extent possible. Where definitive guidance is not provided, results have been evaluated in a conservative manner using professional judgment.

Sample collection was managed and directed by Seres - Arcadis SB Joint Venture, LLC, Charleston, SC; analyses were performed by Eurofins Environment Testing TestAmerica, Savannah, GA and were reported under sample delivery group (SDG) 680-249958-1. Data have been evaluated electronically based on electronic data deliverables (EDDs) provided by the laboratory, and hard copy data summary forms have also been reviewed during this effort and compared to the automated review output by the reviewers whose signatures appear on the following page. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative and throughout this report.

All quality control (QC) elements associated with this SDG have been reviewed by a project chemist in accordance with the requirements defined for the project. This review is documented in the attached Data Review Checklists. The QC elements listed below were supported by the electronic deliverable and were evaluated using ADR processes.

- Blank - Negative
- Calibration Blank
- Continuing Calibration Verification
- Equipment Blank
- Field Duplicate RPD
- Interference Check Sample A
- Interference Check Sample A - Negative
- Interference Check Sample AB
- Lab Blank
- LCS Recovery
- LCS RPD
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

Results of the ADR process were subsequently reviewed and updated as applicable by the data review chemists identified on the signature page. Quality control elements that were not included in the electronic deliverable were reviewed manually and findings are documented within this report. Summaries of findings and associated qualified results are documented throughout this report.

A total of 61 results (6.57%) out of the 929 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected or deemed a serious deficiency (X qualifier). Trace values, defined as results that are qualified as estimated because they fall between the detection limit and the reporting limit/limit of quantitation, are not counted as qualified results in the above count. The qualified results are detailed throughout this report and discussed in the narrative below, where appropriate.

Narrative Comments

Analytical Method	Data Reviewer Comment
A2320B	No additional comments; see Checklist for detail.
E353.2	No additional comments; see Checklist for detail.
RSK175	No additional comments; see Checklist for detail.
SW6010C	No additional comments; see Checklist for detail.
SW6020A	No additional comments; see Checklist for detail.
SW8260D	No additional comments; see Checklist for detail.
SW9034	No additional comments; see Checklist for detail.
SW9056A	No additional comments; see Checklist for detail.
SW9060A	No additional comments; see Checklist for detail.



December 26, 2024

Reviewed by Long Ngo, Environmental Scientist, Laboratory Data Consultants, Inc.

As the Reviewer, I certify that I have performed a data review process in accordance with the requirements of the project guidance document, and have compared the electronic data to the laboratory's hard copy report and have verified the consistency of the reported sample results and method quality control data between the two deliverables.

Quality Control Outliers for test method E353.2, Calibration Blank

The purpose of calibration blanks is to determine the existence and magnitude of cross-contamination problems resulting from laboratory activities. Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and contaminants found in calibration blanks are listed below along with any associated qualified results.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
CCB68083662041 (CB) CCB68083662041	Nitrate-Nitrite (as N)	0.0250	< 0.01	< 0.1	mg/l	U/None*	B2	
CCB68083662059 (CB) CCB68083662059	Nitrate-Nitrite (as N)	0.0250	< 0.01	< 0.1	mg/l	U/None*	B2	
CCB68083662080 (CB) CCB68083662080	Nitrate-Nitrite (as N)	0.0210	< 0.01	< 0.1	mg/l	U/None*	B2	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

*Blank flags displayed in the above table identify qualification of the sample result when it is less than or equal to the LOQ/RL. Sample results above the LOD or LOQ will be qualified based on the validation guidance assigned in the project setup.

Qualified Results associated with the Calibration Blank for E353.2

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	Nitrate-Nitrite (as N)	0.100	0.120	0.120 J	+	mg/l	B2

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance. In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method E353.2, MS Recovery

Data for matrix spikes/matrix spike duplicates (MS/MSD) are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. These data alone cannot be used to evaluate the precision and accuracy of individual samples. However, when exercising professional judgment, MS/MSD data can be used in conjunction with other available QC information. Reported results were evaluated to determine compliance with the required acceptance criteria, and summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
G6M-04-10A-SPR24-LTM (MS) 680-249958-4	Nitrate-Nitrite (as N)	137	90 - 110	30 - 110	percent	J/None	M	
G6M-04-10A-SPR24-LTM (SD) 680-249958-4	Nitrate-Nitrite (as N)	122	90 - 110	30 - 110	percent	J/None	M	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the MS Recovery for E353.2

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-04-10A-SPR24-LTM 680-249958-4	N	Nitrate-Nitrite (as N)	0.100	0.0970 J J1	0.0970 J	+	mg/l	D/M/TR

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance. In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method E353.2, MS RPD

The objective of matrix spikes/matrix spike duplicates (MS/MSD) RPD analysis is to demonstrate acceptable method precision by the laboratory at the time of analysis. MS/MSD analyses are also performed to generate data that determines the long-term precision of the analytical method on various matrices. Non-homogenous samples can impact the apparent method precision. Summary forms were evaluated and compared to electronic data deliverables. Matrix spikes/matrix spike duplicates results that were outside of the acceptance criteria are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
G6M-04-10A-SPR24-LTM (SD) 680-249958-4	Nitrate-Nitrite (as N)	10.8	< 10	< 10	rpd	J/UJ	D	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the MS RPD for E353.2

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-04-10A-SPR24-LTM 680-249958-4	N	Nitrate-Nitrite (as N)	0.100	0.0970 J J1	0.0970 J	+	mg/l	D/M/TR

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance. In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method RSK175, LCS RPD

The objective of laboratory control sample/laboratory control sample duplicate (LCS/LCSD) RPD analysis is to demonstrate acceptable method precision by the laboratory at the time of analysis. LCS/LCSD analyses are also performed to generate data that determines the long-term precision of the analytical method on various matrices. Non-homogenous samples can impact the apparent method precision. Summary forms were evaluated and compared to electronic data deliverables. Laboratory control sample/laboratory control sample duplicate RPD results that were outside of the acceptance criteria are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
LCSD6808362094 (BD) LCSD6808362094	Methane	168	< 30	< 30	rpd	J/None	Z	
LCSD6808362097 (BD) LCSD6808362097	Methane	167	< 30	< 30	rpd	J/None	Z	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method RSK175, MS Recovery

Data for matrix spikes/matrix spike duplicates (MS/MSD) are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. These data alone cannot be used to evaluate the precision and accuracy of individual samples. However, when exercising professional judgment, MS/MSD data can be used in conjunction with other available QC information. Reported results were evaluated to determine compliance with the required acceptance criteria, and summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
G6M-04-10A-SPR24-LTM (MS) 680-249958-4	Methane	0.00	73 - 125	10 - 125	percent	J/X	M	Spike amount Insignificant
G6M-04-10A-SPR24-LTM (SD) 680-249958-4	Methane	-580	73 - 125	10 - 125	percent	J/X	M	Spike amount Insignificant

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW6010C, Dissolved, MS Recovery

Data for matrix spikes/matrix spike duplicates (MS/MSD) are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. These data alone cannot be used to evaluate the precision and accuracy of individual samples. However, when exercising professional judgment, MS/MSD data can be used in conjunction with other available QC information. Reported results were evaluated to determine compliance with the required acceptance criteria, and summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
G6M-04-10A-SPR24-LTM (MS) 680-249958-4	Iron	64.0	87 - 115	10 - 125	percent	J/UJ	M	Spike amount Insignificant
G6M-04-10A-SPR24-LTM (SD) 680-249958-4	Iron	76.0	87 - 115	10 - 125	percent	J/UJ	M	Spike amount Insignificant

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260D, Equipment Blank

The purpose of equipment blanks is to determine the existence and magnitude of cross-contamination problems resulting from the process during sampling. Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and contaminants found in equipment blanks are listed below along with any associated qualified results.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
AOC50-RB01-SPR24-LTM (EB) 680-249958-11	2-Butanone (MEK)	11.0	< 6.4	< 25	ug/l	U/None*	V	
AOC50-RB01-SPR24-LTM (EB) 680-249958-11	Acetone	31.0	< 3.7	< 25	ug/l	U/None*	V	
AOC50-RB01-SPR24-LTM (EB) 680-249958-11	cis-1,2-Dichloroethene	0.260	< 0.25	< 2	ug/l	U/None*	V	
AOC50-RB01-SPR24-LTM (EB) 680-249958-11	Tetrachloroethene (PCE)	0.930	< 0.35	< 2	ug/l	U/None*	V	
AOC50-RB01-SPR24-LTM (EB) 680-249958-11	Trichloroethene (TCE)	0.900	< 0.2	< 1	ug/l	U/None*	V	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

*Blank flags displayed in the above table identify qualification of the sample result when it is less than or equal to the LOQ/RL. Sample results above the LOD or LOQ will be qualified based on the validation guidance assigned in the project setup.

Qualified Results associated with the Equipment Blank for SW8260D

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	cis-1,2-Dichloroethene	2.00	0.840 J	2.00 U		ug/l	V
G6M-04-07X-SPR24-LTM 680-249958-3	N	Tetrachloroethene (PCE)	2.00	1.80 J	2.00 U		ug/l	V
G6M-07-02X-SPR24-LTM 680-249958-5	N	cis-1,2-Dichloroethene	2.00	1.10 J	2.00 U		ug/l	V
G6M-07-02X-SPR24-LTM 680-249958-5	N	Tetrachloroethene (PCE)	2.00	0.540 J	2.00 U		ug/l	V
G6M-13-01X-SPR24-LTM 680-249958-6	N	Trichloroethene (TCE)	1.00	0.680 J	1.00 U		ug/l	V
G6M-13-02X-SPR24-LTM 680-249958-7	N	Tetrachloroethene (PCE)	2.00	0.750 J	2.00 U		ug/l	V
G6M-13-02X-SPR24-LTM 680-249958-7	N	Trichloroethene (TCE)	3.50	3.50	3.50 U		ug/l	V
G6M-13-05X-SPR24-LTM 680-249958-8	N	Trichloroethene (TCE)	3.90	3.90	3.90 U		ug/l	V
G6M-97-05B-SPR24-LTM 680-249958-9	N	cis-1,2-Dichloroethene	2.00	1.50 J	2.00 U		ug/l	V
G6M-97-05B-SPR24-LTM 680-249958-9	N	Trichloroethene (TCE)	1.00	0.400 J M	1.00 U		ug/l	V
XSA-12-96X-SPR24-LTM 680-249958-10	N	Tetrachloroethene (PCE)	2.00	1.40 J	2.00 U		ug/l	V

Qualified Results associated with the Equipment Blank for SW8260D

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
XSA-12-96X-SPR24-LTM 680-249958-10	N	Trichloroethene (TCE)	2.40	2.40	2.40 U		ug/l	V

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance. In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method SW8260D, Lab Blank

The purpose of laboratory blanks is to determine the existence and magnitude of cross-contamination problems resulting from laboratory activities. Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and contaminants found in laboratory blanks are listed below along with any associated qualified results.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
MB6808361638 (LB) MB6808361638	1,2,4-Trichlorobenzene	0.658	< 0.53	< 5	ug/l	U/None*	L	
MB6808361638 (LB) MB6808361638	Hexachlorobutadiene	0.659	< 0.22	< 5	ug/l	U/None*	L	
MB6808361638 (LB) MB6808361638	n-Butylbenzene	0.523	< 0.52	< 2.5	ug/l	U/None*	L	
MB6808364738 (LB) MB6808364738	1,2,4-Trichlorobenzene	0.657	< 0.53	< 5	ug/l	U/None*	L	
MB6808364738 (LB) MB6808364738	Hexachlorobutadiene	0.639	< 0.22	< 5	ug/l	U/None*	L	
MB6808364738 (LB) MB6808364738	n-Butylbenzene	0.523	< 0.52	< 2.5	ug/l	U/None*	L	
MB6808364738 (LB) MB6808364738	o-Xylene	0.301	< 0.26	< 2	ug/l	U/None*	L	
MB6808364738 (LB) MB6808364738	Styrene	0.368	< 0.27	< 2	ug/l	U/None*	L	
MB6808366819 (LB) MB6808366819	1,2,4-Trichlorobenzene	0.590	< 0.53	< 5	ug/l	U/None*	L	
MB6808366819 (LB) MB6808366819	Bromobenzene	0.263	< 0.24	< 1	ug/l	U/None*	L	
MB6808366819 (LB) MB6808366819	Hexachlorobutadiene	0.578	< 0.22	< 5	ug/l	U/None*	L	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

*Blank flags displayed in the above table identify qualification of the sample result when it is less than or equal to the LOQ/RL. Sample results above the LOD or LOQ will be qualified based on the validation guidance assigned in the project setup.

Qualified Results associated with the Lab Blank for SW8260D

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	1,2,4-Trichlorobenzene	5.00	0.560 J	5.00 U		ug/l	L
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	Hexachlorobutadiene	5.00	0.470 J	5.00 U		ug/l	L
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	n-Butylbenzene	2.50	0.630 J	2.50 U		ug/l	L
G6M-04-07X-SPR24-LTM 680-249958-3	N	1,2,4-Trichlorobenzene	5.00	0.710 J	5.00 U		ug/l	L
G6M-04-07X-SPR24-LTM 680-249958-3	N	Hexachlorobutadiene	5.00	0.690 J	5.00 U		ug/l	L
G6M-04-07X-SPR24-LTM 680-249958-3	N	n-Butylbenzene	2.50	0.550 J	2.50 U		ug/l	L
G6M-04-07X-SPR24-LTM 680-249958-3	N	o-Xylene	2.00	0.320 J	2.00 U		ug/l	L

Qualified Results associated with the Lab Blank for SW8260D

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-07-02X-SPR24-LTM 680-249958-5	N	1,2,4-Trichlorobenzene	5.00	0.570 J	5.00 U		ug/l	L
G6M-07-02X-SPR24-LTM 680-249958-5	N	Hexachlorobutadiene	5.00	0.500 J	5.00 U		ug/l	L
G6M-07-02X-SPR24-LTM 680-249958-5	N	n-Butylbenzene	2.50	0.610 J	2.50 U		ug/l	L
G6M-07-02X-SPR24-LTM 680-249958-5	N	o-Xylene	2.00	0.470 J	2.00 U		ug/l	L
G6M-13-05X-SPR24-LTM 680-249958-8	N	Hexachlorobutadiene	5.00	0.410 J	5.00 U		ug/l	L
G6M-13-05X-SPR24-LTM 680-249958-8	N	o-Xylene	2.00	0.640 J	2.00 U		ug/l	L

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance. In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method SW8260D, Trip Blank

The purpose of trip blanks is to determine the existence and magnitude of cross-contamination problems resulting from the shipping of samples. Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and contaminants found in trip blanks are listed below along with any associated qualified results.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
AOC50-TB-SPR24-LTM (TB) 680-249958-12	Carbon disulfide	0.660	< 0.43	< 2	ug/l	U/None*	T	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

*Blank flags displayed in the above table identify qualification of the sample result when it is less than or equal to the LOQ/RL. Sample results above the LOD or LOQ will be qualified based on the validation guidance assigned in the project setup.

Qualified Results associated with the Trip Blank for SW8260D

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-04-10A-SPR24-LTM 680-249958-4	N	Carbon disulfide	2.00	0.750 J Q	2.00 UJ		ug/l	T/V1

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance. In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method SW8260D, Continuing Calibration Verification

Compliance requirements for satisfactory continuing calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data. Continuing calibration is performed to verify and evaluate instrument performance during sample analysis. Summary forms were evaluated against project acceptance criteria, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
CCVIS6808361633 (CV) CCVIS6808361633	1,1-Dichloroethene	143	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808361633 (CV) CCVIS6808361633	1,2-Dibromo-3-chloropropane	69.0	80 - 120	80 - 120	percent	J/X	V2	
CCVIS6808361633 (CV) CCVIS6808361633	2,2-Dichloropropane	121	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808361633 (CV) CCVIS6808361633	2-Butanone (MEK)	64.0	80 - 120	80 - 120	percent	J/X	V2	
CCVIS6808361633 (CV) CCVIS6808361633	2-Hexanone	62.0	80 - 120	80 - 120	percent	J/X	V2	
CCVIS6808361633 (CV) CCVIS6808361633	4-Methyl-2-pentanone (MIBK)	66.0	80 - 120	80 - 120	percent	J/X	V2	
CCVIS6808361633 (CV) CCVIS6808361633	Bromoform	68.0	80 - 120	80 - 120	percent	J/X	V2	
CCVIS6808361633 (CV) CCVIS6808361633	Bromomethane	155	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808361633 (CV) CCVIS6808361633	Carbon disulfide	139	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808361633 (CV) CCVIS6808361633	Chloromethane	123	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808361633 (CV) CCVIS6808361633	Dichlorodifluoromethane	145	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808361633 (CV) CCVIS6808361633	trans-1,2-Dichloroethene	122	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808361633 (CV) CCVIS6808361633	Trichlorofluoromethane	141	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808361633 (CV) CCVIS6808361633	Vinyl acetate	161	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808361633 (CV) CCVIS6808361633	Vinyl chloride	125	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808363693 (CV) CCVIS6808363693	Bromomethane	222	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808363693 (CV) CCVIS6808363693	Chloroethane	134	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808363693 (CV) CCVIS6808363693	Vinyl acetate	142	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808364734 (CV) CCVIS6808364734	Vinyl acetate	192	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808366812 (CV) CCVIS6808366812	Carbon disulfide	121	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808366812 (CV) CCVIS6808366812	Vinyl acetate	251	80 - 120	80 - 120	percent	J/None	V2	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the Continuing Calibration Verification for SW8260D

Qualified Results associated with the Continuing Calibration Verification for SW8260D

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	1,2-Dibromo-3-chloropropane	10.0	5.00 U Q	5.00 UJ		ug/l	V2
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	2-Butanone (MEK)	25.0	20.0 U Q	20.0 UJ		ug/l	V2
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	2-Hexanone	20.0	10.0 U Q	10.0 UJ		ug/l	V2
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	4-Methyl-2-pentanone (MIBK)	20.0	10.0 U Q	10.0 UJ		ug/l	V2
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	Bromoform	2.50	2.00 U Q	2.00 UJ		ug/l	V2
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	Vinyl chloride	2.00	1.00 U Q	1.00 UJ		ug/l	V2
AOC50-TB-SPR24-LTM 680-249958-12	TB	Bromoform	2.50	2.00 U Q	2.00 UJ		ug/l	V2
G6M-04-02X-SPR24-LTM 680-249958-2	N	1,2-Dibromo-3-chloropropane	10.0	5.00 U Q	5.00 UJ		ug/l	V2
G6M-04-02X-SPR24-LTM 680-249958-2	N	2-Butanone (MEK)	25.0	20.0 U Q	20.0 UJ		ug/l	V2
G6M-04-02X-SPR24-LTM 680-249958-2	N	2-Hexanone	20.0	10.0 U Q	10.0 UJ		ug/l	V2
G6M-04-02X-SPR24-LTM 680-249958-2	N	4-Methyl-2-pentanone (MIBK)	20.0	10.0 U Q	10.0 UJ		ug/l	V2
G6M-04-02X-SPR24-LTM 680-249958-2	N	Bromoform	2.50	2.00 U Q	2.00 UJ		ug/l	V2
G6M-13-01X-SPR24-LTM 680-249958-6	N	Bromoform	2.50	2.00 U Q	2.00 UJ		ug/l	V2
G6M-97-05B-SPR24-LTM 680-249958-9	N	Bromoform	2.50	2.00 U Q	2.00 UJ		ug/l	V2

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance. In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method SW8260D, Ending Continuing Calibration Verification

Compliance requirements for satisfactory closing continuing calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data. Continuing calibration is performed to verify and evaluate instrument performance during sample analysis. Summary forms were evaluated against project acceptance criteria, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
CCVC68083636929 (EV) CCVC68083636929	Vinyl acetate	40.0	50 - 150	50 - 150	percent	J/X	V5	
CCVC68083668131 (EV) CCVC68083668131	Vinyl acetate	30.0	50 - 150	50 - 150	percent	J/X	V5	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the Ending Continuing Calibration Verification for SW8260D

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-RB01-SPR24-LTM 680-249958-11	EB	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V5
AOC50-TB-SPR24-LTM 680-249958-12	TB	Vinyl acetate	2.50	2.00 U Q M	2.00 UJ		ug/l	V5
G6M-13-01X-SPR24-LTM 680-249958-6	N	Vinyl acetate	2.50	2.00 U Q M	2.00 UJ		ug/l	V5
G6M-13-02X-SPR24-LTM 680-249958-7	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V5
G6M-97-05B-SPR24-LTM 680-249958-9	N	Vinyl acetate	2.50	2.00 U Q M	2.00 UJ		ug/l	V5

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance. In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method SW8260D, LCS Recovery

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Reported results were evaluated to determine compliance with the required acceptance criteria, and summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
LCS6808361634 (BS) LCS6808361634	1,1-Dichloroethene	145	71 - 131	10 - 131	percent	J/None	C	
LCS6808361634 (BS) LCS6808361634	Bromomethane	163	53 - 141	10 - 141	percent	J/None	C	
LCS6808361634 (BS) LCS6808361634	Carbon disulfide	143	64 - 133	10 - 133	percent	J/None	C	
LCS6808361634 (BS) LCS6808361634	trans-1,2-Dichloroethene	125	75 - 124	10 - 124	percent	J/None	C	
LCS6808361634 (BS) LCS6808361634	Trichlorofluoromethane	142	65 - 141	10 - 141	percent	J/None	C	
LCS6808361634 (BS) LCS6808361634	Vinyl acetate	160	54 - 146	10 - 146	percent	J/None	C	
LCS6808363694 (BS) LCS6808363694	Bromomethane	228	53 - 141	10 - 141	percent	J/None	C	
LCS6808364735 (BS) LCS6808364735	Vinyl acetate	173	54 - 146	10 - 146	percent	J/None	C	
LCS6808366814 (BS) LCS6808366814	Vinyl acetate	228	54 - 146	10 - 146	percent	J/None	C	
LCSD6808361635 (BD) LCSD6808361635	1,1-Dichloroethene	134	71 - 131	10 - 131	percent	J/None	C	
LCSD6808361635 (BD) LCSD6808361635	Bromomethane	156	53 - 141	10 - 141	percent	J/None	C	
LCSD6808361635 (BD) LCSD6808361635	Carbon disulfide	134	64 - 133	10 - 133	percent	J/None	C	
LCSD6808361635 (BD) LCSD6808361635	Vinyl acetate	148	54 - 146	10 - 146	percent	J/None	C	
LCSD6808363695 (BD) LCSD6808363695	Bromomethane	228	53 - 141	10 - 141	percent	J/None	C	
LCSD6808364739 (BD) LCSD6808364739	Vinyl acetate	259	54 - 146	10 - 146	percent	J/None	C	
LCSD6808366815 (BD) LCSD6808366815	Vinyl acetate	192	54 - 146	10 - 146	percent	J/None	C	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260D, LCS RPD

The objective of laboratory control sample/laboratory control sample duplicate (LCS/LCSD) RPD analysis is to demonstrate acceptable method precision by the laboratory at the time of analysis. LCS/LCSD analyses are also performed to generate data that determines the long-term precision of the analytical method on various matrices. Non-homogenous samples can impact the apparent method precision. Summary forms were evaluated and compared to electronic data deliverables. Laboratory control sample/laboratory control sample duplicate RPD results that were outside of the acceptance criteria are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
LCSD6808364739 (BD) LCSD6808364739	Vinyl acetate	39.8	< 20	< 20	rpd	J/None	Z	
LCSD6808366815 (BD) LCSD6808366815	Dichlorodifluoromethane	25.0	< 20	< 20	rpd	J/None	Z	
LCSD6808366815 (BD) LCSD6808366815	Trichlorofluoromethane	20.2	< 20	< 20	rpd	J/None	Z	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260D, MS Recovery

Data for matrix spikes/matrix spike duplicates (MS/MSD) are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. These data alone cannot be used to evaluate the precision and accuracy of individual samples. However, when exercising professional judgment, MS/MSD data can be used in conjunction with other available QC information. Reported results were evaluated to determine compliance with the required acceptance criteria, and summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
G6M-04-10A-SPR24-LTM (MS) 680-249958-4	Chloroethane	148	60 - 138	10 - 138	percent	J/None	M	
G6M-04-10A-SPR24-LTM (SD) 680-249958-4	Chloroethane	148	60 - 138	10 - 138	percent	J/None	M	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW9034, Test Hold Time

Hold times are ascertained based on project requirements. Holding times were determined by comparing the chain of custody records with the dates of analysis found in the electronic data deliverable and laboratory summary forms. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
AOC50-DUP01-SPR24-LTM (FD) 680-249958-1		8.17	< 7	< 14	days	J/UJ	H1	Test Exceeds UWL
G6M-04-10A-SPR24-LTM (N) 680-249958-4		8.07	< 7	< 14	days	J/UJ	H1	Test Exceeds UWL
G6M-07-02X-SPR24-LTM (N) 680-249958-5		8.17	< 7	< 14	days	J/UJ	H1	Test Exceeds UWL
G6M-13-05X-SPR24-LTM (N) 680-249958-8		7.96	< 7	< 14	days	J/UJ	H1	Test Exceeds UWL

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the Test Hold Time for SW9034

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	Sulfide	2.10	1.70 U H	1.70 UJ		mg/l	H1
G6M-04-10A-SPR24-LTM 680-249958-4	N	Sulfide	2.10	0.850 J H	0.850 J	-	mg/l	H1/TR
G6M-07-02X-SPR24-LTM 680-249958-5	N	Sulfide	2.20	1.80 U H	1.80 UJ		mg/l	H1
G6M-13-05X-SPR24-LTM 680-249958-8	N	Sulfide	2.00	1.60 J H	1.60 J	-	mg/l	H1/TR

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance. In instances where no LOD is provided, results are reported down to the LOQ.

Table of All Qualified Results

Test Method: E353.2		Extraction Method: NONE						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	Nitrate-Nitrite (as N)	0.100	0.120	0.120 J	+	mg/l	B2
G6M-04-10A-SPR24-LTM 680-249958-4	N	Nitrate-Nitrite (as N)	0.100	0.0970 J J1	0.0970 J	+	mg/l	D/M/TR

Test Method: SW8260D		Extraction Method: SW5030C						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	1,2,4-Trichlorobenzene	5.00	0.560 J	5.00 U		ug/l	L
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	1,2-Dibromo-3-chloropropane	10.0	5.00 U Q	5.00 UJ		ug/l	V2
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	2-Butanone (MEK)	25.0	20.0 U Q	20.0 UJ		ug/l	V2
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	2-Hexanone	20.0	10.0 U Q	10.0 UJ		ug/l	V2
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	4-Methyl-2-pentanone (MIBK)	20.0	10.0 U Q	10.0 UJ		ug/l	V2
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	Bromoform	2.50	2.00 U Q	2.00 UJ		ug/l	V2
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	cis-1,2-Dichloroethene	2.00	0.840 J	2.00 U		ug/l	V
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	Hexachlorobutadiene	5.00	0.470 J	5.00 U		ug/l	L
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	n-Butylbenzene	2.50	0.630 J	2.50 U		ug/l	L
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	Vinyl chloride	2.00	1.00 U Q	1.00 UJ		ug/l	V2
AOC50-RB01-SPR24-LTM 680-249958-11	EB	Carbon disulfide	2.00	1.00 U Q	1.00 UJ		ug/l	V1
AOC50-RB01-SPR24-LTM 680-249958-11	EB	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V5
AOC50-TB-SPR24-LTM 680-249958-12	TB	Bromoform	2.50	2.00 U Q	2.00 UJ		ug/l	V2
AOC50-TB-SPR24-LTM 680-249958-12	TB	Dichlorodifluoromethane	2.00	1.00 U Q	1.00 UJ		ug/l	V1
AOC50-TB-SPR24-LTM 680-249958-12	TB	Vinyl acetate	2.50	2.00 U Q M	2.00 UJ		ug/l	V5
G6M-04-02X-SPR24-LTM 680-249958-2	N	1,2-Dibromo-3-chloropropane	10.0	5.00 U Q	5.00 UJ		ug/l	V2
G6M-04-02X-SPR24-LTM 680-249958-2	N	2-Butanone (MEK)	25.0	20.0 U Q	20.0 UJ		ug/l	V2

Table of All Qualified Results

Test Method: SW8260D		Extraction Method: SW5030C						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-04-02X-SPR24-LTM 680-249958-2	N	2-Hexanone	20.0	10.0 U Q	10.0 UJ		ug/l	V2
G6M-04-02X-SPR24-LTM 680-249958-2	N	4-Methyl-2-pentanone (MIBK)	20.0	10.0 U Q	10.0 UJ		ug/l	V2
G6M-04-02X-SPR24-LTM 680-249958-2	N	Bromoform	2.50	2.00 U Q	2.00 UJ		ug/l	V2
G6M-04-02X-SPR24-LTM 680-249958-2	N	Carbon disulfide	2.00	1.00 U Q	1.00 UJ		ug/l	V1
G6M-04-02X-SPR24-LTM 680-249958-2	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-04-07X-SPR24-LTM 680-249958-3	N	1,2,4-Trichlorobenzene	5.00	0.710 J	5.00 U		ug/l	L
G6M-04-07X-SPR24-LTM 680-249958-3	N	Carbon disulfide	2.00	1.00 U Q	1.00 UJ		ug/l	V1
G6M-04-07X-SPR24-LTM 680-249958-3	N	Hexachlorobutadiene	5.00	0.690 J	5.00 U		ug/l	L
G6M-04-07X-SPR24-LTM 680-249958-3	N	n-Butylbenzene	2.50	0.550 J	2.50 U		ug/l	L
G6M-04-07X-SPR24-LTM 680-249958-3	N	o-Xylene	2.00	0.320 J	2.00 U		ug/l	L
G6M-04-07X-SPR24-LTM 680-249958-3	N	Tetrachloroethene (PCE)	2.00	1.80 J	2.00 U		ug/l	V
G6M-04-10A-SPR24-LTM 680-249958-4	N	Carbon disulfide	2.00	0.750 J Q	2.00 UJ		ug/l	T/V1
G6M-07-02X-SPR24-LTM 680-249958-5	N	1,2,4-Trichlorobenzene	5.00	0.570 J	5.00 U		ug/l	L
G6M-07-02X-SPR24-LTM 680-249958-5	N	Carbon disulfide	2.00	1.00 U Q	1.00 UJ		ug/l	V1
G6M-07-02X-SPR24-LTM 680-249958-5	N	cis-1,2-Dichloroethene	2.00	1.10 J	2.00 U		ug/l	V
G6M-07-02X-SPR24-LTM 680-249958-5	N	Hexachlorobutadiene	5.00	0.500 J	5.00 U		ug/l	L
G6M-07-02X-SPR24-LTM 680-249958-5	N	n-Butylbenzene	2.50	0.610 J	2.50 U		ug/l	L
G6M-07-02X-SPR24-LTM 680-249958-5	N	o-Xylene	2.00	0.470 J	2.00 U		ug/l	L
G6M-07-02X-SPR24-LTM 680-249958-5	N	Tetrachloroethene (PCE)	2.00	0.540 J	2.00 U		ug/l	V
G6M-13-01X-SPR24-LTM 680-249958-6	N	Bromoform	2.50	2.00 U Q	2.00 UJ		ug/l	V2
G6M-13-01X-SPR24-LTM 680-249958-6	N	Dichlorodifluoromethane	2.00	1.00 U Q	1.00 UJ		ug/l	V1
G6M-13-01X-SPR24-LTM 680-249958-6	N	Trichloroethene (TCE)	1.00	0.680 J	1.00 U		ug/l	V
G6M-13-01X-SPR24-LTM 680-249958-6	N	Vinyl acetate	2.50	2.00 U Q M	2.00 UJ		ug/l	V5
G6M-13-02X-SPR24-LTM 680-249958-7	N	Carbon disulfide	2.00	1.00 U Q	1.00 UJ		ug/l	V1
G6M-13-02X-SPR24-LTM 680-249958-7	N	Tetrachloroethene (PCE)	2.00	0.750 J	2.00 U		ug/l	V
G6M-13-02X-SPR24-LTM 680-249958-7	N	Trichloroethene (TCE)	3.50	3.50	3.50 U		ug/l	V
G6M-13-02X-SPR24-LTM 680-249958-7	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V5

Table of All Qualified Results

Test Method: SW8260D		Extraction Method: SW5030C						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-13-05X-SPR24-LTM 680-249958-8	N	Carbon disulfide	2.00	1.00 U Q	1.00 UJ		ug/l	V1
G6M-13-05X-SPR24-LTM 680-249958-8	N	Hexachlorobutadiene	5.00	0.410 J	5.00 U		ug/l	L
G6M-13-05X-SPR24-LTM 680-249958-8	N	o-Xylene	2.00	0.640 J	2.00 U		ug/l	L
G6M-13-05X-SPR24-LTM 680-249958-8	N	Trichloroethene (TCE)	3.90	3.90	3.90 U		ug/l	V
G6M-97-05B-SPR24-LTM 680-249958-9	N	Bromoform	2.50	2.00 U Q	2.00 UJ		ug/l	V2
G6M-97-05B-SPR24-LTM 680-249958-9	N	cis-1,2-Dichloroethene	2.00	1.50 J	2.00 U		ug/l	V
G6M-97-05B-SPR24-LTM 680-249958-9	N	Dichlorodifluoromethane	2.00	1.00 U Q	1.00 UJ		ug/l	V1
G6M-97-05B-SPR24-LTM 680-249958-9	N	Trichloroethene (TCE)	1.00	0.400 J M	1.00 U		ug/l	V
G6M-97-05B-SPR24-LTM 680-249958-9	N	Vinyl acetate	2.50	2.00 U Q M	2.00 UJ		ug/l	V5
XSA-12-96X-SPR24-LTM 680-249958-10	N	Tetrachloroethene (PCE)	2.00	1.40 J	2.00 U		ug/l	V
XSA-12-96X-SPR24-LTM 680-249958-10	N	Trichloroethene (TCE)	2.40	2.40	2.40 U		ug/l	V

Test Method: SW9034		Extraction Method: NONE						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	Sulfide	2.10	1.70 U H	1.70 UJ		mg/l	H1
G6M-04-10A-SPR24-LTM 680-249958-4	N	Sulfide	2.10	0.850 J H	0.850 J	-	mg/l	H1/TR
G6M-07-02X-SPR24-LTM 680-249958-5	N	Sulfide	2.20	1.80 U H	1.80 UJ		mg/l	H1
G6M-13-05X-SPR24-LTM 680-249958-8	N	Sulfide	2.00	1.60 J H	1.60 J	-	mg/l	H1/TR

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOQ) based on the sample concentration.
In instances where no LOD is provided, results are reported down to the LOQ.
Trace values are not included in the qualified results table unless additional reason codes are associated.

Table of Results with Modified Qualifiers

Modified Qualifiers for test method RSK175

FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	ADR Result	ADR Flag/Bias	ADR Reason	Modified Result	Modified Flag/Bias	Reason
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	Methane	390	15000	15000	J	Z			
G6M-04-02X-SPR24-LTM 680-249958-2	N	Methane	390	24000	24000	J	Z			
G6M-04-07X-SPR24-LTM 680-249958-3	N	Methane	1.20	130	130	J	Z			
G6M-04-10A-SPR24-LTM 680-249958-4	N	Methane	390	11000 J1	11000	J	Z			
G6M-07-02X-SPR24-LTM 680-249958-5	N	Methane	390	13000	13000	J	Z			
G6M-13-01X-SPR24-LTM 680-249958-6	N	Methane	390	910	910	J	Z			
G6M-13-02X-SPR24-LTM 680-249958-7	N	Methane	390	8800	8800	J	Z			
G6M-13-05X-SPR24-LTM 680-249958-8	N	Methane	390	20000	20000	J	Z			
G6M-97-05B-SPR24-LTM 680-249958-9	N	Methane	390	31000	31000	J	Z			

Modified Qualifiers for test method SW8260D

FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	ADR Result	ADR Flag/Bias	ADR Reason	Modified Result	Modified Flag/Bias	Reason
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	1,2-Dibromo-3-chloropropane	10.0	5.00 U Q	5.00	X	V2	5.00	UJ	V2
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	2-Butanone (MEK)	25.0	20.0 U Q	20.0	X	V2	20.0	UJ	V2
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	2-Hexanone	20.0	10.0 U Q	10.0	X	V2	10.0	UJ	V2
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	4-Methyl-2-pentanone (MIBK)	20.0	10.0 U Q	10.0	X	V2	10.0	UJ	V2
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	Bromoform	2.50	2.00 U Q	2.00	X	V2	2.00	UJ	V2
AOC50-DUP01-SPR24-LTM 680-249958-1	FD	Vinyl chloride	2.00	1.00 U Q	1.00	U		1.00	UJ	V2
AOC50-RB01-SPR24-LTM 680-249958-11	EB	Carbon disulfide	2.00	1.00 U Q	1.00	U		1.00	UJ	V1
AOC50-RB01-SPR24-LTM 680-249958-11	EB	Vinyl acetate	2.50	2.00 U Q	2.00	X	V5	2.00	UJ	V5

Table of Results with Modified Qualifiers

Modified Qualifiers for test method SW8260D										
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	ADR Result	ADR Flag/Bias	ADR Reason	Modified Result	Modified Flag/Bias	Reason
AOC50-TB-SPR24-LTM 680-249958-12	TB	Bromoform	2.50	2.00 U Q	2.00	U		2.00	UJ	V2
AOC50-TB-SPR24-LTM 680-249958-12	TB	Dichlorodifluoromethane	2.00	1.00 U Q	1.00	U		1.00	UJ	V1
AOC50-TB-SPR24-LTM 680-249958-12	TB	Vinyl acetate	2.50	2.00 U Q M	2.00	X	V5	2.00	UJ	V5
G6M-04-02X-SPR24-LTM 680-249958-2	N	1,2-Dibromo-3-chloropropane	10.0	5.00 U Q	5.00	X	V2	5.00	UJ	V2
G6M-04-02X-SPR24-LTM 680-249958-2	N	2-Butanone (MEK)	25.0	20.0 U Q	20.0	X	V2	20.0	UJ	V2
G6M-04-02X-SPR24-LTM 680-249958-2	N	2-Hexanone	20.0	10.0 U Q	10.0	X	V2	10.0	UJ	V2
G6M-04-02X-SPR24-LTM 680-249958-2	N	4-Methyl-2-pentanone (MIBK)	20.0	10.0 U Q	10.0	X	V2	10.0	UJ	V2
G6M-04-02X-SPR24-LTM 680-249958-2	N	Bromoform	2.50	2.00 U Q	2.00	X	V2	2.00	UJ	V2
G6M-04-02X-SPR24-LTM 680-249958-2	N	Carbon disulfide	2.00	1.00 U Q	1.00	U		1.00	UJ	V1
G6M-04-02X-SPR24-LTM 680-249958-2	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-04-07X-SPR24-LTM 680-249958-3	N	Carbon disulfide	2.00	1.00 U Q	1.00	U		1.00	UJ	V1
G6M-04-10A-SPR24-LTM 680-249958-4	N	Carbon disulfide	2.00	0.750 J Q	2.00	U	T	2.00	UJ	T/V1
G6M-07-02X-SPR24-LTM 680-249958-5	N	Carbon disulfide	2.00	1.00 U Q	1.00	U		1.00	UJ	V1
G6M-13-01X-SPR24-LTM 680-249958-6	N	Bromoform	2.50	2.00 U Q	2.00	U		2.00	UJ	V2
G6M-13-01X-SPR24-LTM 680-249958-6	N	Dichlorodifluoromethane	2.00	1.00 U Q	1.00	U		1.00	UJ	V1
G6M-13-01X-SPR24-LTM 680-249958-6	N	Vinyl acetate	2.50	2.00 U Q M	2.00	X	V5	2.00	UJ	V5
G6M-13-02X-SPR24-LTM 680-249958-7	N	Carbon disulfide	2.00	1.00 U Q	1.00	U		1.00	UJ	V1
G6M-13-02X-SPR24-LTM 680-249958-7	N	Vinyl acetate	2.50	2.00 U Q	2.00	X	V5	2.00	UJ	V5
G6M-13-05X-SPR24-LTM 680-249958-8	N	Carbon disulfide	2.00	1.00 U Q	1.00	U		1.00	UJ	V1

Table of Results with Modified Qualifiers

Modified Qualifiers for test method SW8260D

FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	ADR Result	ADR Flag/Bias	ADR Reason	Modified Result	Modified Flag/Bias	Reason
G6M-97-05B-SPR24-LTM 680-249958-9	N	Bromoform	2.50	2.00 U Q	2.00	U		2.00	UJ	V2
G6M-97-05B-SPR24-LTM 680-249958-9	N	Dichlorodifluoromethane	2.00	1.00 U Q	1.00	U		1.00	UJ	V1
G6M-97-05B-SPR24-LTM 680-249958-9	N	Vinyl acetate	2.50	2.00 U Q M	2.00	X	V5	2.00	UJ	V5

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOQ) based on the sample concentration.
In instances where no LOD is provided, results are reported down to the LOQ.
Trace values are not included in the qualified results table unless additional reason codes are associated.

Reason Code Definitions

Code	Definition
B2	CCB
D	MS RPD
H1	Test Hold Time
L	Lab Blank
M	MS Recovery
T	Trip Blank
TR	Trace Level Detect
V	Equipment Blank
V1	ICV
V2	CCV
V5	Ending Continuing Calibration Verification

Flag Code and Definitions

Flag	Definition
J	Estimated Value
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Bias

-	The result may be biased low
+	The result may be biased high

Note - The bias field is a separate field; however, it is an integral part of the final flag (qualifier) on the sample result

Sample Types

SACODE	Definition
BD	Blank Spike Duplicate
BS	Blank Spike

CB	Calibration Blank
CV	Continuing Calibration Verification
EB	Equipment Blank
FD	Field Duplicate
IA	Interference Check Sample-A
IB	Interference Check Sample-AB
LB	Laboratory Blank
MS	Matrix Spike
N	Normal
SD	Matrix Spike Duplicate
TB	Trip Blank

Review Questions

Method: A2320B (Alkalinity by Titrimetric Method)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?			•	Not applicable to this method.
Were all reported analytes for the ICV within the required criteria?			•	Not applicable to this method.
Were ICB/CCBs run at the required frequency?			•	Not applicable to this method.
Were target analytes in the ICBs/CCBs non-detect?			•	Not applicable to this method.
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: E353.2 (Nitrogen, Nitrate-Nitrite (Colorimetric Automated, Cadmium Reduction))				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?		•		Result qualified J+ due to CCB detects.
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?		•		Results qualified J+ due to MS/MSD %R greater than %R limits.
Was the MS/MSD RPD within project acceptance limits?		•		Results qualified J due to MS/MSD RPD greater than RPD limits.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: RSK175 (Dissolved Gas Analysis in Water Samples Using a GC Headspace Equilibrium Technique)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Were the required minimum levels of calibration standards used in the initial calibration?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Were surrogate recoveries within project acceptance limits?			•	Not applicable to this method.
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?	•			
Were target analytes reported in the field blank(s) less than MDL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			ADR reports LCS/LCSD RPD as greater than LCS/LCSD RPD limits, lab report was manually reviewed and the RPD was within limits.
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?		•		MS/MSD %R below %R limits but no results were qualified due to sample result >4x spike.
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were DoD QSM corrective actions followed if deviations were noted?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW6010C (Trace Metals by Inductively Coupled Plasma/Atomic Emission Spectrometry)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?	•			
Were target analytes reported in the field blank(s) less than MDL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?		•		MS/MSD %R greater than %R limits but no results were qualified due to sample result>4x spike.
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW6020A (Trace Metals by Inductively Coupled Plasma/Mass Spectrometry)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?	•			
Were target analytes reported in the field blank(s) less than MDL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?	•			
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW8260D (Volatile Organic Compounds by GC/MS)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?		•		Several results qualified UJ due to CCV %D out of limits.
Were the required minimum levels of calibration standards used in the initial calibration?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?		•		Several results qualified UJ due to ICV %D out of limits.
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Were surrogate recoveries within project acceptance limits?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?		•		Several results qualified U at the LOQ due to method blank contamination.
Were field blanks (EBs or FBs) submitted with these samples?	•			
Were target analytes reported in the field blank(s) less than MDL?		•		Several results qualified U at the LOQ due to equipment blank contamination.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?		•		LCS/LCSD RPD greater than RPD limits but no results were qualified due to being non-detects.
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?		•		MS/MSD %R greater than %R limits but no results were qualified due to being non-detects.
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were DoD QSM corrective actions followed if deviations were noted?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW9034 (Titrimetric Procedure for Acid-Soluble and Acid-Insoluble Sulfides)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?		•		Several results qualified either J- or UJ due to analysis outside of the holding time.
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?	•			
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW9056A (Anion Chromatography)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?	•			
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW9060A (Total Organic Carbon)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?	•			
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Field Duplicate Report By SDG
Former Fort Devens, Long Term Monitoring
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Spring 2024
Field Duplicates for SDG: 680-249958-1

Location	Analysis
G6M-07-02X	A2320B

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Alkalinity, Total (as CaCO3)	64.0	61.0	5.50	4.80	30	OK	NA

Location	Analysis
G6M-07-02X	E353.2

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Nitrate-Nitrite (as N)	0.0690	0.120	0.100	54.0	30	NA	OK

Location	Analysis
G6M-07-02X	RSK175

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Ethane	1.30	2.00	1.10	42.4	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Ethene	2.50	2.10	1.00	17.4	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Methane	13000	15000	390	14.3	30	OK	NA

Location	Analysis
G6M-07-02X	SW6010C

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Aluminum (FLDFLT)	ND	ND	200	NA	30	NA	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 5 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil"

Field Duplicate Report By SDG

Former Fort Devens, Long Term Monitoring
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Spring 2024
Field Duplicates for SDG: 680-249958-1

Location	Analysis
G6M-07-02X	SW6010C

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Iron (FLDFLT)	74000	77000	100	3.97	30	OK	NA

Location	Analysis
G6M-07-02X	SW6020A

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Arsenic (FLDFLT)	28.0	32.0	5.00	13.3	30	OK	NA

Location	Analysis
G6M-07-02X	SW8260D

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,1,1,2-Tetrachloroethane	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,1,1-Trichloroethane	ND	ND	1.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,1,2,2-Tetrachloroethane	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,1,2-Trichloroethane	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,1-Dichloroethane	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,1-Dichloroethene	ND	ND	2.00	NA	30	NA	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 5 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil"

Field Duplicate Report By SDG
Former Fort Devens, Long Term Monitoring
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Spring 2024
Field Duplicates for SDG: 680-249958-1

Location	Analysis
G6M-07-02X	SW8260D

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,1-Dichloropropene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,2,3-Trichlorobenzene	ND	ND	5.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,2,3-Trichloropropane	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,2,4-Trichlorobenzene	ND	ND	5.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,2,4-Trimethylbenzene	0.860	0.790	2.00	8.48	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,2-Dibromo-3-chloropropane	ND	ND	10.0	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,2-Dibromoethane (EDB)	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,2-Dichlorobenzene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,2-Dichloroethane	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,2-Dichloroethene	1.10	0.840	2.00	26.8	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,2-Dichloropropane	ND	ND	1.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,3,5-Trimethylbenzene	0.430	0.300	2.00	35.6	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,3-Dichlorobenzene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,3-Dichloropropane	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	1,4-Dichlorobenzene	ND	ND	2.00	NA	30	NA	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 5 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil"

Field Duplicate Report By SDG
Former Fort Devens, Long Term Monitoring
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Spring 2024
Field Duplicates for SDG: 680-249958-1

Location	Analysis
G6M-07-02X	SW8260D

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	2,2-Dichloropropane	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	2-Butanone (MEK)	ND	ND	25.0	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	2-Chlorotoluene	ND	ND	1.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	2-Hexanone	ND	ND	20.0	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	4-Chlorotoluene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	4-Methyl-2-pentanone (MIBK)	ND	ND	20.0	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Acetone	ND	ND	25.0	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Benzene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Bromobenzene	ND	ND	1.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Bromochloromethane	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Bromodichloromethane	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Bromoform	ND	ND	2.50	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Bromomethane	ND	ND	20.0	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Carbon disulfide	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Carbon Tetrachloride	ND	ND	2.00	NA	30	NA	OK

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RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 5 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil"

Field Duplicate Report By SDG
Former Fort Devens, Long Term Monitoring
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Spring 2024
Field Duplicates for SDG: 680-249958-1

Location	Analysis
G6M-07-02X	SW8260D

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Chlorobenzene	ND	ND	1.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Chloroethane	ND	ND	20.0	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Chloroform	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Chloromethane	ND	ND	2.50	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	cis-1,2-Dichloroethene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	cis-1,3-Dichloropropene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Cumene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Dibromochloromethane	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Dibromomethane	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Dichlorodifluoromethane	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Ethylbenzene	ND	ND	1.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Hexachlorobutadiene	ND	ND	5.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	m,p-Xylene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Methyl tert-butyl ether (MTBE)	ND	ND	5.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Methylene chloride	ND	ND	20.0	NA	30	NA	OK

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Field Duplicate Report By SDG
Former Fort Devens, Long Term Monitoring
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Spring 2024
Field Duplicates for SDG: 680-249958-1

Location	Analysis
G6M-07-02X	SW8260D

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	n-Butylbenzene	ND	ND	2.50	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	n-Propylbenzene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Naphthalene	3.50	3.00	10.0	15.4	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	o-Xylene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	p-Cymene (p-Isopropyltoluene)	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	sec-Butylbenzene	ND	ND	2.50	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Styrene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	tert-Butylbenzene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Tetrachloroethene (PCE)	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Toluene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	trans-1,2-Dichloroethene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	trans-1,3-Dichloropropene	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Trichloroethene (TCE)	ND	ND	1.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Trichlorofluoromethane	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Vinyl acetate	ND	ND	2.50	NA	30	NA	OK

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Field Duplicate Report By SDG
Former Fort Devens, Long Term Monitoring
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Spring 2024
Field Duplicates for SDG: 680-249958-1

Location	Analysis
G6M-07-02X	SW8260D

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Vinyl chloride	ND	ND	2.00	NA	30	NA	OK
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Xylenes, Total	ND	ND	2.00	NA	30	NA	OK

Location	Analysis
G6M-07-02X	SW9034

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Sulfide	ND	ND	2.20	NA	30	NA	OK

Location	Analysis
G6M-07-02X	SW9056A

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Sulfate	ND	ND	1.50	NA	30	NA	OK

Location	Analysis
G6M-07-02X	SW9060A

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
G6M-07-02X-SPR24-LTM / AOC50-DUP01-SPR24-LTM	680-249958-5 / 680-249958-1	Total Organic Carbon	67.0	68.0	1.00	1.48	30	OK	NA

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RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 5 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil"

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

ARCADIS U.S., Inc.
3109 West Martin Luther King Jr. Blvd, Suite 350
Tampa, FL 33607
ATTN: Mr. Nathan Mullens
nrmullens@seres-es.com

January 31, 2025

SUBJECT: Fort Devens - Data Validation

Dear Mr. Mullens,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on January 9, 2024. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #60434_C:

SDG #	**Fraction**
680-258431-1	Volatiles, Metals, Total Organic Carbons

The data validation was performed under Stage 2B guidelines. The analysis was validated using the following documents, as applicable to each method:

- Quality Assurance Project Plan, Long Term Monitoring Program, Former Fort Devens, 2020
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

LDC #60434 (Arcadis - Tampa, FL / Fort Devens)

LDC	SDG#	Received Date	(21) Due Date	Validation Level	Diss. Mn (6010C)	Chloride (9056A)	DOC (9060A)	Mn (6010C)	As (6020A)	Diss. Fe & Mn (6010C)
Matrix Type:					Water	Water	Water	Water	Water	Water
A	680-257746-1	1/9/25	1/30/25	Stage 2B	0	0	26	0	4	22
B	680-257748-1	1/9/25	1/30/25	Stage 2B	0	0	24	0	2	22
C	680-258431-1	1/9/25	1/30/25	Stage 2B	0	1	0	0	0	6
D	680-258683-1	1/9/25	1/30/25	Stage 2B	0	11	0	0	0	29
E	680-258959-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	1	0
F	680-259165-1	1/9/25	1/30/25	Stage 2B	0	0	3	0	0	1
G	680-259168-1	1/9/25	1/30/25	Stage 2B	1	0	0	0	0	10
H	680-259247-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
I	680-259401-1	1/9/25	1/30/25	Stage 2B	0	0	0	1	0	0
J	680-259483-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	2	0
Total			PM: PG		**1**	**12**	**53**	**1**	**9**	**90**

LDC	SDG#	Received Date	(21) Due Date	Validation Level	Chloride, Sulfate (9056A)	Fe & Mn (6010C)	(3) Diss. Metals (6010C)	(3) Metals (6010C)	(8) Diss. Metals (6010C)	(8) Metals (6010C)
Matrix Type:					Water	Water	Water	Water	Water	Water
A	680-257746-1	1/9/25	1/30/25	Stage 2B	26	0	0	0	4	4
B	680-257748-1	1/9/25	1/30/25	Stage 2B	24	0	2	2	0	0
C	680-258431-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
D	680-258683-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
E	680-258959-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	1
F	680-259165-1	1/9/25	1/30/25	Stage 2B	3	0	0	0	0	0
G	680-259168-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
H	680-259247-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
I	680-259401-1	1/9/25	1/30/25	Stage 2B	0	7	0	0	0	0
J	680-259483-1	1/9/25	1/30/25	Stage 2B	0	1	0	0	2	1
Total			PM: PG		**53**	**8**	**2**	**2**	**6**	**6**

LDC #60434 (Arcadis - Tampa, FL / Fort Devens)

LDC	SDG#	Received Date	(21) Due Date	Validation Level	Alkalinity (2320B)	TSS (2540D)	Mercury (7470A)	DRO (8015C)	Pesticides (8081B)	VOCs (8260D)
Matrix Type:					Water	Water	Water	Water	Water	Water
A	680-257746-1	1/9/25	1/30/25	Stage 2B	26	0	0	0	0	0
B	680-257748-1	1/9/25	1/30/25	Stage 2B	24	0	0	0	0	0
C	680-258431-1	1/9/25	1/30/25	Stage 2B	1	0	0	0	0	7
D	680-258683-1	1/9/25	1/30/25	Stage 2B	11	0	0	0	0	33
E	680-258959-1	1/9/25	1/30/25	Stage 2B	0	1	1	1	1	0
F	680-259165-1	1/9/25	1/30/25	Stage 2B	3	0	0	0	0	0
G	680-259168-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
H	680-259247-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	4	4
I	680-259401-1	1/9/25	1/30/25	Stage 2B	5	0	0	0	0	0
J	680-259483-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
Total			PM: PG		**70**	**1**	**1**	**1**	**5**	**44**

LDC	SDG#	Received Date	(21) Due Date	Validation Level	Cyanide (9012B)	Sulfide (9034)	pH (9040)	TOC (9060A)	Phenols (9066)	Ammonia-N (350.1)
Matrix Type:					Water	Water	Water	Water	Water	Water
A	680-257746-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	4
B	680-257748-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	2
C	680-258431-1	1/9/25	1/30/25	Stage 2B	0	1	0	1	0	0
D	680-258683-1	1/9/25	1/30/25	Stage 2B	0	11	0	10	0	0
E	680-258959-1	1/9/25	1/30/25	Stage 2B	1	0	1	0	1	0
F	680-259165-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
G	680-259168-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
H	680-259247-1	1/9/25	1/30/25	Stage 2B	4	0	0	0	0	0
I	680-259401-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
J	680-259483-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	2
Total			PM: PG		**5**	**12**	**1**	**11**	**1**	**8**

LDC #60434 (Arcadis - Tampa, FL / Fort Devens)

LDC	SDG#	Received Date	(21) Due Date	Validation Level	Nitrate/Nitrite-N (353.2)	COD (410.4)	VOCs (524.2)	As (6020A)	SVOCs (625)	Methane, Ethane, Ethene (RSK-175)
Matrix Type:					Water	Water	Water	Water	Water	Water
A	680-257746-1	1/9/25	1/30/25	Stage 2B	0	0	0	26	0	0
B	680-257748-1	1/9/25	1/30/25	Stage 2B	0	0	0	24	0	0
C	680-258431-1	1/9/25	1/30/25	Stage 2B	1	0	0	6	0	1
D	680-258683-1	1/9/25	1/30/25	Stage 2B	11	0	0	29	0	11
E	680-258959-1	1/9/25	1/30/25	Stage 2B	0	0	2	0	1	0
F	680-259165-1	1/9/25	1/30/25	Stage 2B	0	0	0	1	0	0
G	680-259168-1	1/9/25	1/30/25	Stage 2B	0	0	0	10	0	0
H	680-259247-1	1/9/25	1/30/25	Stage 2B	0	4	0	0	0	0
I	680-259401-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
J	680-259483-1	1/9/25	1/30/25	Stage 2B	0	0	0	2	0	0
Total			PM: PG		**12**	**4**	**2**	**98**	**1**	**12**

LDC	SDG#	Received Date	(21) Due Date	Validation Level	EPH (MADEP-EPH)	VPH (MADEP-VPH)
Matrix Type:					Water	Water
A	680-257746-1	1/9/25	1/30/25	Stage 2B	0	0
B	680-257748-1	1/9/25	1/30/25	Stage 2B	0	0
C	680-258431-1	1/9/25	1/30/25	Stage 2B	0	0
D	680-258683-1	1/9/25	1/30/25	Stage 2B	0	0
E	680-258959-1	1/9/25	1/30/25	Stage 2B	0	0
F	680-259165-1	1/9/25	1/30/25	Stage 2B	0	0
G	680-259168-1	1/9/25	1/30/25	Stage 2B	10	0
H	680-259247-1	1/9/25	1/30/25	Stage 2B	0	0
I	680-259401-1	1/9/25	1/30/25	Stage 2B	0	8
J	680-259483-1	1/9/25	1/30/25	Stage 2B	0	0
Total			PM: PG		**10**	**8**

These sample counts do not include MS/MSD, and DUPs.

EDD: EQuIS

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Data Validation Report for 680-258431-1

Project:	Former Fort Devens, Long Term Monitoring
Event:	Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
SDG:	680-258431-1
Guidance Document:	Quality Assurance Project Plan, Long Term Monitoring Program, Former Fort Devens, 2020
Prime Contractor:	Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Project Manager:	Jennifer Singer
Contract Laboratory(ies):	Eurofins Environment Testing TestAmerica, Savannah, GA
Data Review Contractor:	Laboratory Data Consultants, Inc.
Data Review Level:	2B
Primary Data Reviewer:	Long Ngo, Environmental Scientist
Second Reviewer:	Pei Geng, Senior Scientist
Date Submitted:	January 30, 2025

Field Sample ID	Lab Sample ID	Matrix	Type/Type Code	A2320B	E353.2	RSK175	SW6010C - Dissolved	SW6020A - Dissolved	SW8260D	SW9034	SW9056A	SW9060A
AOC50-RB-01-FAL24	680-258431-7	Water	Equipment Blank/EB				X	X	X			
G6M-02-11X-FAL24	680-258431-1	Water	Field Sample/N				X	X	X			
G6M-04-02X-FAL24	680-258431-2	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-04-15X-FAL24	680-258431-3	Water	Field Sample/N				X	X	X			
G6M-04-22X-FAL24	680-258431-4	Water	Field Sample/N				X	X	X			
G6M-04-31X-FAL24	680-258431-5	Water	Field Sample/N				X	X	X			
G6M-13-03X-FAL24	680-258431-6	Water	Field Sample/N						X			

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page at 2B data validation level. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Quality Assurance Project Plan, Long Term Monitoring Program, Former Fort Devens, 2020 and the additional guidance documents incorporated by reference to the extent possible. Where definitive guidance is not provided, results have been evaluated in a conservative manner using professional judgment.

Sample collection was managed and directed by Seres - Arcadis SB Joint Venture, LLC, Charleston, SC; analyses were performed by Eurofins Environment Testing TestAmerica, Savannah, GA and were reported under sample delivery group (SDG) 680-258431-1. Data have been evaluated electronically based on electronic data deliverables (EDDs) provided by the laboratory, and hard copy data summary forms have also been reviewed during this effort and compared to the automated review output by the reviewers whose signatures appear on the following page. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative and throughout this report.

All quality control (QC) elements associated with this SDG have been reviewed by a project chemist in accordance with the requirements defined for the project. This review is documented in the attached Data Review Checklists. The QC elements listed below were supported by the electronic deliverable and were evaluated using ADR processes.

- Blank - Negative
- Calibration Blank
- Continuing Calibration Verification
- Equipment Blank
- Interference Check Sample A
- Interference Check Sample A - Negative
- Interference Check Sample AB
- Lab Blank
- LCS Recovery
- LCS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

Results of the ADR process were subsequently reviewed and updated as applicable by the data review chemists identified on the signature page. Quality control elements that were not included in the electronic deliverable were reviewed manually and findings are documented within this report. Summaries of findings and associated qualified results are documented throughout this report.

A total of 9 results (1.79%) out of the 502 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected or deemed a serious deficiency (X qualifier). Trace values, defined as results that are qualified as estimated because they fall between the detection limit and the reporting limit/limit of quantitation, are not counted as qualified results in the above count. The qualified results are detailed throughout this report and discussed in the narrative below, where appropriate.

Narrative Comments

Analytical Method	Data Reviewer Comment
A2320B	No additional comments; see Checklist for detail.
E353.2	No additional comments; see Checklist for detail.
RSK175	No additional comments; see Checklist for detail.
SW6010C	No additional comments; see Checklist for detail.
SW6020A	No additional comments; see Checklist for detail.
SW8260D	No additional comments; see Checklist for detail.
SW9034	No additional comments; see Checklist for detail.
SW9056A	No additional comments; see Checklist for detail.
SW9060A	No additional comments; see Checklist for detail.



January 30, 2025

Reviewed by Long Ngo, Environmental Scientist, Laboratory Data Consultants, Inc.

As the First Reviewer, I certify that I have performed a data review process in accordance with the requirements of the project guidance document, and have compared the electronic data to the laboratory's hard copy report and have verified the consistency of the reported sample results and method quality control data between the two deliverables.



Reviewed by Pei Geng, Senior Scientist, Laboratory Data Consultants, Inc.

January 31, 2025

As the Second Reviewer, I certify that I have performed a quality assurance review of the report generated by the First Reviewer.

Quality Control Outliers for test method E353.2, Calibration Blank

The purpose of calibration blanks is to determine the existence and magnitude of cross-contamination problems resulting from laboratory activities. Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and contaminants found in calibration blanks are listed below along with any associated qualified results.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
CCB68086539518 (CB) CCB68086539518	Nitrate-Nitrite (as N)	0.03300	< 0.0100	< 0.100	mg/l	U/None*	B2	
CCB68086539520 (CB) CCB68086539520	Nitrate-Nitrite (as N)	0.03900	< 0.0100	< 0.100	mg/l	U/None*	B2	
CCB68086539534 (CB) CCB68086539534	Nitrate-Nitrite (as N)	0.03900	< 0.0100	< 0.100	mg/l	U/None*	B2	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

*Blank flags displayed in the above table identify qualification of the sample result when it is less than or equal to the LOQ/RL. Sample results above the LOD or LOQ will be qualified based on the validation guidance assigned in the project setup.

Qualified Results associated with the Calibration Blank for E353.2

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-04-02X-FAL24 680-258431-2	N	Nitrate-Nitrite (as N)	0.100	0.0190 J	0.100 U		mg/l	B2/L

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method E353.2, Lab Blank

The purpose of laboratory blanks is to determine the existence and magnitude of cross-contamination problems resulting from laboratory activities. Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and contaminants found in laboratory blanks are listed below along with any associated qualified results.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
MB68086539514 (LB) MB68086539514	Nitrate-Nitrite (as N)	0.03000	< 0.0100	< 0.100	mg/l	U/None*	L	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

*Blank flags displayed in the above table identify qualification of the sample result when it is less than or equal to the LOQ/RL. Sample results above the LOD or LOQ will be qualified based on the validation guidance assigned in the project setup.

Qualified Results associated with the Lab Blank for E353.2

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-04-02X-FAL24 680-258431-2	N	Nitrate-Nitrite (as N)	0.100	0.0190 J	0.100 U		mg/l	B2/L

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method SW8260D, Equipment Blank

The purpose of equipment blanks is to determine the existence and magnitude of cross-contamination problems resulting from the process during sampling. Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and contaminants found in equipment blanks are listed below along with any associated qualified results.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
AOC50-RB-01-FAL24 (EB) 680-258431-7	Toluene	0.3500	< 0.250	< 2.00	ug/l	U/None*	V	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

*Blank flags displayed in the above table identify qualification of the sample result when it is less than or equal to the LOQ/RL. Sample results above the LOD or LOQ will be qualified based on the validation guidance assigned in the project setup.

Qualified Results associated with the Equipment Blank for SW8260D

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-04-22X-FAL24 680-258431-4	N	Toluene	2.00	1.60 J	2.00 U		ug/l	V

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method SW8260D, Continuing Calibration Verification

Compliance requirements for satisfactory continuing calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data. Continuing calibration is performed to verify and evaluate instrument performance during sample analysis. Summary forms were evaluated against project acceptance criteria, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
CCVIS6808653263 (CV) CCVIS6808653263	Vinyl acetate	244.0	80 - 120	80 - 120	percent	J/None	V2	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260D, LCS Recovery

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Reported results were evaluated to determine compliance with the required acceptance criteria, and summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
LCS6808653264 (BS) LCS6808653264	Vinyl acetate	223.0	54 - 146	10 - 146	percent	J/None	C	
LCSD6808653265 (BD) LCSD6808653265	Vinyl acetate	218.0	54 - 146	10 - 146	percent	J/None	C	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Table of All Qualified Results

Test Method: E353.2		Extraction Method: NONE						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-04-02X-FAL24 680-258431-2	N	Nitrate-Nitrite (as N)	0.100	0.0190 J	0.100 U		mg/l	B2/L

Test Method: SW8260D		Extraction Method: SW5030C						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-RB-01-FAL24 680-258431-7	EB	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-02-11X-FAL24 680-258431-1	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-04-02X-FAL24 680-258431-2	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-04-15X-FAL24 680-258431-3	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-04-22X-FAL24 680-258431-4	N	Toluene	2.00	1.60 J	2.00 U		ug/l	V
G6M-04-22X-FAL24 680-258431-4	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-04-31X-FAL24 680-258431-5	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-13-03X-FAL24 680-258431-6	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOQ) based on the sample concentration.
In instances where no LOD is provided, results are reported down to the LOQ.
Trace values are not included in the qualified results table unless additional reason codes are associated.

Table of Results with Modified Qualifiers

Modified Qualifiers for test method SW8260D

FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	ADR Result	ADR Flag/Bias	ADR Reason	Modified Result	Modified Flag/Bias	Reason
AOC50-RB-01-FAL24 680-258431-7	EB	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-02-11X-FAL24 680-258431-1	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-04-02X-FAL24 680-258431-2	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-04-15X-FAL24 680-258431-3	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-04-22X-FAL24 680-258431-4	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-04-31X-FAL24 680-258431-5	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-13-03X-FAL24 680-258431-6	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOQ) based on the sample concentration.
In instances where no LOD is provided, results are reported down to the LOQ.
Trace values are not included in the qualified results table unless additional reason codes are associated.

Reason Code Definitions

Code	Definition
B2	CCB
L	Lab Blank
TR	Trace Level Detect
V	Equipment Blank
V1	ICV

Flag Code and Definitions

Flag	Definition
J	Estimated Value
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Bias

-	The result may be biased low
+	The result may be biased high

Note - The bias field is a separate field; however, it is an integral part of the final flag (qualifier) on the sample result

Sample Types

SACODE	Definition
BD	Blank Spike Duplicate
BS	Blank Spike
CB	Calibration Blank
CV	Continuing Calibration Verification
EB	Equipment Blank
IA	Interference Check Sample-A
IB	Interference Check Sample-AB
LB	Laboratory Blank
N	Normal

Review Questions

Method: A2320B (Alkalinity by Titrimetric Method)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?			•	Not applicable to this method.
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qaulified.

Review Questions

Method: E353.2 (Nitrogen, Nitrate-Nitrite (Colorimetric Automated, Cadmium Reduction))				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?		•		Result qualified U at the LOQ due to detects in the CCBs.
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?		•		Result qualified U at the LOQ due to detects in the method blank.
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?			•	Not applicable to this method.
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?			•	Not applicable to this method.
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: RSK175 (Dissolved Gas Analysis in Water Samples Using a GC Headspace Equilibrium Technique)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Were the required minimum levels of calibration standards used in the initial calibration?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Were surrogate recoveries within project acceptance limits?			•	Not applicable to this method.
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?			•	Not applicable to this method.
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were DoD QSM corrective actions followed if deviations were noted?		•		Data acceptable as reported and qualified.
Were any data recommended for rejection (exclusion) in the data validation process?				

Review Questions

Method: SW6010C (Trace Metals by Inductively Coupled Plasma/Atomic Emission Spectrometry)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?	•			
Were target analytes reported in the field blank(s) less than MDL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?			•	Not applicable to this method.
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?		•		MS/MSD %R lower than %R limits but no results were qualified due to sample result >4x spike.
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?			•	Not applicable to this method.
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW6020A (Trace Metals by Inductively Coupled Plasma/Mass Spectrometry)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?	•			
Were target analytes reported in the field blank(s) less than MDL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?			•	Not applicable to this method.
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?	•			
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?			•	Not applicable to this method.
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW8260D (Volatile Organic Compounds by GC/MS)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?		•		CCV %D greater than the %D limits for Vinyl Acetate but no results were qualified due to non-detects.
Were the required minimum levels of calibration standards used in the initial calibration?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?		•		Several results qualified UJ due to ICV %D for Vinyl Acetate below ICV %D limits.
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Were surrogate recoveries within project acceptance limits?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?	•			
Were target analytes reported in the field blank(s) less than MDL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?		•		LCS/LCSD %R greater than %R limits but no results were qualified.
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?			•	Not applicable to this method.
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were DoD QSM corrective actions followed if deviations were noted?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW9034 (Titrimetric Procedure for Acid-Soluble and Acid-Insoluble Sulfides)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?			•	Not applicable to this method.
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW9056A (Anion Chromatography)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?			•	Not applicable to this method.
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW9060A (Total Organic Carbon)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?			•	Not applicable to this method.
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

ARCADIS U.S., Inc.
3109 West Martin Luther King Jr. Blvd, Suite 350
Tampa, FL 33607
ATTN: Mr. Nathan Mullens
nrmullens@seres-es.com

February 12, 2025

SUBJECT: Fort Devens - Data Validation

Dear Mr. Mullens,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on January 9, 2025. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #60434_D_RV1:

SDG #	**Fraction**
680-258683-1	Volatiles, Metals, Total Organic Carbons

The data validation was performed under Stage 2B guidelines. The analysis was validated using the following documents, as applicable to each method:

- Quality Assurance Project Plan, Long Term Monitoring Program, Former Fort Devens, 2020
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

LDC #60434 (Arcadis - Tampa, FL / Fort Devens)

LDC	SDG#	Received Date	(21) Due Date	Validation Level	Diss. Mn (6010C)	Chloride (9056A)	DOC (9060A)	Mn (6010C)	As (6020A)	Diss. Fe & Mn (6010C)
Matrix Type:					Water	Water	Water	Water	Water	Water
A	680-257746-1	1/9/25	1/30/25	Stage 2B	0	0	26	0	4	22
B	680-257748-1	1/9/25	1/30/25	Stage 2B	0	0	24	0	2	22
C	680-258431-1	1/9/25	1/30/25	Stage 2B	0	1	0	0	0	6
D	680-258683-1	1/9/25	1/30/25	Stage 2B	0	11	0	0	0	29
E	680-258959-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	1	0
F	680-259165-1	1/9/25	1/30/25	Stage 2B	0	0	3	0	0	1
G	680-259168-1	1/9/25	1/30/25	Stage 2B	1	0	0	0	0	10
H	680-259247-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
I	680-259401-1	1/9/25	1/30/25	Stage 2B	0	0	0	1	0	0
J	680-259483-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	2	0
Total			PM: PG		**1**	**12**	**53**	**1**	**9**	**90**

LDC	SDG#	Received Date	(21) Due Date	Validation Level	Chloride, Sulfate (9056A)	Fe & Mn (6010C)	(3) Diss. Metals (6010C)	(3) Metals (6010C)	(8) Diss. Metals (6010C)	(8) Metals (6010C)
Matrix Type:					Water	Water	Water	Water	Water	Water
A	680-257746-1	1/9/25	1/30/25	Stage 2B	26	0	0	0	4	4
B	680-257748-1	1/9/25	1/30/25	Stage 2B	24	0	2	2	0	0
C	680-258431-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
D	680-258683-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
E	680-258959-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	1
F	680-259165-1	1/9/25	1/30/25	Stage 2B	3	0	0	0	0	0
G	680-259168-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
H	680-259247-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
I	680-259401-1	1/9/25	1/30/25	Stage 2B	0	7	0	0	0	0
J	680-259483-1	1/9/25	1/30/25	Stage 2B	0	1	0	0	2	1
Total			PM: PG		**53**	**8**	**2**	**2**	**6**	**6**

LDC #60434 (Arcadis - Tampa, FL / Fort Devens)

LDC	SDG#	Received Date	(21) Due Date	Validation Level	Alkalinity (2320B)	TSS (2540D)	Mercury (7470A)	DRO (8015C)	Pesticides (8081B)	VOCs (8260D)
Matrix Type:					Water	Water	Water	Water	Water	Water
A	680-257746-1	1/9/25	1/30/25	Stage 2B	26	0	0	0	0	0
B	680-257748-1	1/9/25	1/30/25	Stage 2B	24	0	0	0	0	0
C	680-258431-1	1/9/25	1/30/25	Stage 2B	1	0	0	0	0	7
D	680-258683-1	1/9/25	1/30/25	Stage 2B	11	0	0	0	0	33
E	680-258959-1	1/9/25	1/30/25	Stage 2B	0	1	1	1	1	0
F	680-259165-1	1/9/25	1/30/25	Stage 2B	3	0	0	0	0	0
G	680-259168-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
H	680-259247-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	4	4
I	680-259401-1	1/9/25	1/30/25	Stage 2B	5	0	0	0	0	0
J	680-259483-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
Total			PM: PG		**70**	**1**	**1**	**1**	**5**	**44**

LDC	SDG#	Received Date	(21) Due Date	Validation Level	Cyanide (9012B)	Sulfide (9034)	pH (9040)	TOC (9060A)	Phenols (9066)	Ammonia-N (350.1)
Matrix Type:					Water	Water	Water	Water	Water	Water
A	680-257746-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	4
B	680-257748-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	2
C	680-258431-1	1/9/25	1/30/25	Stage 2B	0	1	0	1	0	0
D	680-258683-1	1/9/25	1/30/25	Stage 2B	0	11	0	10	0	0
E	680-258959-1	1/9/25	1/30/25	Stage 2B	1	0	1	0	1	0
F	680-259165-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
G	680-259168-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
H	680-259247-1	1/9/25	1/30/25	Stage 2B	4	0	0	0	0	0
I	680-259401-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
J	680-259483-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	2
Total			PM: PG		**5**	**12**	**1**	**11**	**1**	**8**

LDC #60434 (Arcadis - Tampa, FL / Fort Devens)

LDC	SDG#	Received Date	(21) Due Date	Validation Level	Nitrate/Nitrite-N (353.2)	COD (410.4)	VOCs (524.2)	As (6020A)	SVOCs (625)	Methane, Ethane, Ethene (RSK-175)
Matrix Type:					Water	Water	Water	Water	Water	Water
A	680-257746-1	1/9/25	1/30/25	Stage 2B	0	0	0	26	0	0
B	680-257748-1	1/9/25	1/30/25	Stage 2B	0	0	0	24	0	0
C	680-258431-1	1/9/25	1/30/25	Stage 2B	1	0	0	6	0	1
D	680-258683-1	1/9/25	1/30/25	Stage 2B	11	0	0	29	0	11
E	680-258959-1	1/9/25	1/30/25	Stage 2B	0	0	2	0	1	0
F	680-259165-1	1/9/25	1/30/25	Stage 2B	0	0	0	1	0	0
G	680-259168-1	1/9/25	1/30/25	Stage 2B	0	0	0	10	0	0
H	680-259247-1	1/9/25	1/30/25	Stage 2B	0	4	0	0	0	0
I	680-259401-1	1/9/25	1/30/25	Stage 2B	0	0	0	0	0	0
J	680-259483-1	1/9/25	1/30/25	Stage 2B	0	0	0	2	0	0
Total			PM: PG		**12**	**4**	**2**	**98**	**1**	**12**

LDC	SDG#	Received Date	(21) Due Date	Validation Level	EPH (MADEP-EPH)	VPH (MADEP-VPH)
Matrix Type:					Water	Water
A	680-257746-1	1/9/25	1/30/25	Stage 2B	0	0
B	680-257748-1	1/9/25	1/30/25	Stage 2B	0	0
C	680-258431-1	1/9/25	1/30/25	Stage 2B	0	0
D	680-258683-1	1/9/25	1/30/25	Stage 2B	0	0
E	680-258959-1	1/9/25	1/30/25	Stage 2B	0	0
F	680-259165-1	1/9/25	1/30/25	Stage 2B	0	0
G	680-259168-1	1/9/25	1/30/25	Stage 2B	10	0
H	680-259247-1	1/9/25	1/30/25	Stage 2B	0	0
I	680-259401-1	1/9/25	1/30/25	Stage 2B	0	8
J	680-259483-1	1/9/25	1/30/25	Stage 2B	0	0
Total			PM: PG		**10**	**8**

These sample counts do not include MS/MSD, and DUPs.

EDD: EQuIS

V:\LOGIN\Arcadis\Fort Devens\60434ST

Data Validation Report for 680-258683-1

Project:	Former Fort Devens, Long Term Monitoring
Event:	Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
SDG:	680-258683-1
Guidance Document:	Quality Assurance Project Plan, Long Term Monitoring Program, Former Fort Devens, 2020
Prime Contractor:	Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Project Manager:	Jennifer Singer
Contract Laboratory(ies):	Eurofins Environment Testing TestAmerica, Savannah, GA
Data Review Contractor:	Laboratory Data Consultants, Inc.
Data Review Level:	2B
Primary Data Reviewer:	Long Ngo, Environmental Scientist
Second Reviewer:	Pei Geng, Senior Scientist
Date Submitted:	January 31, 2025

Field Sample ID	Lab Sample ID	Matrix	Type/Type Code	A2320B	E353.2	RSK175	SW6010C - Dissolved	SW6020A - Dissolved	SW8260D	SW9034	SW9056A	SW9060A
AOC50-DUP02-FAL24	680-258683-1	Water	Field Duplicate/FD	X	X	X	X	X	X	X	X	X
AOC50-DUP04-FAL24	680-258683-2	Water	Field Duplicate/FD				X	X	X			
AOC50-RB-02-FAL24	680-258683-31	Water	Equipment Blank/EB				X	X	X			
AOC50-RB-03-FAL24	680-258683-32	Water	Equipment Blank/EB				X	X	X			
AOC50-RB-04-FAL24	680-258683-33	Water	Equipment Blank/EB				X	X	X			
G6M-02-01X-FAL24	680-258683-3	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-02-04X-FAL24	680-258683-4	Water	Field Sample/N				X	X	X			
G6M-02-06X-FAL24	680-258683-5	Water	Field Sample/N				X	X	X			
G6M-02-07X-FAL24	680-258683-6	Water	Field Sample/N				X	X	X			
G6M-02-12X-FAL24	680-258683-7	Water	Field Sample/N				X	X	X			
G6M-02-13X-FAL24	680-258683-8	Water	Field Sample/N				X	X	X			
G6M-03-08X-FAL24	680-258683-9	Water	Field Sample/N				X	X	X			
G6M-04-01X-FAL24	680-258683-10	Water	Field Sample/N				X	X	X			
G6M-04-05X-FAL24	680-258683-11	Water	Field Sample/N						X			
G6M-04-06X-FAL24	680-258683-12	Water	Field Sample/N				X	X	X			
G6M-04-07X-FAL24	680-258683-13	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-04-09X-FAL24	680-258683-14	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-04-10A-FAL24	680-258683-15	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-04-10X-FAL24	680-258683-16	Water	Field Sample/N						X			

Data Validation Report for 680-258683-1

Field Sample ID	Lab Sample ID	Matrix	Type/Type Code	A2320B	E353.2	RSK175	SW6010C - Dissolved	SW6020A - Dissolved	SW8260D	SW9034	SW9056A	SW9060A
G6M-04-13X-FAL24	680-258683-17	Water	Field Sample/N						X			
G6M-04-14X-FAL24	680-258683-18	Water	Field Sample/N				X	X	X			
G6M-07-01X-FAL24	680-258683-19	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-07-02X-FAL24	680-258683-20	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-13-01X-FAL24	680-258683-21	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-13-04X-FAL24	680-258683-22	Water	Field Sample/N				X	X	X			
G6M-13-05X-FAL24	680-258683-23	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-13-06X-FAL24	680-258683-24	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-95-19X-FAL24	680-258683-25	Water	Field Sample/N						X			
G6M-95-20X-FAL24	680-258683-26	Water	Field Sample/N				X	X	X			
G6M-97-05B-FAL24	680-258683-27	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-97-28X-FAL24	680-258683-28	Water	Field Sample/N				X	X				
MW-3-FAL24	680-258683-29	Water	Field Sample/N				X	X	X			
MW-7-FAL24	680-258683-30	Water	Field Sample/N				X	X	X			
Trip Blank	680-258683-34	Water	Trip Blank/TB						X			

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page at 2B data validation level. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Quality Assurance Project Plan, Long Term Monitoring Program, Former Fort Devens, 2020 and the additional guidance documents incorporated by reference to the extent possible. Where definitive guidance is not provided, results have been evaluated in a conservative manner using professional judgment.

Sample collection was managed and directed by Seres - Arcadis SB Joint Venture, LLC, Charleston, SC; analyses were performed by Eurofins Environment Testing TestAmerica, Savannah, GA and were reported under sample delivery group (SDG) 680-258683-1. Data have been evaluated electronically based on electronic data deliverables (EDDs) provided by the laboratory, and hard copy data summary forms have also been reviewed during this effort and compared to the automated review output by the reviewers whose signatures appear on the following page. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative and throughout this report.

All quality control (QC) elements associated with this SDG have been reviewed by a project chemist in accordance with the requirements defined for the project. This review is documented in the attached Data Review Checklists. The QC elements listed below were supported by the electronic deliverable and were evaluated using ADR processes.

- Blank - Negative
- Calibration Blank
- Continuing Calibration Verification
- Equipment Blank
- Field Duplicate RPD
- Interference Check Sample A
- Interference Check Sample A - Negative
- Interference Check Sample AB
- Lab Blank
- LCS Recovery
- LCS RPD
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

Results of the ADR process were subsequently reviewed and updated as applicable by the data review chemists identified on the signature page. Quality control elements that were not included in the electronic deliverable were reviewed manually and findings are documented within this report. Summaries of findings and associated qualified results are documented throughout this report.

A total of 49 results (2.03%) out of the 2419 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected or deemed a serious deficiency (X qualifier). Trace values, defined as results that are qualified as estimated because they fall between the detection limit and the reporting limit/limit of quantitation, are not counted as qualified results in the above count. The qualified results are detailed throughout this report and discussed in the narrative below, where appropriate.

Narrative Comments

Analytical Method	Data Reviewer Comment
A2320B	No additional comments; see Checklist for detail.
E353.2	No additional comments; see Checklist for detail.
RSK175	No additional comments; see Checklist for detail.
SW6010C	No additional comments; see Checklist for detail.
SW6020A	No additional comments; see Checklist for detail.
SW8260D	No additional comments; see Checklist for detail.
SW9034	No additional comments; see Checklist for detail.
SW9056A	No additional comments; see Checklist for detail.
SW9060A	No additional comments; see Checklist for detail.



January 31, 2025

Reviewed by Long Ngo, Environmental Scientist, Laboratory Data Consultants, Inc.

As the First Reviewer, I certify that I have performed a data review process in accordance with the requirements of the project guidance document, and have compared the electronic data to the laboratory's hard copy report and have verified the consistency of the reported sample results and method quality control data between the two deliverables.



Reviewed by Pei Geng, Senior Scientist, Laboratory Data Consultants, Inc.

February 12, 2025

As the Second Reviewer, I certify that I have performed a quality assurance review of the report generated by the First Reviewer.

Quality Control Outliers for test method E353.2, Calibration Blank

The purpose of calibration blanks is to determine the existence and magnitude of cross-contamination problems resulting from laboratory activities. Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and contaminants found in calibration blanks are listed below along with any associated qualified results.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
CCB68086558328 (CB) CCB68086558328	Nitrate-Nitrite (as N)	0.01900	< 0.0100	< 0.100	mg/l	U/None*	B2	
CCB68086558341 (CB) CCB68086558341	Nitrate-Nitrite (as N)	0.01100	< 0.0100	< 0.100	mg/l	U/None*	B2	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

*Blank flags displayed in the above table identify qualification of the sample result when it is less than or equal to the LOQ/RL. Sample results above the LOD or LOQ will be qualified based on the validation guidance assigned in the project setup.

Qualified Results associated with the Calibration Blank for E353.2

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-DUP02-FAL24 680-258683-1	FD	Nitrate-Nitrite (as N)	0.100	0.0260 J	0.100 U		mg/l	B2/L
G6M-02-01X-FAL24 680-258683-3	N	Nitrate-Nitrite (as N)	0.100	0.0270 J	0.100 U		mg/l	B2/L

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method E353.2, Lab Blank

The purpose of laboratory blanks is to determine the existence and magnitude of cross-contamination problems resulting from laboratory activities. Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and contaminants found in laboratory blanks are listed below along with any associated qualified results.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
MB68086558314 (LB) MB68086558314	Nitrate-Nitrite (as N)	0.01100	< 0.0100	< 0.100	mg/l	U/None*	L	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

*Blank flags displayed in the above table identify qualification of the sample result when it is less than or equal to the LOQ/RL. Sample results above the LOD or LOQ will be qualified based on the validation guidance assigned in the project setup.

Qualified Results associated with the Lab Blank for E353.2

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-DUP02-FAL24 680-258683-1	FD	Nitrate-Nitrite (as N)	0.100	0.0260 J	0.100 U		mg/l	B2/L
G6M-02-01X-FAL24 680-258683-3	N	Nitrate-Nitrite (as N)	0.100	0.0270 J	0.100 U		mg/l	B2/L

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method E353.2, MS Recovery

Data for matrix spikes/matrix spike duplicates (MS/MSD) are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. These data alone cannot be used to evaluate the precision and accuracy of individual samples. However, when exercising professional judgment, MS/MSD data can be used in conjunction with other available QC information. Reported results were evaluated to determine compliance with the required acceptance criteria, and summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
G6M-04-10A-FAL24 (MS) 680-258683-15	Nitrate-Nitrite (as N)	61.00	90 - 110	30 - 110	percent	J/UJ	M	
G6M-04-10A-FAL24 (SD) 680-258683-15	Nitrate-Nitrite (as N)	60.00	90 - 110	30 - 110	percent	J/UJ	M	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the MS Recovery for E353.2

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-04-10A-FAL24 680-258683-15	N	Nitrate-Nitrite (as N)	0.100	0.0180 J J1	0.0180 J	-	mg/l	M/TR
G6M-97-05B-FAL24 680-258683-27	N	Nitrate-Nitrite (as N)	0.100	0.0250 U J1	0.0250 UJ		mg/l	M

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method RSK175, MS Recovery

Data for matrix spikes/matrix spike duplicates (MS/MSD) are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. These data alone cannot be used to evaluate the precision and accuracy of individual samples. However, when exercising professional judgment, MS/MSD data can be used in conjunction with other available QC information. Reported results were evaluated to determine compliance with the required acceptance criteria, and summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
G6M-04-10A-FAL24 (SD) 680-258683-15	Methane	67.00	73 - 125	10 - 125	percent	J/UJ	M	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the MS Recovery for RSK175

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-04-10A-FAL24 680-258683-15	N	Methane	1.20	890 J1	890 J	-	ug/l	M

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method SW6010C, Dissolved, MS Recovery

Data for matrix spikes/matrix spike duplicates (MS/MSD) are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. These data alone cannot be used to evaluate the precision and accuracy of individual samples. However, when exercising professional judgment, MS/MSD data can be used in conjunction with other available QC information. Reported results were evaluated to determine compliance with the required acceptance criteria, and summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
G6M-04-10A-FAL24 (SD) 680-258683-15	Iron	76.00	87 - 115	10 - 125	percent	J/UJ	M	Spike amount Insignificant
MW-3-FAL24 (MS) 680-258683-29	Iron	12.00	87 - 115	10 - 125	percent	J/UJ	M	Spike amount Insignificant
MW-3-FAL24 (MS) 680-258683-29	Manganese	-250.0	90 - 114	10 - 125	percent	J/X	M	Spike amount Insignificant
MW-3-FAL24 (SD) 680-258683-29	Iron	48.00	87 - 115	10 - 125	percent	J/UJ	M	Spike amount Insignificant
MW-3-FAL24 (SD) 680-258683-29	Manganese	-175.0	90 - 114	10 - 125	percent	J/X	M	Spike amount Insignificant

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260D, Equipment Blank

The purpose of equipment blanks is to determine the existence and magnitude of cross-contamination problems resulting from the process during sampling. Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and contaminants found in equipment blanks are listed below along with any associated qualified results.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
AOC50-RB-02-FAL24 (EB) 680-258683-31	Toluene	0.6400	< 0.250	< 2.00	ug/l	U/None*	V	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

*Blank flags displayed in the above table identify qualification of the sample result when it is less than or equal to the LOQ/RL. Sample results above the LOD or LOQ will be qualified based on the validation guidance assigned in the project setup.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260D, Lab Blank

The purpose of laboratory blanks is to determine the existence and magnitude of cross-contamination problems resulting from laboratory activities. Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and contaminants found in laboratory blanks are listed below along with any associated qualified results.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
MB6808660168 (LB) MB6808660168	1,4-Dichlorobenzene	0.3200	< 0.310	< 2.00	ug/l	U/None*	L	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

*Blank flags displayed in the above table identify qualification of the sample result when it is less than or equal to the LOQ/RL. Sample results above the LOD or LOQ will be qualified based on the validation guidance assigned in the project setup.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260D, Trip Blank

The purpose of trip blanks is to determine the existence and magnitude of cross-contamination problems resulting from the shipping of samples. Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and contaminants found in trip blanks are listed below along with any associated qualified results.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
TRIP BLANK (TB) 680-258683-34	Acetone	23.00	< 3.70	< 25.0	ug/l	U/None*	T	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

*Blank flags displayed in the above table identify qualification of the sample result when it is less than or equal to the LOQ/RL. Sample results above the LOD or LOQ will be qualified based on the validation guidance assigned in the project setup.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260D, Continuing Calibration Verification

Compliance requirements for satisfactory continuing calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data. Continuing calibration is performed to verify and evaluate instrument performance during sample analysis. Summary forms were evaluated against project acceptance criteria, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
CCVIS6808653263 (CV) CCVIS6808653263	Vinyl acetate	244.0	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808653352 (CV) CCVIS6808653352	Vinyl acetate	189.0	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808655823 (CV) CCVIS6808655823	Trichlorofluoromethane	137.0	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808655823 (CV) CCVIS6808655823	Vinyl acetate	240.0	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808660163 (CV) CCVIS6808660163	Trichlorofluoromethane	128.0	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808660163 (CV) CCVIS6808660163	Vinyl acetate	258.0	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808663053 (CV) CCVIS6808663053	Bromomethane	54.00	80 - 120	80 - 120	percent	J/X	V2	
CCVIS6808663053 (CV) CCVIS6808663053	Chloroethane	147.0	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808663053 (CV) CCVIS6808663053	Vinyl acetate	165.0	80 - 120	80 - 120	percent	J/None	V2	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the Continuing Calibration Verification for SW8260D

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-04-13X-FAL24 680-258683-17	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
G6M-07-02X-FAL24 680-258683-20	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
G6M-13-01X-FAL24 680-258683-21	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
G6M-95-19X-FAL24 680-258683-25	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
G6M-95-20X-FAL24 680-258683-26	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
MW-3-FAL24 680-258683-29	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
MW-7-FAL24 680-258683-30	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method SW8260D, Ending Continuing Calibration Verification

Compliance requirements for satisfactory closing continuing calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data. Continuing calibration is performed to verify and evaluate instrument performance during sample analysis. Summary forms were evaluated against project acceptance criteria, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
CCVC68086533527 (EV) CCVC68086533527	Vinyl acetate	22.00	50 - 150	50 - 150	percent	J/X	V5	
CCVC68086558217 (EV) CCVC68086558217	Vinyl acetate	155.0	50 - 150	50 - 150	percent	J/None	V5	
CCVC68086558225 (EV) CCVC68086558225	Trichlorofluoromethane	204.0	50 - 150	50 - 150	percent	J/None	V5	
CCVC68086630517 (EV) CCVC68086630517	Bromomethane	48.00	50 - 150	50 - 150	percent	J/X	V5	
CCVC68086630517 (EV) CCVC68086630517	Vinyl acetate	165.0	50 - 150	50 - 150	percent	J/None	V5	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the Ending Continuing Calibration Verification for SW8260D

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-02-07X-FAL24 680-258683-6	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-02-12X-FAL24 680-258683-7	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-02-13X-FAL24 680-258683-8	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-03-08X-FAL24 680-258683-9	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-04-01X-FAL24 680-258683-10	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-04-05X-FAL24 680-258683-11	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-04-06X-FAL24 680-258683-12	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-04-07X-FAL24 680-258683-13	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-04-09X-FAL24 680-258683-14	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-04-10A-FAL24 680-258683-15	N	Vinyl acetate	2.50	2.00 UMQJ1	2.00 UJ		ug/l	V1/V5
G6M-04-13X-FAL24 680-258683-17	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
G6M-07-02X-FAL24 680-258683-20	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
G6M-13-01X-FAL24 680-258683-21	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
G6M-95-19X-FAL24 680-258683-25	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
G6M-95-20X-FAL24 680-258683-26	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
MW-3-FAL24 680-258683-29	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5

Qualified Results associated with the Ending Continuing Calibration Verification for SW8260D

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
MW-7-FAL24 680-258683-30	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method SW8260D, LCS Recovery

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Reported results were evaluated to determine compliance with the required acceptance criteria, and summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
LCS6808653264 (BS) LCS6808653264	Vinyl acetate	223.0	54 - 146	10 - 146	percent	J/None	C	
LCS6808653353 (BS) LCS6808653353	Vinyl acetate	189.0	54 - 146	10 - 146	percent	J/None	C	
LCS6808655824 (BS) LCS6808655824	Vinyl acetate	241.0	54 - 146	10 - 146	percent	J/None	C	
LCS6808660164 (BS) LCS6808660164	Vinyl acetate	235.0	54 - 146	10 - 146	percent	J/None	C	
LCS6808663054 (BS) LCS6808663054	Chloroethane	148.0	60 - 138	10 - 138	percent	J/None	C	
LCS6808663054 (BS) LCS6808663054	Vinyl acetate	155.0	54 - 146	10 - 146	percent	J/None	C	
LCSD6808653265 (BD) LCSD6808653265	Vinyl acetate	218.0	54 - 146	10 - 146	percent	J/None	C	
LCSD6808653354 (BD) LCSD6808653354	Vinyl acetate	172.0	54 - 146	10 - 146	percent	J/None	C	
LCSD6808655825 (BD) LCSD6808655825	Vinyl acetate	242.0	54 - 146	10 - 146	percent	J/None	C	
LCSD6808660165 (BD) LCSD6808660165	Vinyl acetate	227.0	54 - 146	10 - 146	percent	J/None	C	
LCSD6808663055 (BD) LCSD6808663055	Chloroethane	145.0	60 - 138	10 - 138	percent	J/None	C	
LCSD6808663055 (BD) LCSD6808663055	Vinyl acetate	154.0	54 - 146	10 - 146	percent	J/None	C	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260D, MS Recovery

Data for matrix spikes/matrix spike duplicates (MS/MSD) are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. These data alone cannot be used to evaluate the precision and accuracy of individual samples. However, when exercising professional judgment, MS/MSD data can be used in conjunction with other available QC information. Reported results were evaluated to determine compliance with the required acceptance criteria, and summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
G6M-04-10A-FAL24 (MS) 680-258683-15	Bromomethane	174.0	53 - 141	10 - 141	percent	J/None	M	
G6M-04-10A-FAL24 (MS) 680-258683-15	Vinyl acetate	180.0	54 - 146	10 - 146	percent	J/None	M	
G6M-04-10A-FAL24 (SD) 680-258683-15	Bromomethane	216.0	53 - 141	10 - 141	percent	J/None	M	
G6M-04-10A-FAL24 (SD) 680-258683-15	Vinyl acetate	208.0	54 - 146	10 - 146	percent	J/None	M	
MW-3-FAL24 (MS) 680-258683-29	Chloroethane	193.0	60 - 138	10 - 138	percent	J/None	M	
MW-3-FAL24 (MS) 680-258683-29	Trichlorofluoromethane	230.0	65 - 141	10 - 141	percent	J/None	M	
MW-3-FAL24 (MS) 680-258683-29	Vinyl acetate	216.0	54 - 146	10 - 146	percent	J/None	M	
MW-3-FAL24 (SD) 680-258683-29	Trichlorofluoromethane	228.0	65 - 141	10 - 141	percent	J/None	M	
MW-3-FAL24 (SD) 680-258683-29	Vinyl acetate	228.0	54 - 146	10 - 146	percent	J/None	M	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260D, MS RPD

The objective of matrix spikes/matrix spike duplicates (MS/MSD) RPD analysis is to demonstrate acceptable method precision by the laboratory at the time of analysis. MS/MSD analyses are also performed to generate data that determines the long-term precision of the analytical method on various matrices. Non-homogenous samples can impact the apparent method precision. Summary forms were evaluated and compared to electronic data deliverables. Matrix spikes/matrix spike duplicates results that were outside of the acceptance criteria are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
G6M-04-10A-FAL24 (SD) 680-258683-15	1,2,3-Trichlorobenzene	24.89	< 20.0	< 20.0	rpd	J/None	D	
G6M-04-10A-FAL24 (SD) 680-258683-15	1,2,4-Trichlorobenzene	23.57	< 20.0	< 20.0	rpd	J/None	D	
G6M-04-10A-FAL24 (SD) 680-258683-15	Bromomethane	21.31	< 20.0	< 20.0	rpd	J/None	D	
G6M-04-10A-FAL24 (SD) 680-258683-15	Naphthalene	27.16	< 20.0	< 20.0	rpd	J/None	D	
G6M-04-10A-FAL24 (SD) 680-258683-15	Trichlorofluoromethane	22.27	< 20.0	< 20.0	rpd	J/None	D	
MW-3-FAL24 (SD) 680-258683-29	Chloroethane	82.25	< 20.0	< 20.0	rpd	J/None	D	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW9034, Test Hold Time

Hold times are ascertained based on project requirements. Holding times were determined by comparing the chain of custody records with the dates of analysis found in the electronic data deliverable and laboratory summary forms. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
G6M-02-01X-FAL24 (N) 680-258683-3		10.00	< 7.00	< 14.0	days	J/UJ	H1	Test Exceeds UWL
G6M-04-10A-FAL24 (N) 680-258683-15		10.14	< 7.00	< 14.0	days	J/UJ	H1	Test Exceeds UWL
G6M-07-01X-FAL24 (N) 680-258683-19		10.10	< 7.00	< 14.0	days	J/UJ	H1	Test Exceeds UWL

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the Test Hold Time for SW9034

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-02-01X-FAL24 680-258683-3	N	Sulfide	2.40	1.60 U H	1.60 UJ		mg/l	H1
G6M-04-10A-FAL24 680-258683-15	N	Sulfide	2.40	1.60 U H	1.60 UJ		mg/l	H1
G6M-07-01X-FAL24 680-258683-19	N	Sulfide	2.40	1.60 U H	1.60 UJ		mg/l	H1

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Table of All Qualified Results

Test Method: E353.2		Extraction Method: NONE						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-DUP02-FAL24 680-258683-1	FD	Nitrate-Nitrite (as N)	0.100	0.0260 J	0.100 U		mg/l	B2/L
G6M-02-01X-FAL24 680-258683-3	N	Nitrate-Nitrite (as N)	0.100	0.0270 J	0.100 U		mg/l	B2/L
G6M-04-10A-FAL24 680-258683-15	N	Nitrate-Nitrite (as N)	0.100	0.0180 J J1	0.0180 J	-	mg/l	M/TR
G6M-97-05B-FAL24 680-258683-27	N	Nitrate-Nitrite (as N)	0.100	0.0250 U J1	0.0250 UJ		mg/l	M

Test Method: RSK175		Extraction Method: METHOD						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-04-10A-FAL24 680-258683-15	N	Methane	1.20	890 J1	890 J	-	ug/l	M

Test Method: SW6020A		Extraction Method: FLDFLT						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-04-10A-FAL24 680-258683-15	N	Arsenic	5.00	260 J1	260 J	+	ug/l	M

Test Method: SW8260D		Extraction Method: SW5030C						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-DUP02-FAL24 680-258683-1	FD	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
AOC50-DUP04-FAL24 680-258683-2	FD	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
AOC50-RB-02-FAL24 680-258683-31	EB	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
AOC50-RB-03-FAL24 680-258683-32	EB	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
AOC50-RB-04-FAL24 680-258683-33	EB	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-02-01X-FAL24 680-258683-3	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-02-04X-FAL24 680-258683-4	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-02-06X-FAL24 680-258683-5	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-02-07X-FAL24 680-258683-6	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-02-12X-FAL24 680-258683-7	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-02-13X-FAL24 680-258683-8	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-03-08X-FAL24 680-258683-9	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-04-01X-FAL24 680-258683-10	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-04-05X-FAL24 680-258683-11	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5

Table of All Qualified Results

Test Method: SW8260D		Extraction Method: SW5030C						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-04-06X-FAL24 680-258683-12	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-04-07X-FAL24 680-258683-13	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-04-09X-FAL24 680-258683-14	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V5
G6M-04-10A-FAL24 680-258683-15	N	Vinyl acetate	2.50	2.00 UMQJ1	2.00 UJ		ug/l	V1/V5
G6M-04-10X-FAL24 680-258683-16	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-04-13X-FAL24 680-258683-17	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
G6M-04-13X-FAL24 680-258683-17	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-04-14X-FAL24 680-258683-18	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-07-01X-FAL24 680-258683-19	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-07-02X-FAL24 680-258683-20	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
G6M-07-02X-FAL24 680-258683-20	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-13-01X-FAL24 680-258683-21	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
G6M-13-01X-FAL24 680-258683-21	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-13-04X-FAL24 680-258683-22	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-13-05X-FAL24 680-258683-23	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-13-06X-FAL24 680-258683-24	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-95-19X-FAL24 680-258683-25	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
G6M-95-19X-FAL24 680-258683-25	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-95-20X-FAL24 680-258683-26	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
G6M-95-20X-FAL24 680-258683-26	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-97-05B-FAL24 680-258683-27	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
MW-3-FAL24 680-258683-29	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
MW-3-FAL24 680-258683-29	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
MW-7-FAL24 680-258683-30	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2/V5
MW-7-FAL24 680-258683-30	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
Trip Blank 680-258683-34	TB	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1

Table of All Qualified Results

Test Method: SW9034		Extraction Method: NONE						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-02-01X-FAL24 680-258683-3	N	Sulfide	2.40	1.60 U H	1.60 UJ		mg/l	H1
G6M-04-10A-FAL24 680-258683-15	N	Sulfide	2.40	1.60 U H	1.60 UJ		mg/l	H1
G6M-07-01X-FAL24 680-258683-19	N	Sulfide	2.40	1.60 U H	1.60 UJ		mg/l	H1

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOQ) based on the sample concentration.
In instances where no LOD is provided, results are reported down to the LOQ.
Trace values are not included in the qualified results table unless additional reason codes are associated.

Table of Results with Modified Qualifiers

Modified Qualifiers for test method E353.2

FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	ADR Result	ADR Flag/Bias	ADR Reason	Modified Result	Modified Flag/Bias	Reason
G6M-97-05B-FAL24 680-258683-27	N	Nitrate-Nitrite (as N)	0.100	0.0250 U J1	0.0250	U		0.0250	UJ	M

Modified Qualifiers for test method SW6020A, Dissolved

FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	ADR Result	ADR Flag/Bias	ADR Reason	Modified Result	Modified Flag/Bias	Reason
G6M-04-10A-FAL24 680-258683-15	N	Arsenic	5.00	260 J1	260			260	J+	M

Modified Qualifiers for test method SW8260D

FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	ADR Result	ADR Flag/Bias	ADR Reason	Modified Result	Modified Flag/Bias	Reason
AOC50-DUP02-FAL24 680-258683-1	FD	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
AOC50-DUP04-FAL24 680-258683-2	FD	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
AOC50-RB-02-FAL24 680-258683-31	EB	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
AOC50-RB-03-FAL24 680-258683-32	EB	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
AOC50-RB-04-FAL24 680-258683-33	EB	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-02-01X-FAL24 680-258683-3	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-02-04X-FAL24 680-258683-4	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-02-06X-FAL24 680-258683-5	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-02-07X-FAL24 680-258683-6	N	Vinyl acetate	2.50	2.00 U Q	2.00	X	V5	2.00	UJ	V1/V5
G6M-02-12X-FAL24 680-258683-7	N	Vinyl acetate	2.50	2.00 U Q	2.00	X	V5	2.00	UJ	V1/V5
G6M-02-13X-FAL24 680-258683-8	N	Vinyl acetate	2.50	2.00 U Q	2.00	X	V5	2.00	UJ	V1/V5
G6M-03-08X-FAL24 680-258683-9	N	Vinyl acetate	2.50	2.00 U Q	2.00	X	V5	2.00	UJ	V1/V5
G6M-04-01X-FAL24 680-258683-10	N	Vinyl acetate	2.50	2.00 U Q	2.00	X	V5	2.00	UJ	V1/V5

Table of Results with Modified Qualifiers

Modified Qualifiers for test method SW8260D

FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	ADR Result	ADR Flag/Bias	ADR Reason	Modified Result	Modified Flag/Bias	Reason
G6M-04-05X-FAL24 680-258683-11	N	Vinyl acetate	2.50	2.00 U Q	2.00	X	V5	2.00	UJ	V1/V5
G6M-04-06X-FAL24 680-258683-12	N	Vinyl acetate	2.50	2.00 U Q	2.00	X	V5	2.00	UJ	V1/V5
G6M-04-07X-FAL24 680-258683-13	N	Vinyl acetate	2.50	2.00 U Q	2.00	X	V5	2.00	UJ	V1/V5
G6M-04-09X-FAL24 680-258683-14	N	Vinyl acetate	2.50	2.00 U Q	2.00	X	V5	2.00	UJ	V1/V5
G6M-04-10A-FAL24 680-258683-15	N	Vinyl acetate	2.50	2.00 UMQJ1	2.00	X	V5	2.00	UJ	V1/V5
G6M-04-10X-FAL24 680-258683-16	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-04-13X-FAL24 680-258683-17	N	Bromomethane	20.0	10.0 U Q	10.0	X	V2/V5	10.0	UJ	V2/V5
G6M-04-13X-FAL24 680-258683-17	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-04-14X-FAL24 680-258683-18	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-07-01X-FAL24 680-258683-19	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-07-02X-FAL24 680-258683-20	N	Bromomethane	20.0	10.0 U Q	10.0	X	V2/V5	10.0	UJ	V2/V5
G6M-07-02X-FAL24 680-258683-20	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-13-01X-FAL24 680-258683-21	N	Bromomethane	20.0	10.0 U Q	10.0	X	V2/V5	10.0	UJ	V2/V5
G6M-13-01X-FAL24 680-258683-21	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-13-04X-FAL24 680-258683-22	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-13-05X-FAL24 680-258683-23	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-13-06X-FAL24 680-258683-24	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-95-19X-FAL24 680-258683-25	N	Bromomethane	20.0	10.0 U Q	10.0	X	V2/V5	10.0	UJ	V2/V5
G6M-95-19X-FAL24 680-258683-25	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1

Table of Results with Modified Qualifiers

Modified Qualifiers for test method SW8260D

FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	ADR Result	ADR Flag/Bias	ADR Reason	Modified Result	Modified Flag/Bias	Reason
G6M-95-20X-FAL24 680-258683-26	N	Bromomethane	20.0	10.0 U Q	10.0	X	V2/V5	10.0	UJ	V2/V5
G6M-95-20X-FAL24 680-258683-26	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-97-05B-FAL24 680-258683-27	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
MW-3-FAL24 680-258683-29	N	Bromomethane	20.0	10.0 U Q	10.0	X	V2/V5	10.0	UJ	V2/V5
MW-3-FAL24 680-258683-29	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
MW-7-FAL24 680-258683-30	N	Bromomethane	20.0	10.0 U Q	10.0	X	V2/V5	10.0	UJ	V2/V5
MW-7-FAL24 680-258683-30	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
Trip Blank 680-258683-34	TB	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOQ) based on the sample concentration.
In instances where no LOD is provided, results are reported down to the LOQ.
Trace values are not included in the qualified results table unless additional reason codes are associated.

Reason Code Definitions

Code	Definition
B2	CCB
H1	Test Hold Time
L	Lab Blank
M	MS Recovery
TR	Trace Level Detect
V1	ICV
V2	CCV
V5	Ending Continuing Calibration Verification

Flag Code and Definitions

Flag	Definition
J	Estimated Value
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Bias

-	The result may be biased low
+	The result may be biased high

Note - The bias field is a separate field; however, it is an integral part of the final flag (qualifier) on the sample result

Sample Types

SACODE	Definition
BD	Blank Spike Duplicate
BS	Blank Spike
CB	Calibration Blank
CV	Continuing Calibration Verification
EB	Equipment Blank
FD	Field Duplicate
IA	Interference Check Sample-A
IB	Interference Check Sample-AB
LB	Laboratory Blank
MS	Matrix Spike
N	Normal
SD	Matrix Spike Duplicate
TB	Trip Blank

Review Questions

Method: A2320B (Alkalinity by Titrimetric Method)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: E353.2 (Nitrogen, Nitrate-Nitrite (Colorimetric Automated, Cadmium Reduction))

Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?		•		Results qualified U at the LOQ due to CCB detect.
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?		•		Results qualified U at the LOQ due to MB detect.
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?		•		Several results qualified J-(detects) or UJ(non-detects) due to MS/MSD %R lower than %R limits.
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: RSK175 (Dissolved Gas Analysis in Water Samples Using a GC Headspace Equilibrium Technique)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Were the required minimum levels of calibration standards used in the initial calibration?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Were surrogate recoveries within project acceptance limits?			•	Not applicable to this method.
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?		•		Result qualified J- due to MS/MSD %R lower than %R limits.
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were DoD QSM corrective actions followed if deviations were noted?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW6010C (Trace Metals by Inductively Coupled Plasma/Atomic Emission Spectrometry)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?	•			
Were target analytes reported in the field blank(s) less than MDL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?		•		MS/MSD %R lower than %R limits but no results were qualified as sample result >4x spike.
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW6020A (Trace Metals by Inductively Coupled Plasma/Mass Spectrometry)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?	•			
Were target analytes reported in the field blank(s) less than MDL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?		•		Result qualified J+ due to MS/MSD %R greater than %R limits.
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW8260D (Volatile Organic Compounds by GC/MS)

Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?		•		Results qualified UJ due to CCV %D lower than %D limits.
Were the required minimum levels of calibration standards used in the initial calibration?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?		•		Results qualified UJ due to ICV %D lower than %D limits.
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?		•		Analyte detected in the CCB but no results were qualified.
Were surrogate recoveries within project acceptance limits?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?		•		Analyte detected in the MB but no results were qualified.
Were field blanks (EBs or FBs) submitted with these samples?	•			
Were target analytes reported in the field blank(s) less than MDL?		•		Analyte detected in the EB and TB but no results were qualified.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?		•		LCS/LCSD %R greater than %R limits but no results were qualified
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?		•		MS/MSD %R greater than %R limits but no results were qualified.
Was the MS/MSD RPD within project acceptance limits?		•		MS/MSD RPD greater than RPD limits but no results were qualified.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were DoD QSM corrective actions followed if deviations were noted?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW9034 (Titrimetric Procedure for Acid-Soluble and Acid-Insoluble Sulfides)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?		•		Several results qualified UJ due to analysis outside of the holding time.
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?	•			
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW9056A (Anion Chromatography)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?	•			
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW9060A (Total Organic Carbon)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?	•			
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-07-02X	A2320B (mg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Alkalinity, Total (as CaCO3)	62.0	66.0	5.50	6.25	30	OK	4.00	NA

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-07-02X	E353.2 (mg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Nitrate-Nitrite (as N)	0.0300	ND	0.10	NA	30	NA	0.0300	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-07-02X	RSK175 (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Ethane	1.90	0.920	1.10	69.5	30	NA	0.980	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Ethene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Methane	12000	13000	1.20	8.00	30	OK	1000	NA

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-07-02X	SW6010C (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Iron (FLDFLT)	78000	84000	100.00	7.41	30	OK	6000	NA
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Manganese (FLDFLT)	2400	2500	10.00	4.08	30	OK	100	NA

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-07-02X	SW6020A (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Arsenic (FLDFLT)	60.0	65.0	5.00	8.00	30	OK	5.00	NA

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-07-02X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,1,1,2-Tetrachloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,1,1-Trichloroethane	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,1,2,2-Tetrachloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,1,2-Trichloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,1-Dichloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,1-Dichloroethene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,1-Dichloropropene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,2,3-Trichlorobenzene	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,2,3-Trichloropropane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,2,4-Trichlorobenzene	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,2,4-Trimethylbenzene	1.00	1.10	2.00	9.52	30	NA	0.100	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,2-Dibromo-3-chloropropane	ND	ND	10.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,2-Dibromoethane (EDB)	ND	ND	2.00	NA	30	NA	0.00	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-07-02X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,2-Dichlorobenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,2-Dichloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,2-Dichloroethene	0.470	0.490	2.00	4.17	30	NA	0.0200	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,2-Dichloropropane	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,3,5-Trimethylbenzene	ND	0.340	2.00	NA	30	NA	0.340	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,3-Dichlorobenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,3-Dichloropropane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	1,4-Dichlorobenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	2,2-Dichloropropane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	2-Butanone (MEK)	ND	ND	25.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	2-Chlorotoluene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	2-Hexanone	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	4-Chlorotoluene	ND	ND	2.00	NA	30	NA	0.00	OK

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RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-07-02X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	4-Methyl-2-pentanone (MIBK)	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Acetone	ND	ND	25.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Benzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Bromobenzene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Bromochloromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Bromodichloromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Bromoform	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Bromomethane	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Carbon disulfide	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Carbon Tetrachloride	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Chlorobenzene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Chloroethane	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Chloroform	ND	ND	2.00	NA	30	NA	0.00	OK

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Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-07-02X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Chloromethane	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	cis-1,2-Dichloroethene	0.470	0.490	2.00	4.17	30	NA	0.0200	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	cis-1,3-Dichloropropene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Cumene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Dibromochloromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Dibromomethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Dichlorodifluoromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Ethylbenzene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Hexachlorobutadiene	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	m,p-Xylene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Methyl tert-butyl ether (MTBE)	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Methylene chloride	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Naphthalene	ND	3.60	10.00	NA	30	NA	3.60	OK

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Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-07-02X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	n-Butylbenzene	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	n-Propylbenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	o-Xylene	ND	0.330	2.00	NA	30	NA	0.330	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	p-Cymene (p-Isopropyltoluene)	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	sec-Butylbenzene	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Styrene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	tert-Butylbenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Tetrachloroethene (PCE)	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Toluene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	trans-1,2-Dichloroethene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	trans-1,3-Dichloropropene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Trichloroethene (TCE)	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Trichlorofluoromethane	ND	ND	2.00	NA	30	NA	0.00	OK

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Field Duplicates By SDG
Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-07-02X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Vinyl acetate	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Vinyl chloride	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Xylenes, Total	ND	ND	2.00	NA	30	NA	0.00	OK

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RL = Reporting Limit
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Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-07-02X	SW9034 (mg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Sulfide	ND	1.70	2.50	NA	30	NA	1.70	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-07-02X	SW9056A (mg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Sulfate	ND	ND	1.50	NA	30	NA	0.00	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-07-02X	SW9060A (mg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-07-02X-FAL24 AOC50-DUP02-FAL24	680-258683-20 680-258683-1	Total Organic Carbon	50.0	52.0	1.00	3.92	30	OK	2.00	NA

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-95-20X	SW6010C (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Iron (FLDFLT)	15000	15000	100.00	0.00	30	OK	0.00	NA
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Manganese (FLDFLT)	1200	1100	10.00	8.70	30	OK	100	NA

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-95-20X	SW6020A (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Arsenic (FLDFLT)	35.0	32.0	5.00	8.96	30	OK	3.00	NA

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-95-20X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,1,1,2-Tetrachloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,1,1-Trichloroethane	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,1,2,2-Tetrachloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,1,2-Trichloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,1-Dichloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,1-Dichloroethene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,1-Dichloropropene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,2,3-Trichlorobenzene	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,2,3-Trichloropropane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,2,4-Trichlorobenzene	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,2,4-Trimethylbenzene	0.440	0.490	2.00	10.8	30	NA	0.0500	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,2-Dibromo-3-chloropropane	ND	ND	10.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,2-Dibromoethane (EDB)	ND	ND	2.00	NA	30	NA	0.00	OK

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Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-95-20X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,2-Dichlorobenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,2-Dichloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,2-Dichloroethene	1.10	0.960	2.00	13.6	30	NA	0.140	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,2-Dichloropropane	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,3,5-Trimethylbenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,3-Dichlorobenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,3-Dichloropropane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	1,4-Dichlorobenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	2,2-Dichloropropane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	2-Butanone (MEK)	ND	ND	25.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	2-Chlorotoluene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	2-Hexanone	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	4-Chlorotoluene	ND	ND	2.00	NA	30	NA	0.00	OK

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Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

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Location G6M-95-20X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	4-Methyl-2-pentanone (MIBK)	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Acetone	ND	ND	25.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Benzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Bromobenzene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Bromochloromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Bromodichloromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Bromoform	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Bromomethane	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Carbon disulfide	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Carbon Tetrachloride	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Chlorobenzene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Chloroethane	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Chloroform	ND	ND	2.00	NA	30	NA	0.00	OK

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Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

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Location G6M-95-20X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Chloromethane	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	cis-1,2-Dichloroethene	1.10	0.960	2.00	13.6	30	NA	0.140	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	cis-1,3-Dichloropropene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Cumene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Dibromochloromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Dibromomethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Dichlorodifluoromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Ethylbenzene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Hexachlorobutadiene	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	m,p-Xylene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Methyl tert-butyl ether (MTBE)	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Methylene chloride	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Naphthalene	ND	ND	10.00	NA	30	NA	0.00	OK

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Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

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Location G6M-95-20X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	n-Butylbenzene	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	n-Propylbenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	o-Xylene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	p-Cymene (p-Isopropyltoluene)	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	sec-Butylbenzene	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Styrene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	tert-Butylbenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Tetrachloroethene (PCE)	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Toluene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	trans-1,2-Dichloroethene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	trans-1,3-Dichloropropene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Trichloroethene (TCE)	0.230	0.270	1.00	16.0	30	NA	0.0400	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Trichlorofluoromethane	ND	ND	2.00	NA	30	NA	0.00	OK

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Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258683-1

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Location	Analysis
G6M-95-20X	SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Vinyl acetate	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Vinyl chloride	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-95-20X-FAL24 AOC50-DUP04-FAL24	680-258683-26 680-258683-2	Xylenes, Total	ND	ND	2.00	NA	30	NA	0.00	OK

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LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

ARCADIS U.S., Inc.
3109 West Martin Luther King Jr. Blvd, Suite 350
Tampa, FL 33607
ATTN: Mr. Nathan Mullens
nrmullens@seres-es.com

February 13, 2025

SUBJECT: Fort Devens - Data Validation

Dear Mr. Mullens,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on January 27, 2024. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #60444_B:

SDG #	**Fraction**
680-258802-1	Volatiles, Metals, Total Organic Carbons

The data validation was performed under Stage 2B guidelines. The analysis was validated using the following documents, as applicable to each method:

- Quality Assurance Project Plan, Long Term Monitoring Program, Former Fort Devens, 2020
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

LDC #60444 (Arcadis - Tampa, FL / Fort Devens)

LDC	SDG#	Received Date	(21) Due Date	Validation Level	DOC (9060A)	Chloride, Sulfate (9056A)	Fe & Mn (6010C)	Ethane, Ethene (RSK-175)	(8)Diss. Metals (6010C)	(8) Metals (6010C)
Matrix Type:					Water	Water	Water	Water	Water	Water
A	680-258306-1	1/27/25	2/17/25	Stage 2B	28	28	3	3	2	2
B	680-258802-1	1/27/25	2/17/25	Stage 2B	0	0	0	0	0	0
C	680-258959-2	1/27/25	2/17/25	Stage 2B	0	0	0	0	0	0
D	680-258965-1	1/27/25	2/17/25	Stage 2B	0	1	0	0	0	1
E	680-259163-1	1/27/25	2/17/25	Stage 2B	0	3	0	0	0	3
Total			PM: PG		**28**	**32**	**3**	**3**	**2**	**6**

LDC	SDG#	Received Date	(21) Due Date	Validation Level	Alkalinity (2320B)	Diss. Fe & Mn (6010C)	Diss. As (6020A)	Mercury (7470A)	Pesticides (8081B)	PCBs (8082A)
Matrix Type:					Water	Water	Water	Water	Water	Water
A	680-258306-1	1/27/25	2/17/25	Stage 2B	28	26	28	0	0	0
B	680-258802-1	1/27/25	2/17/25	Stage 2B	5	15	15	0	0	0
C	680-258959-2	1/27/25	2/17/25	Stage 2B	0	0	0	0	0	1
D	680-258965-1	1/27/25	2/17/25	Stage 2B	1	0	0	1	1	0
E	680-259163-1	1/27/25	2/17/25	Stage 2B	3	0	0	3	6	0
Total			PM: PG		**37**	**41**	**43**	**4**	**7**	**1**

LDC	SDG#	Received Date	(21) Due Date	Validation Level	VOCs (8260D)	Cyanide (9012B)	Sulfide (9034)	Sulfate (9056A)	TOC (9060A)	Ammonia-N (350.1)
Matrix Type:					Water	Water	Water	Water	Water	Water
A	680-258306-1	1/27/25	2/17/25	Stage 2B	0	0	0	0	0	1
B	680-258802-1	1/27/25	2/17/25	Stage 2B	16	0	5	5	5	0
C	680-258959-2	1/27/25	2/17/25	Stage 2B	0	0	0	0	0	0
D	680-258965-1	1/27/25	2/17/25	Stage 2B	0	0	0	0	0	0
E	680-259163-1	1/27/25	2/17/25	Stage 2B	0	3	0	0	0	0
Total			PM: PG		**16**	**3**	**5**	**5**	**5**	**1**

LDC #60444 (Arcadis - Tampa, FL / Fort Devens)

LDC	SDG#	Received Date	(21) Due Date	Validation Level	Nitrate/ Nitrite-N (353.2)	COD (410.4)	As (6020A)	Methane, Ethane, Ethene (RSK-175)	EPH (MADEP-EPH)	VPH (MADEP-VPH)
Matrix Type:					Water	Water	Water	Water	Water	Water
A	680-258306-1	1/27/25	2/17/25	Stage 2B	0	0	5	0	0	0
B	680-258802-1	1/27/25	2/17/25	Stage 2B	5	0	0	5	0	0
C	680-258959-2	1/27/25	2/17/25	Stage 2B	0	0	0	0	0	0
D	680-258965-1	1/27/25	2/17/25	Stage 2B	1	0	1	0	1	2
E	680-259163-1	1/27/25	2/17/25	Stage 2B	3	3	3	0	3	3
Total			PM: PG		**9**	**3**	**9**	**5**	**4**	**5**

LDC	SDG#	Received Date	(21) Due Date	Validation Level	TDS (2540C)
Matrix Type:					Water
A	680-258306-1	1/27/25	2/17/25	Stage 2B	0
B	680-258802-1	1/27/25	2/17/25	Stage 2B	0
C	680-258959-2	1/27/25	2/17/25	Stage 2B	0
D	680-258965-1	1/27/25	2/17/25	Stage 2B	1
E	680-259163-1	1/27/25	2/17/25	Stage 2B	3
Total			PM: PG		**4**

These sample counts do not include MS/MSD, and DUPs.

EDD: EQuIS

Data Validation Report for 680-258802-1

Project:	Former Fort Devens, Long Term Monitoring
Event:	Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024
SDG:	680-258802-1
Guidance Document:	Quality Assurance Project Plan, Long Term Monitoring Program, Former Fort Devens, 2020
Prime Contractor:	Seres - Arcadis SB Joint Venture, LLC, Charleston, SC
Project Manager:	Jennifer Singer
Contract Laboratory(ies):	Eurofins Environment Testing TestAmerica, Savannah, GA
Data Review Contractor:	Laboratory Data Consultants, Inc.
Data Review Level:	2B
Primary Data Reviewer:	Long Ngo, Environmental Scientist
Second Reviewer:	Pei Geng, Senior Scientist
Date Submitted:	February 12, 2025

Field Sample ID	Lab Sample ID	Matrix	Type/Type Code	A2320B	E353.2	RSK175	SW6010C - Dissolved	SW6020A - Dissolved	SW8260D	SW9034	SW9056A	SW9060A
AOC50-DUP01-FAL24	680-258802-1	Water	Field Duplicate/FD				X	X	X			
AOC50-DUP03-FAL24	680-258802-2	Water	Field Duplicate/FD	X	X	X	X	X	X	X	X	X
AOC50-RB05-FAL24	680-258802-13	Water	Equipment Blank/EB				X	X	X			
AOC50-RB06-FAL24	680-258802-14	Water	Equipment Blank/EB				X	X	X			
AOC50-RB-07-FAL24	680-258802-16	Water	Equipment Blank/EB				X	X	X			
AOC50-Trip Blank	680-258802-15	Water	Trip Blank/TB						X			
G6M-02-08X-FAL24	680-258802-3	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-03-07X-FAL24	680-258802-4	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-03-10X-FAL24	680-258802-5	Water	Field Sample/N				X	X	X			
G6M-04-03X-FAL24	680-258802-6	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
G6M-04-04X-FAL24	680-258802-7	Water	Field Sample/N				X	X	X			
G6M-04-11X-FAL24	680-258802-8	Water	Field Sample/N				X	X	X			
G6M-13-02X-FAL24	680-258802-9	Water	Field Sample/N	X	X	X	X	X	X	X	X	X
XSA-12-95X-FAL24	680-258802-10	Water	Field Sample/N				X	X	X			
XSA-12-96X-FAL24	680-258802-11	Water	Field Sample/N				X	X	X			
XSA-12-98X-FAL24	680-258802-12	Water	Field Sample/N				X	X	X			

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page at 2B data validation level. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Quality Assurance Project Plan, Long Term Monitoring Program, Former Fort Devens, 2020 and the additional guidance documents incorporated by reference to the extent possible. Where definitive guidance is not provided, results have been evaluated in a conservative manner using professional judgment.

Sample collection was managed and directed by Seres - Arcadis SB Joint Venture, LLC, Charleston, SC; analyses were performed by Eurofins Environment Testing TestAmerica, Savannah, GA and were reported under sample delivery group (SDG) 680-258802-1. Data have been evaluated electronically based on electronic data deliverables (EDDs) provided by the laboratory, and hard copy data summary forms have also been reviewed during this effort and compared to the automated review output by the reviewers whose signatures appear on the following page. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative and throughout this report.

All quality control (QC) elements associated with this SDG have been reviewed by a project chemist in accordance with the requirements defined for the project. This review is documented in the attached Data Review Checklists. The QC elements listed below were supported by the electronic deliverable and were evaluated using ADR processes.

- Blank - Negative
- Calibration Blank
- Continuing Calibration Verification
- Equipment Blank
- Field Duplicate RPD
- Interference Check Sample A
- Interference Check Sample A - Negative
- Interference Check Sample AB
- Lab Blank
- LCS Recovery
- LCS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

Results of the ADR process were subsequently reviewed and updated as applicable by the data review chemists identified on the signature page. Quality control elements that were not included in the electronic deliverable were reviewed manually and findings are documented within this report. Summaries of findings and associated qualified results are documented throughout this report.

A total of 37 results (3.15%) out of the 1173 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected or deemed a serious deficiency (X qualifier). Trace values, defined as results that are qualified as estimated because they fall between the detection limit and the reporting limit/limit of quantitation, are not counted as qualified results in the above count. The qualified results are detailed throughout this report and discussed in the narrative below, where appropriate.

Narrative Comments

Analytical Method	Data Reviewer Comment
A2320B	No additional comments; see Checklist for detail.
E353.2	No additional comments; see Checklist for detail.
RSK175	No additional comments; see Checklist for detail.
SW6010C	No additional comments; see Checklist for detail.
SW6020A	No additional comments; see Checklist for detail.
SW8260D	No additional comments; see Checklist for detail.
SW9034	No additional comments; see Checklist for detail.
SW9056A	No additional comments; see Checklist for detail.
SW9060A	No additional comments; see Checklist for detail.



February 12, 2025

Reviewed by Long Ngo, Environmental Scientist, Laboratory Data Consultants, Inc.

As the First Reviewer, I certify that I have performed a data review process in accordance with the requirements of the project guidance document, and have compared the electronic data to the laboratory's hard copy report and have verified the consistency of the reported sample results and method quality control data between the two deliverables.



Reviewed by Pei Geng, Senior Scientist, Laboratory Data Consultants, Inc.

February 13, 2025

As the Second Reviewer, I certify that I have performed a quality assurance review of the report generated by the First Reviewer.

Quality Control Outliers for test method SW8260D, Equipment Blank

The purpose of equipment blanks is to determine the existence and magnitude of cross-contamination problems resulting from the process during sampling. Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and contaminants found in equipment blanks are listed below along with any associated qualified results.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
AOC50-RB06-FAL24 (EB) 680-258802-14	Toluene	0.7100	< 0.250	< 2.00	ug/l	U/None*	V	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

*Blank flags displayed in the above table identify qualification of the sample result when it is less than or equal to the LOQ/RL. Sample results above the LOD or LOQ will be qualified based on the validation guidance assigned in the project setup.

Qualified Results associated with the Equipment Blank for SW8260D

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-DUP01-FAL24 680-258802-1	FD	Toluene	2.00	0.690 J M	2.00 U		ug/l	V
AOC50-DUP03-FAL24 680-258802-2	FD	Toluene	2.00	0.680 J M	2.00 U		ug/l	V
G6M-03-07X-FAL24 680-258802-4	N	Toluene	2.00	0.730 J	2.00 U		ug/l	V
G6M-04-03X-FAL24 680-258802-6	N	Toluene	2.00	0.560 J	2.00 U		ug/l	V

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method SW8260D, Lab Blank

The purpose of laboratory blanks is to determine the existence and magnitude of cross-contamination problems resulting from laboratory activities. Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and contaminants found in laboratory blanks are listed below along with any associated qualified results.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
MB6808665418 (LB) MB6808665418	n-Butylbenzene	0.8310	< 0.520	< 2.50	ug/l	U/None*	L	
MB6808666818 (LB) MB6808666818	Acetone	6.090	< 3.70	< 25.0	ug/l	U/None*	L	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

*Blank flags displayed in the above table identify qualification of the sample result when it is less than or equal to the LOQ/RL. Sample results above the LOD or LOQ will be qualified based on the validation guidance assigned in the project setup.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260D, Continuing Calibration Verification

Compliance requirements for satisfactory continuing calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data. Continuing calibration is performed to verify and evaluate instrument performance during sample analysis. Summary forms were evaluated against project acceptance criteria, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
CCVIS6808663053 (CV) CCVIS6808663053	Bromomethane	54.00	80 - 120	80 - 120	percent	J/X	V2	
CCVIS6808663053 (CV) CCVIS6808663053	Chloroethane	147.0	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808663053 (CV) CCVIS6808663053	Vinyl acetate	165.0	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808666663 (CV) CCVIS6808666663	Vinyl acetate	160.0	80 - 120	80 - 120	percent	J/None	V2	
CCVIS6808666783 (CV) CCVIS6808666783	Vinyl acetate	187.0	80 - 120	80 - 120	percent	J/None	V2	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the Continuing Calibration Verification for SW8260D

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-RB05-FAL24 680-258802-13	EB	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2
AOC50-RB06-FAL24 680-258802-14	EB	Bromomethane	20.0	10.0 U	10.0 UJ		ug/l	V2
AOC50-RB06-FAL24 680-258802-14	EB	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V2
AOC50-RB-07-FAL24 680-258802-16	EB	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V2
AOC50-Trip Blank 680-258802-15	TB	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V2
G6M-02-08X-FAL24 680-258802-3	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2
G6M-03-10X-FAL24 680-258802-5	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2
XSA-12-95X-FAL24 680-258802-10	N	Bromomethane	20.0	10.0 U	10.0 UJ		ug/l	V2
XSA-12-95X-FAL24 680-258802-10	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V2
XSA-12-96X-FAL24 680-258802-11	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2
XSA-12-98X-FAL24 680-258802-12	N	Bromomethane	20.0	10.0 U	10.0 UJ		ug/l	V2
XSA-12-98X-FAL24 680-258802-12	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V2

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method SW8260D, Ending Continuing Calibration Verification

Compliance requirements for satisfactory closing continuing calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data. Continuing calibration is performed to verify and evaluate instrument performance during sample analysis. Summary forms were evaluated against project acceptance criteria, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
CCVC68086667813 (EV) CCVC68086667813	Vinyl acetate	162.0	50 - 150	50 - 150	percent	J/None	V5	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260D, Field Duplicate RPD

Field duplicate analyses are performed in order to assess sample collection/laboratory precision for each sample matrix. Summary forms were evaluated and compared to electronic data deliverables. Field duplicate results that were outside of the acceptance criteria are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
AOC50-DUP03-FAL24 (N) 680-258802-2	1,2-Dichloroethene	2.380	< 2.00	< 2.00	ug/l	J/UJ	D3	
AOC50-DUP03-FAL24 (N) 680-258802-2	cis-1,2-Dichloroethene	2.900	< 2.00	< 2.00	ug/l	J/UJ	D3	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the Field Duplicate RPD for SW8260D

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-DUP03-FAL24 680-258802-2	FD	1,2-Dichloroethene	2.00	2.90	2.90 J		ug/l	D3
AOC50-DUP03-FAL24 680-258802-2	FD	cis-1,2-Dichloroethene	2.00	2.90 M	2.90 J		ug/l	D3
G6M-13-02X-FAL24 680-258802-9	N	1,2-Dichloroethene	2.00	0.520 J	0.520 J		ug/l	D3/TR
G6M-13-02X-FAL24 680-258802-9	N	cis-1,2-Dichloroethene	2.00	1.00 U	1.00 UJ		ug/l	D3

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method SW8260D, LCS Recovery

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Reported results were evaluated to determine compliance with the required acceptance criteria, and summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
LCS6808663054 (BS) LCS6808663054	Chloroethane	148.0	60 - 138	10 - 138	percent	J/None	C	
LCS6808663054 (BS) LCS6808663054	Vinyl acetate	155.0	54 - 146	10 - 146	percent	J/None	C	
LCS6808666664 (BS) LCS6808666664	Vinyl acetate	167.0	54 - 146	10 - 146	percent	J/None	C	
LCS6808666784 (BS) LCS6808666784	Vinyl acetate	165.0	54 - 146	10 - 146	percent	J/None	C	
LCSD6808663055 (BD) LCSD6808663055	Chloroethane	145.0	60 - 138	10 - 138	percent	J/None	C	
LCSD6808663055 (BD) LCSD6808663055	Vinyl acetate	154.0	54 - 146	10 - 146	percent	J/None	C	
LCSD6808666665 (BD) LCSD6808666665	Vinyl acetate	159.0	54 - 146	10 - 146	percent	J/None	C	
LCSD6808666785 (BD) LCSD6808666785	Vinyl acetate	166.0	54 - 146	10 - 146	percent	J/None	C	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260D, LCS RPD

The objective of laboratory control sample/laboratory control sample duplicate (LCS/LCSD) RPD analysis is to demonstrate acceptable method precision by the laboratory at the time of analysis. LCS/LCSD analyses are also performed to generate data that determines the long-term precision of the analytical method on various matrices. Non-homogenous samples can impact the apparent method precision. Summary forms were evaluated and compared to electronic data deliverables. Laboratory control sample/laboratory control sample duplicate RPD results that were outside of the acceptance criteria are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
LCSD6808666815 (BD) LCSD6808666815	1,2,3-Trichlorobenzene	30.88	< 20.0	< 20.0	rpd	J/None	Z	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Table of All Qualified Results

Test Method: SW8260D		Extraction Method: SW5030C						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
AOC50-DUP01-FAL24 680-258802-1	FD	Toluene	2.00	0.690 J M	2.00 U		ug/l	V
AOC50-DUP01-FAL24 680-258802-1	FD	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
AOC50-DUP03-FAL24 680-258802-2	FD	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00 UJ		ug/l	V2
AOC50-DUP03-FAL24 680-258802-2	FD	1,2-Dichloroethene	2.00	2.90	2.90 J		ug/l	D3
AOC50-DUP03-FAL24 680-258802-2	FD	cis-1,2-Dichloroethene	2.00	2.90 M	2.90 J		ug/l	D3
AOC50-DUP03-FAL24 680-258802-2	FD	Toluene	2.00	0.680 J M	2.00 U		ug/l	V
AOC50-DUP03-FAL24 680-258802-2	FD	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
AOC50-RB05-FAL24 680-258802-13	EB	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2
AOC50-RB06-FAL24 680-258802-14	EB	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00 UJ		ug/l	V2
AOC50-RB06-FAL24 680-258802-14	EB	Bromomethane	20.0	10.0 U	10.0 UJ		ug/l	V2
AOC50-RB06-FAL24 680-258802-14	EB	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V2
AOC50-RB-07-FAL24 680-258802-16	EB	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00 UJ		ug/l	V2
AOC50-RB-07-FAL24 680-258802-16	EB	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V2
AOC50-Trip Blank 680-258802-15	TB	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00 UJ		ug/l	V2
AOC50-Trip Blank 680-258802-15	TB	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V2
G6M-02-08X-FAL24 680-258802-3	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2
G6M-02-08X-FAL24 680-258802-3	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-03-07X-FAL24 680-258802-4	N	Toluene	2.00	0.730 J	2.00 U		ug/l	V
G6M-03-07X-FAL24 680-258802-4	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-03-10X-FAL24 680-258802-5	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2
G6M-04-03X-FAL24 680-258802-6	N	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00 UJ		ug/l	V2
G6M-04-03X-FAL24 680-258802-6	N	Toluene	2.00	0.560 J	2.00 U		ug/l	V
G6M-04-03X-FAL24 680-258802-6	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-04-04X-FAL24 680-258802-7	N	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00 UJ		ug/l	V2
G6M-04-04X-FAL24 680-258802-7	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-04-11X-FAL24 680-258802-8	N	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00 UJ		ug/l	V2

Table of All Qualified Results

Test Method: SW8260D		Extraction Method: SW5030C						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
G6M-04-11X-FAL24 680-258802-8	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
G6M-13-02X-FAL24 680-258802-9	N	1,2-Dichloroethene	2.00	0.520 J	0.520 J		ug/l	D3/TR
G6M-13-02X-FAL24 680-258802-9	N	cis-1,2-Dichloroethene	2.00	1.00 U	1.00 UJ		ug/l	D3
G6M-13-02X-FAL24 680-258802-9	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1
XSA-12-95X-FAL24 680-258802-10	N	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00 UJ		ug/l	V2
XSA-12-95X-FAL24 680-258802-10	N	Bromomethane	20.0	10.0 U	10.0 UJ		ug/l	V2
XSA-12-95X-FAL24 680-258802-10	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V2
XSA-12-96X-FAL24 680-258802-11	N	Bromomethane	20.0	10.0 U Q	10.0 UJ		ug/l	V2
XSA-12-98X-FAL24 680-258802-12	N	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00 UJ		ug/l	V2
XSA-12-98X-FAL24 680-258802-12	N	Bromomethane	20.0	10.0 U	10.0 UJ		ug/l	V2
XSA-12-98X-FAL24 680-258802-12	N	Vinyl acetate	2.50	2.00 U Q	2.00 UJ		ug/l	V1/V2

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOQ) based on the sample concentration.
In instances where no LOD is provided, results are reported down to the LOQ.
Trace values are not included in the qualified results table unless additional reason codes are associated.

Table of Results with Modified Qualifiers

Modified Qualifiers for test method SW8260D

FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	ADR Result	ADR Flag/Bias	ADR Reason	Modified Result	Modified Flag/Bias	Reason
AOC50-DUP01-FAL24 680-258802-1	FD	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
AOC50-DUP03-FAL24 680-258802-2	FD	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00	U		5.00	UJ	V2
AOC50-DUP03-FAL24 680-258802-2	FD	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
AOC50-RB05-FAL24 680-258802-13	EB	Bromomethane	20.0	10.0 U Q	10.0	X	V2	10.0	UJ	V2
AOC50-RB06-FAL24 680-258802-14	EB	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00	U		5.00	UJ	V2
AOC50-RB06-FAL24 680-258802-14	EB	Bromomethane	20.0	10.0 U	10.0	U		10.0	UJ	V2
AOC50-RB06-FAL24 680-258802-14	EB	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1/V2
AOC50-RB-07-FAL24 680-258802-16	EB	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00	U		5.00	UJ	V2
AOC50-RB-07-FAL24 680-258802-16	EB	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1/V2
AOC50-Trip Blank 680-258802-15	TB	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00	U		5.00	UJ	V2
AOC50-Trip Blank 680-258802-15	TB	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1/V2
G6M-02-08X-FAL24 680-258802-3	N	Bromomethane	20.0	10.0 U Q	10.0	X	V2	10.0	UJ	V2
G6M-02-08X-FAL24 680-258802-3	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-03-07X-FAL24 680-258802-4	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-03-10X-FAL24 680-258802-5	N	Bromomethane	20.0	10.0 U Q	10.0	X	V2	10.0	UJ	V2
G6M-04-03X-FAL24 680-258802-6	N	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00	U		5.00	UJ	V2
G6M-04-03X-FAL24 680-258802-6	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-04-04X-FAL24 680-258802-7	N	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00	U		5.00	UJ	V2
G6M-04-04X-FAL24 680-258802-7	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1

Table of Results with Modified Qualifiers

Modified Qualifiers for test method SW8260D

FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	ADR Result	ADR Flag/Bias	ADR Reason	Modified Result	Modified Flag/Bias	Reason
G6M-04-11X-FAL24 680-258802-8	N	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00	U		5.00	UJ	V2
G6M-04-11X-FAL24 680-258802-8	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
G6M-13-02X-FAL24 680-258802-9	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1
XSA-12-95X-FAL24 680-258802-10	N	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00	U		5.00	UJ	V2
XSA-12-95X-FAL24 680-258802-10	N	Bromomethane	20.0	10.0 U	10.0	U		10.0	UJ	V2
XSA-12-95X-FAL24 680-258802-10	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1/V2
XSA-12-96X-FAL24 680-258802-11	N	Bromomethane	20.0	10.0 U Q	10.0	X	V2	10.0	UJ	V2
XSA-12-98X-FAL24 680-258802-12	N	1,2-Dibromo-3-chloropropane	10.0	5.00 U	5.00	U		5.00	UJ	V2
XSA-12-98X-FAL24 680-258802-12	N	Bromomethane	20.0	10.0 U	10.0	U		10.0	UJ	V2
XSA-12-98X-FAL24 680-258802-12	N	Vinyl acetate	2.50	2.00 U Q	2.00	U		2.00	UJ	V1/V2

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOQ) based on the sample concentration.
In instances where no LOD is provided, results are reported down to the LOQ.
Trace values are not included in the qualified results table unless additional reason codes are associated.

Reason Code Definitions

Code	Definition
D3	Field Duplicate RPD
TR	Trace Level Detect
V	Equipment Blank
V1	ICV
V2	CCV

Flag Code and Definitions

Flag	Definition
J	Estimated Value
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Bias

-	The result may be biased low
+	The result may be biased high
Note - The bias field is a separate field; however, it is an integral part of the final flag (qualifier) on the sample result	

Sample Types

SACODE	Definition
BD	Blank Spike Duplicate
BS	Blank Spike
CB	Calibration Blank
CV	Continuing Calibration Verification
EB	Equipment Blank
FD	Field Duplicate
IA	Interference Check Sample-A
IB	Interference Check Sample-AB
LB	Laboratory Blank
N	Normal
TB	Trip Blank

Review Questions

Method: A2320B (Alkalinity by Titrimetric Method)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: E353.2 (Nitrogen, Nitrate-Nitrite (Colorimetric Automated, Cadmium Reduction))				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?			•	Not applicable to this method.
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: RSK175 (Dissolved Gas Analysis in Water Samples Using a GC Headspace Equilibrium Technique)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Were the required minimum levels of calibration standards used in the initial calibration?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Were surrogate recoveries within project acceptance limits?			•	Not applicable to this method.
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were DoD QSM corrective actions followed if deviations were noted?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW6010C (Trace Metals by Inductively Coupled Plasma/Atomic Emission Spectrometry)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?	•			
Were target analytes reported in the field blank(s) less than MDL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?		•		MS/MSD %R lower than %R limits but no results were qualified due to sample result >4x spike.
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW6020A (Trace Metals by Inductively Coupled Plasma/Mass Spectrometry)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?	•			
Were target analytes reported in the field blank(s) less than MDL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?			•	Not applicable to this method.
Was a MS/MSD pair prepared with each batch?	•			
Were MS/MSD recoveries within project acceptance limits?	•			
Was the MS/MSD RPD within project acceptance limits?	•			
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW8260D (Volatile Organic Compounds by GC/MS)

Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?		•		Results qualified UJ due to CCV %D lower than %D limits.
Were the required minimum levels of calibration standards used in the initial calibration?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?		•		Results qualified UJ due to ICV %D lower than %D limits.
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Were surrogate recoveries within project acceptance limits?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?		•		Analytes detected in the method blank but no results were qualified.
Were field blanks (EBs or FBs) submitted with these samples?	•			
Were target analytes reported in the field blank(s) less than MDL?		•		Results qualified U at the LOQ due to analyte detect in the equipment blank.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?		•		LCS/LCSD %R greater than %R limits but no results were qualified.
Was the LCS/LCSD RPD within project acceptance limits?		•		LCS/LCSD RPD greater than RPD limits but no results were qualified.
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?		•		Several results qualified J(detects) or UJ(non-detects) due to field duplicate RPD greater than RPD limits.
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were DoD QSM corrective actions followed if deviations were noted?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW9034 (Titrimetric Procedure for Acid-Soluble and Acid-Insoluble Sulfides)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW9056A (Anion Chromatography)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Review Questions

Method: SW9060A (Total Organic Carbon)				
Review Questions	Yes	No	NA	Comment
Did Chain-of-Custody information agree with laboratory report and EDD for requested field samples and tests?	•			
Were samples preserved properly and received in good condition?	•			
Were holding times met?	•			
Were all requested target analytes reported?	•			
Was the Calibration within acceptance criteria?	•			
Was either analysis of an ICV performed after each ICAL or a second source standard prior to sample analysis?	•			
Were all reported analytes for the ICV within the required criteria?	•			
Were ICB/CCBs run at the required frequency?	•			
Were target analytes in the ICBs/CCBs non-detect?	•			
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than MDL?	•			
Were field blanks (EBs or FBs) submitted with these samples?			•	Not applicable to this method.
Were target analytes reported in the field blank(s) less than MDL?			•	Not applicable to this method.
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	Not applicable to this method.
Were MS/MSD recoveries within project acceptance limits?			•	Not applicable to this method.
Was the MS/MSD RPD within project acceptance limits?			•	Not applicable to this method.
If a field duplicate was analyzed, were the RPDs within QAPP acceptance limits?	•			
Were QAPP specified laboratory LOQs/RLs achieved?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were any data recommended for rejection (exclusion) in the data validation process?		•		Data acceptable as reported and qualified.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-04-04X	SW6010C (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Iron (FLDFLT)	78000	75000	100.00	3.92	30	OK	3000	NA
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Manganese (FLDFLT)	9000	8600	10.00	4.55	30	OK	400	NA

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-04-04X	SW6020A (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Arsenic (FLDFLT)	520	500	5.00	3.92	30	OK	20.0	NA

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-04-04X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,1,1,2-Tetrachloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,1,1-Trichloroethane	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,1,2,2-Tetrachloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,1,2-Trichloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,1-Dichloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,1-Dichloroethene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,1-Dichloropropene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,2,3-Trichlorobenzene	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,2,3-Trichloropropane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,2,4-Trichlorobenzene	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,2,4-Trimethylbenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,2-Dibromo-3-chloropropane	ND	ND	10.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,2-Dibromoethane (EDB)	ND	ND	2.00	NA	30	NA	0.00	OK

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Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-04-04X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,2-Dichlorobenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,2-Dichloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,2-Dichloroethene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,2-Dichloropropane	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,3,5-Trimethylbenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,3-Dichlorobenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,3-Dichloropropane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	1,4-Dichlorobenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	2,2-Dichloropropane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	2-Butanone (MEK)	ND	ND	25.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	2-Chlorotoluene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	2-Hexanone	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	4-Chlorotoluene	ND	ND	2.00	NA	30	NA	0.00	OK

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Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-04-04X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	4-Methyl-2-pentanone (MIBK)	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Acetone	ND	ND	25.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Benzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Bromobenzene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Bromochloromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Bromodichloromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Bromoform	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Bromomethane	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Carbon disulfide	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Carbon Tetrachloride	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Chlorobenzene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Chloroethane	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Chloroform	ND	ND	2.00	NA	30	NA	0.00	OK

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Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-04-04X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Chloromethane	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	cis-1,2-Dichloroethene	0.260	ND	2.00	NA	30	NA	0.260	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	cis-1,3-Dichloropropene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Cumene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Dibromochloromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Dibromomethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Dichlorodifluoromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Ethylbenzene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Hexachlorobutadiene	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	m,p-Xylene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Methyl tert-butyl ether (MTBE)	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Methylene chloride	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Naphthalene	ND	ND	10.00	NA	30	NA	0.00	OK

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Field Duplicates By SDG
Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-04-04X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	n-Butylbenzene	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	n-Propylbenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	o-Xylene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	p-Cymene (p-Isopropyltoluene)	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	sec-Butylbenzene	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Styrene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	tert-Butylbenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Tetrachloroethene (PCE)	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Toluene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	trans-1,2-Dichloroethene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	trans-1,3-Dichloropropene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Trichloroethene (TCE)	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Trichlorofluoromethane	ND	ND	2.00	NA	30	NA	0.00	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

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Field Duplicates By SDG
Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-04-04X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Vinyl acetate	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Vinyl chloride	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-04-04X-FAL24 AOC50-DUP01-FAL24	680-258802-7 680-258802-1	Xylenes, Total	ND	ND	2.00	NA	30	NA	0.00	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

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Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-13-02X	A2320B (mg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Alkalinity, Total (as CaCO3)	91.0	89.0	5.50	2.22	30	OK	2.00	NA

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-13-02X	E353.2 (mg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-13-02X-FAL24	680-258802-9	Nitrate-Nitrite (as N)	ND	ND	0.10	NA	30	NA	0.00	OK
AOC50-DUP03-FAL24	680-258802-2									

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-13-02X	RSK175 (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Ethane	0.750	0.640	1.10	15.8	30	NA	0.110	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Ethene	1.60	1.40	1.00	13.3	30	NA	0.200	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Methane	2200	2000	1.20	9.52	30	OK	200	NA

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-13-02X	SW6010C (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Iron (FLDFLT)	2800	2800	100.00	0.00	30	OK	0.00	NA
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Manganese (FLDFLT)	15000	14000	10.00	6.90	30	OK	1000	NA

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-13-02X	SW6020A (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Arsenic (FLDFLT)	20.0	19.0	5.00	5.13	30	NA	1.00	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-13-02X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,1,1,2-Tetrachloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,1,1-Trichloroethane	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,1,2,2-Tetrachloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,1,2-Trichloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,1-Dichloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,1-Dichloroethene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,1-Dichloropropene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,2,3-Trichlorobenzene	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,2,3-Trichloropropane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,2,4-Trichlorobenzene	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,2,4-Trimethylbenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,2-Dibromo-3-chloropropane	ND	ND	10.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,2-Dibromoethane (EDB)	ND	ND	2.00	NA	30	NA	0.00	OK

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Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-13-02X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,2-Dichlorobenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,2-Dichloroethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,2-Dichloroethene	0.520	2.90	2.00	139	30	NA	2.38	Out
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,2-Dichloropropane	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,3,5-Trimethylbenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,3-Dichlorobenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,3-Dichloropropane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	1,4-Dichlorobenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	2,2-Dichloropropane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	2-Butanone (MEK)	ND	ND	25.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	2-Chlorotoluene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	2-Hexanone	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	4-Chlorotoluene	ND	ND	2.00	NA	30	NA	0.00	OK

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Field Duplicates By SDG
Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location **Analysis**
G6M-13-02X SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	4-Methyl-2-pentanone (MIBK)	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Acetone	ND	ND	25.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Benzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Bromobenzene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Bromochloromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Bromodichloromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Bromoform	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Bromomethane	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Carbon disulfide	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Carbon Tetrachloride	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Chlorobenzene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Chloroethane	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Chloroform	ND	ND	2.00	NA	30	NA	0.00	OK

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Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-13-02X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Chloromethane	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	cis-1,2-Dichloroethene	ND	2.90	2.00	NA	30	NA	2.90	Out
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	cis-1,3-Dichloropropene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Cumene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Dibromochloromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Dibromomethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Dichlorodifluoromethane	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Ethylbenzene	ND	ND	1.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Hexachlorobutadiene	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	m,p-Xylene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Methyl tert-butyl ether (MTBE)	ND	ND	5.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Methylene chloride	ND	ND	20.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Naphthalene	ND	ND	10.00	NA	30	NA	0.00	OK

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Field Duplicates By SDG
Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location G6M-13-02X
Analysis SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	n-Butylbenzene	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	n-Propylbenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	o-Xylene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	p-Cymene (p-Isopropyltoluene)	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	sec-Butylbenzene	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Styrene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	tert-Butylbenzene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Tetrachloroethene (PCE)	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Toluene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	trans-1,2-Dichloroethene	0.520	ND	2.00	NA	30	NA	0.520	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	trans-1,3-Dichloropropene	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Trichloroethene (TCE)	0.990	1.10	1.00	10.5	30	NA	0.110	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Trichlorofluoromethane	ND	ND	2.00	NA	30	NA	0.00	OK

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RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

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Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-13-02X	SW8260D (µg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Vinyl acetate	ND	ND	2.50	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Vinyl chloride	ND	ND	2.00	NA	30	NA	0.00	OK
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Xylenes, Total	ND	ND	2.00	NA	30	NA	0.00	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

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Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-13-02X	SW9034 (mg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-13-02X-FAL24	680-258802-9	Sulfide	ND	ND	2.50	NA	30	NA	0.00	OK
AOC50-DUP03-FAL24	680-258802-2									

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-13-02X	SW9056A (mg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-13-02X-FAL24	680-258802-9	Sulfate	6.80	6.60	1.50	2.99	30	NA	0.200	OK
AOC50-DUP03-FAL24	680-258802-2									

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Field Duplicates By SDG

Former Fort Devens, Long Term Monitoring (4953)
Seres-Arcadis JV, Long Term Monitoring, AOC 50, Fall 2024 (11065)
Field Duplicates for SDG: 680-258802-1

5XRL: This rule will qualify the data based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and

Location	Analysis
G6M-13-02X	SW9060A (mg/L)

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	Primary Sample RL	RPD	RPD Criteria	RPD Check	Absolute Difference	RL Check
G6M-13-02X-FAL24 AOC50-DUP03-FAL24	680-258802-9 680-258802-2	Total Organic Carbon	3.90	3.60	1.00	8.00	30	NA	0.300	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference (populated regardless of whether results are detects or nondetects, per flagging setup)

RL Check determines if the field duplicate is outside QC limits based on the RPD between the results if the result (both original sample and duplicate value) is greater than 5x the LOQ. If the result (original sample or duplicate value) is less than or equal to 5x the LOQ, a control limit of the LOQ would typically be used. Additionally, a less restrictive criteria can be used such as 2x the LOQ or another integer value. Liquid and solid can have different values.

Appendix D

Historical Groundwater Analytical Results

Appendix D
Historical Groundwater Analytical Results
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 1	G6M-02-08X	5/17/2002	1.0 U	250	2,300	2.0 U	35	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.0	-
Area 1	G6M-02-08X	1/31/2003	1.0 U	480	3,600	2.3	46	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.0	-
Area 1	G6M-02-08X	3/31/2005	50 U	250	1,300	50 U	38 J	50 U	5.0 U	0.3 J	300 J	770	0.049	0.79	1.2	1.1	62	6.2	15	2.0 U	7.08	0.563	24.6	9.10	9.6	-50.0
Area 1	G6M-02-08X	7/5/2005	12 U	1,800	1,000	12 U	130	12 U	33	110	110,000	29,000	0.16	0.22	3.0	0.05 U	350	3.7	450	8.3	4.23	1.616	4.72	1.66	15.0	19.1
Area 1	G6M-02-08X	9/27/2005	1.8	1,300	560	1.0 U	26	2.5	270	310 J	310,000 J	75 U	0.11	0.25	21	0.05 U	466	320 J	1,200	16	5.03	1.965	3.16	0.33	18.8	-68.6
Area 1	G6M-02-08X	12/16/2005	2.0 U	1,200	300	4.0 U	24	4.0 U	4.4	350 J	350,000 J	15 U	0.19	0.36	2.1	0.05 U	520	57	1,500	9.4	5.46	1.999	66.4	0.03	9.7	-31.4
Area 1	G6M-02-08X	3/21/2006	2.1	1,300	180	2.0 U	25	2.3	80	470	470,000	40,000	0.084	0.24	15	1.0 U	1,400	245	3,000	14	5.46	2.450	6.98	0.33	15.0	-62.5
Area 1	G6M-02-08X	6/21/2006	1.0 U	850	230	2.0 U	30	2.0 U	100	970	970,000	44,000	0.14	0.23	19	1.7	1,800	759	5,700	40	4.80	4.528	45.4	1.32	12.4	-25.2
Area 1	G6M-02-08X	9/20/2006	1.6	1,300	150	2.0 U	25	2.0 U	77	860	860,000	29,000	0.072	0.14	11	2.0 U	1,000	655	4,400	16	5.20	4.503	53.4	1.57	19.6	-14.4
Area 1	G6M-02-08X	12/11/2006	1.6	620	830	2.0 U	340	7.3	190	130	130,000	27,000	0.020 J	0.047	9,000	-	-	6.1	360	1.2	6.28	1.930	2.10	14.1	11.0	-260.0
Area 1	G6M-02-08X	3/28/2007	1.0 U	500	60	2.0 U	14	2.0 U	72	1,200	1,200,000	30,000 J	0.31	0.14	62	-	-	1,170	7,200	80	4.46	7.243	60.9	0.21	11.7	-144.5
Area 1	G6M-02-08X	6/13/2007	1.0 U	420	110	2.0 U	8.4	2.0 U	130	1,200	1,200,000	33,000	0.092	0.11	180	-	-	1,160	6,800	82	4.70	6.948	1,328	1.78	9.3	24.1
Area 1	G6M-02-08X	9/13/2007	1.0 U	1,400	140	2.0 U	74	2.0 U	410	1,100	1,100,000	37,000	0.22	0.17	120	0.2 U	3,000	890	4,400	200	5.34	6.823	28.2	2.68	11.5	-150.5
Area 1	G6M-02-08X	12/10/2007	2.0	1,100	250	2.0 U	66	3.3	360	1,200	1,200,000	42,000	0.14	0.23	240	-	-	414	7,700	120	5.17	7.569	10.8	0.15	11.1	-115.7
Area 1	G6M-02-08X	3/10/2008	1.0 U	170	32	2.0 U	5.5	2.0 U	570	970	970,000	20,000	0.36	0.15	280	-	-	770	11,000	16	4.28	7.828	13.8	0.50	15.4	-55.7
Area 1	G6M-02-08X	10/6/2008	5.0 U	81	49	5.0 U	4.5 J	5.0 U	103 J	598	598,000	7,630	6.3 U	7.9 U	3,000	0.13 U	1,800	610	4,190	0.75 U	4.52	4.495	65.0	0.00	12.3	-25.9
Area 1	G6M-02-08X	1/21/2009	14 U	39	29	11 U	18 U	11 U	76	474 J	474,000 J	6,650	1.2 U	1.5 U	3,400	0.13 U	3,000	710	2,900 J	0.39	4.76	3.739	46.4	0.15	13.1	39.2
Area 1	G6M-02-08X	5/7/2009	20 U	29	25	20 U	20 U	20 U	53	356	356,000	5,130	1.3 U	5.8	3,500	0.092 J	550 J	410	3,000	0.053	3.97	3.538	15.4	0.40	15.0	71.4
Area 1	G6M-02-08X	10/20/2009	0.5 U	0.31 J	0.5 U	0.5 U	0.5 U	0.5 U	71	486	486,000	6,840	1.3 U	1.6 U	2,300 J	1.3 U	40	440	2,300	0.3 U	4.61	3.973	20.1	1.88	12.5	79.4
Area 1	G6M-02-08X	4/21/2010	2.0 U	75 J	11 J	2.0 U	2.0 U	2.0 U	99	447 J	447,000 J	8,720	1.3 U	1.6 U	4,400	1.3 U	40	130	3,400	0.28	4.49	3.353	22.3	0.10	11.1	28.2
Area 1	G6M-02-08X	10/7/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	73	381	381,000	8,080	1.3 U	1.6 U	27,000	2.6 U	860	100	2,400	0.095	4.47	3.209	4.33	0.33	12.7	58.0
Area 1	G6M-02-08X	6/9/2011	0.5 U	140	13	0.5 U	0.5 U	1.6	155	473	473,000	14,000	1.2 U	1.5 U	83,000	6.5 U	1,100	99 J	2,800	0.38	4.64	2.968	11.0	0.11	11.1	18.9
Area 1	G6M-02-08X	10/4/2011	8.0 U	210	8.0 U	8.0U	8.0 U	8.0 U	194	491	491,000	15,900	1.2 U	1.5 U	28,000	0.13 U	230	86	2,400	0.091	4.81	2.376	4.99	0.02	13.7	18.1
Area 1	G6M-02-08X	5/10/2012	8.0 U	270	9.8	8.0U	8.0 U	8.0 U	184	581	581,000	19,000	1.2 U	1.5 U	14,000	0.13 U	730	64	1,900	1.8	5.16	3.338	3.29	0.21	11.5	-9.9
Area 1	G6M-02-08X	10/15/2012	4.0 U	270	12	4.0 U	4.0 U	6.2	121	523	523,000	20,300	1.2 U	1.5 U	3,600	0.08 J	900	37	1,800	0.096	4.85	2.915	3.76	0.32	10.4	-1.0
Area 1	G6M-02-08X	5/23/2013	8.0 U	510	20	8.0U	8.0 U	24	160	460	460,000	18,200	1.2 U	1.5 U	11,000	0.041 J	610	5.3	1,600	3.5 j	4.88	2.618	4.01	0.10	-	9.4
Area 1	G6M-02-08X	10/22/2013	13 U	500	13 U	13 U	13 U	51	200	428	428,000	15,400	3.6	84	40,000	0.13 U	630	8.9	1,100	3.8	5.23	1.308	10.8	0.27	8.2	1.1
Area 1	G6M-02-08X	6/12/2014	0.70	400	12	0.5 U	1.5	140	241	420	420,000	10,100	1.3 U	1.6 U	9,400	0.13 U	700 J	1.0 J	670	0.03 U	5.23	2.023	6.68	0.21	16.6	11.2
Area 1	G6M-02-08X	11/3/2014	5.0 U	260	8.3	5.0 U	5.0 U	44	258	461	461,000	10,400	4.4	7.7	26,000	0.13 U	590	0.96 J	1,400	0.03 U	5.28	0.994	33.6	0.12	15.0	-33.6
Area 1	G6M-02-08X	6/16/2015	10 U	99	10 U	10 U	10 U	10 U	318	455	455,000	10,200	10 U	10 U	1,410	0.15	582	8.6 J	1,020	1.0 U	5.43	1.476	110	2.94	13.6	43.0
Area 1	G6M-02-08X	9/9/2015	20 U	84	20 U	20 U	20 U	20 U	340	428	428,000	8,780	10 U	10 U	10,600	0.078 J	-	16	976	4.8	5.59	1.337	12.0	0.07	13.7	-39.2
Area 1	G6M-02-08X	10/13/2015	21 U	84	20 U	21 U	21 U	21 U	320	483	483,000	9,410	10 U	10 U	18,400	0.11 U	526	7.1 J	1,280	2.0 U	5.02	1.689	47.8	0.33	9.8	0.4
Area 1	G6M-02-08X	2/10/2016	2.0 U	49	2.9	2.0 U	2.0 U	4.7	272	1,150	1,150,000	12,100	10 U	10 U	14,500	0.10 J	879	5.3 J	3,110	2.0 U	4.89	2.906	17.2	0.47	10.4	52.6
Area 1	G6M-02-08X	6/14/2016	10 U	35	10 U	10 U	10 U	10 U	220	1,200	1,200,000	8,000	2.8	1.0 U	19,000	0.05 U	1,200	1.3	2,600	1.0 U	5.21	3.370	10.7	0.33	16.4	29.1
Area 1	G6M-02-08X	11/10/2016	1.0 U	27	4.3	1.0 U	1.0 U	2.1	230	880	880,000	8,600	1.1 U	1.0 U	11,000	0.053 J	1,000	0.58 J	2,100	7.0	5.27	1.370	9.44	0.77	8.3	-0.9
Area 1	G6M-02-08X	5/18/2017	20 U	51	20 U	20 U	20 U	20 U	410	770	770,000	4,300	1.1 U	1.0 U	15,000	0.10 U	930	1.0 U	740	1.0 U	12.31	2.650	30.4	0.01	13.0	-111.3
Area 1	G6M-02-08X	10/18/2017	20 U	20 U	20 U	20 U	20 U	20 U	370	640	640,000	3,300	1.1 U	1.0 U	16,000	0.26	680	2.0 U	250	1.6	6.66	1.970	38.1	0.44	12.2	-144.8
Area 1	G6M-02-08X	10/19/2018	10 U	8.0 J	10 U	10 U	10 U	10 U	300	240	240,000	1,400	1.1 U	1.0 U	38,000	0.23	190	2.0 U	110	1.0 U	6.37	1.439	41.6	0.35	11.2	111.3
Area 1	G6M-02-08X	10/16/2019	5.0 U	5.9 J	5.0 U	5.0 U	5.0 U	5.0 U	370	180	180,000	1,100	1.1 U	4.3	31,000	0.054 J	120	1.0 U	89	1.8	6.43	1.400	44.0	1.82	12.0	-115.0
Area 1	G6M-02-08X	10/13/2020	1.0 U	3.5	1.0 U	1.0 U	1.0 U	1.0 U	390	78	78,000	420	1.1 U	0.76 J	12,000	0.12	95	5.0 U	37	0.81 U	6.61	0.522	8.12	0.51	11.6	-93.1
Area 1	G6M-02-08X	10/14/2021	1.0 U	3.3	2.0 U	1.0 U	1.0 U	1.6	260	22	22,000	110	2.5	6.7	25,000	0.047 J	87	2.0 U	25	0.81 U	6.95	0.597	28.90	0.63	13.4	-119.0
Area 1	G6M-02-08X	10/4/2022	1.0 U	0.91 J	1.0 U	1.0 U	0.5 U	1.0 U	210	19	19,000	240	3.4	0.71 U	28,000	0.025 U	52	1.1	15	1.7 U	6.88	0.109	7.61	1.01	12.4	-102.0
Area 1	G6M-02-08X	10/19/2023	1.0 U	0.60 J	1.0 U	1.0 U	0.5 U	1.0 U	150	23	23,000	540	9.5	2.8	29,000	0.025 U	41	1.0 U	8.7	1.7 U	6.65	0.190	3.76	0.27	13.9	-65.3
Area 1	G6M-02-08X	11/13/2024	1.0 U	0.84 J	1.0 U	1.0 U	0.5 U	1.0 U	170	19	19,000	510	6.7	0.71 U	28,000	0.042 J	37	1.0 U	10	1.8 J	6.62	0.1	4.12	1.31	8.2	-85.1
Area 1	G6M-03-01X	10/21/2009	25 U	670	380	25 U	65	25 U	-	-	-	-	-	-	-	-	-	-	-	-	6.52	0.559	7.25	0.88	12.0	-153.5
Area 1	G6M-03-01X	10/16/2012	10 U	200	200	10 U	60	550	-	-	-	-	-	-	-	-	-	-	-	-	6.51	1.776	2.28	0.95	20.2	-69.4
Area 1	G6M-03-01X	6/12/2014	0.51	19	0.29 J	0.59	37	68	-	-	-	-	-	-	-	-	-	-	-	-	6.52	0.812	13.1	1.95	16.7	11.7
Area 1	G6M-03-01X	10/31/2014	0.5 U	98	300	0.5 U	310	34	-	-	-	-	-	-	-	-	-	-	-	-	6.40	1.263	8.57	0.75	9.6	-106.6
Area 1	G6M-03-01X	6/18/2015	0.55 J	53	0.65 J	0.5 U	37	19	-	-	-	-	-	-	-	-	-	-	-	-	6.36	1.093	22.9	1.82	13.6	19.9
Area 1	G6M-03-01X	9/10/2015	1.4	65	103	2.4	67	63	46	42	41,800	7,080	10 U	69	8,640	0.076 J	-	10	5.3	2.0 U	6.00	1.881	4.38	0.61	12.6	-55.0
Area 1	G6M-03-01X	10/13/2015	1.5	141	126	5.2	190	58	-	-	-	-	-	-	-	-	-	-	-	-	6.27	2.096	3.61	0.28	13.3	-83.5
Area 1	G6M-03-01X	2/22/2016	1.0 U	87	1.0 U	1.9	81	51	24	20	20,000	6,330	10 U	96	16,300	0.11 U	144	3.4 J	6.4	2.0 U	6.62	1.162	4.98	2.11	8.5	33.6
Area 1	G6M-03-01X	6/15/2016	1.4	180	9.6	8.8	180	99	-	-	-	-	-	-	-	-	-	-	-	-	5.84	1.726	5.61	2.81	12.9	-48.3
Area 1	G6M-03-01X	11/10/2016	1.4	180	1.0 U	4.0	130	140	-	-	-	-	-	-	-	-	-	-	-	-	6.25	1.097	2.40	0.47	8.2	-84.7
Area 1	G6M-03-01X	5/18/2017	0.70 J	210	61	2.3	77	73	75	120	120,000	70,000	1.1 U	120	7,900	0.08 J	310	8.6	26	1.0 U	12.52	2.275	8.51	0.12	13.6	-93.1
Area 1	G6M-03-01X	10/12/2017	2.0 U	240 J	2.0 U	2.0 U	9.7 J	160 J	130	210	210,000	65,000	1.1 U	1.0 U	8,000	0.12	390	0.50 J	72	1.0 U	6.42	2.020	7.96	2.23	12.5	-69.7
Area 1	G6M-03-02X	5/12/2003	1.0 U	4.4	1,300	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.9	-
Area 1	G6M-03-02X	10/11/2004	1.0 U	5.6	690	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	17	0.051	0.030	2.6	3.7	12	20	1.0 U	1.7 J	6.29	0.321	12.1	8.25	8.8	97.4
Area 1	G6M-03-02X	12/15/2004	1.0 U	5.0	200	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	610	0.056	0.063	3.4	2.4	29	30	390	2.0 U	5.86	0.382	1.93	1.75	12.8	-132.9
Area 1	G6M-03-02X	3/29/2005	10 U	14 J	340	20 U	20 U	20 U	640	140	140,000	49,000	0.15	0.34	5.1	0.2 U	366	230	1,300	6.7 J	5.23	1.654	28.7	0.65	15.5	-20.1
Area 1	G6M-03-02X	6/29/2005	2.5 U	91	190	2.5 U	11	2.5 U	130	220 J	220,000 J	35,000 J	0.29	0.65	43	0.05 U	431	74	1,200	11	4.62	1.723	29.1	1.13	15.6	2.9
Area 1	G6M-03-02X	9/29/2005	2.5 U	190	57	2.5 U	7.8	2.5 U	150	260 J	260,000 J	37,000	0.20	0.29	560	0.05 U	345	62	850	16	4.94	1.752	23.8	0.53	11.3	-73.7
Area 1	G6M-03-02X	12/15/2005	4.0 U	190	39	8.0U	8.0 U	8.0 U	146	290 J	290,000 J	38,000	0.17	0.26	4,300	0.05 U	550	66	1,100	16	5.42	1.650	19.7	4.55	12.1	13.9
Area 1	G6M-03-02X	3/21/2006	1.0 U	140	17	2.0 U	2.0 U	2.0 U	140	320	320,000	37,000	0.016 J	0.14	6,700	2.0 U	1,200	88	1,400	8.8	5.56	1.731	17.3	0.16	13.4	-47.7
Area 1	G6M-03-02X	6/21/2006	1.0 U	160	8.2	2.0 U	2.0 U	2.0 U	240	410	410,000	23,000	0.044	0.12	10,000	1.0 U	1,000	120	1,300	9.6	3.21	2.428	11.6	0.89	10.1	140.1
Area 1	G6M-03-02X	9/20/2006	1.0 U	230	9.7	2.0 U	2.3	2.0 U	200	440	440,000	21,000	0.050	0.20	8,700	1.0 U	570	115	1,300	8.4	5.55	2.029	13.7	0.71	11.5	-27.8
Area 1	G6M-03-02X	12/11/2006	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.008 J	0.038	11	-	-	6.6	5.0 U	1.0 U	6.38	0.076	2.23	10.7	12.1	91.3
Area 1	G6M-03-02X	12/12/2006	1.1	910	140	2.0 U	28	2.0 U	73	1,000	1,000,000	32,000	0.18	0.17	30	-	-	14	6,400	110	4.93	6.436	109	0.67	7.4	-38.3
Area 1	G6M-03-02X	3/28/2007	1.0 U	320	13	2.0 U	2.2	2.0 U	230	470	470,000	14,000 J	0.033	0.11	9,800	-	-	75	920	9.2	5.38	2.523	14.9	0.17	12.8	-62.3
Area 1	G6M-03-02X	6/12/2007	1.4	650	11	2.0 U	2.0 U	17	200	360	360,000	10,000	0.025 U	0.14	21,000	-	-	39	840	8.4	5.77	2.268	39.5	0.38	12.0	-59.3
Area 1	G6M-03-02X	9/12/2007	1.0 U	800	12	2.0 U	2.1	81	230	350	350,000	12,000	0.006 J	0.60	17,000	0.2 U	790	580	740	20	5.44	2.156	18.1	10.3	12.3	-122.8

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 1	G6M-03-02X	12/10/2007	1.8	**720**	3.8	2.0 U	2.0 U	**94**	**290**	**390**	**390,000**	**29,000**	0.005 J	1.4	14,000	-	-	25	1,000	7.0	5.67	2.802	5.30	6.03	12.3	-80.2
Area 1	G6M-03-02X	3/10/2008	1.8	**590**	2.0 U	2.0 U	2.0 U	**50**	**320**	**410**	**410,000**	**100,000**	0.098	3.4	11,000	-	-	50 U	2,000	4.8	5.47	3.113	24.5	0.51	11.7	-55.9
Area 1	G6M-03-02X	10/15/2008	5.0 U	**260**	5.0 U	5.0 U	5.0 U	**27**	**193**	**366**	**366,000**	**108,000**	1.2 U	10	12,000	0.13 U	860	59	454	0.03 U	5.60	2.376	15.0	0.75	11.0	-28.1
Area 1	G6M-03-02X	5/7/2009	4.0 U	**220**	4.0 U	4.0 U	4.0 U	**12**	**188**	**396**	**396,000**	**56,700**	1.2 U	18	23,000	0.13 U	1,100 J	44	900	0.03 U	5.45	1.962	4.81	0.32	11.3	-46.7
Area 1	G6M-03-02X	10/19/2009	10 U	**290**	10 U	10 U	20 U	**9.5 J**	**205**	**423**	**423,000**	**43,400**	1.3 U	14	18,000	0.13 U	920	300	290	0.03 U	5.99	1.832	11.9	2.56	-	-44.2
Area 1	G6M-03-02X	4/21/2010	2.0 U	**120 J**	2.0 U	2.0 U	2.0 U	**9.3 J**	**189**	**566 J**	**566,000 J**	**39,600**	1.3 U	16	16,000	0.13 U	1,000	0.28 J	1,200	0.03 U	5.85	1.902	7.28	0.29	18.1	18.9
Area 1	G6M-03-02X	10/6/2010	0.5 U	3.2	0.5 U	0.5 U	0.5 U	0.42 J	**118**	**580**	**580,000**	**36,100**	1.2 U	20	35,000	0.29	1,100	0.40 J	810	0.03 U	5.65	2.137	5.47	0.57	13.0	-21.1
Area 1	G6M-03-02X	10/4/2011	13 U	**410**	13 U	13 U	13 U	**30**	**379**	**352**	**352,000**	**12,400**	1.2 U	63	47,000	0.13 U	3,300	0.51 J	190	0.035	6.32	1.140	13.0	0.09	16.7	-86.1
Area 1	G6M-03-02X	10/11/2012	2.0 U	59	2.0 U	2.0 U	2.0 U	**34**	**270**	**295**	**295,000**	**10,200**	1.2 U	540	39,000	0.051 J	500	5.0 U	140	0.49	6.13	1.310	9.50	0.46	24.0	-68.9
Area 1	G6M-03-02X	10/22/2013	1.3 U	44	1.3 U	1.3 U	1.3 J	**36**	**296**	**212**	**212,000**	**6,750**	1.2 U	200	44,000	0.13 U	300	5.0 U	57	0.19	6.24	0.609	9.19	0.41	18.0	-68.8
Area 1	G6M-03-02X	10/30/2014	0.5 U	6.6	0.5 U	0.5 U	0.27 J	**6.3**	**254**	**251**	**251,000**	**6,090**	1.2 U	12	38,000	0.13 U	450	0.23 J	340	0.03 U	6.45	0.820	13.6	0.33	10.2	-61.7
Area 1	G6M-03-02X	10/13/2015	1.0 U	6.0	1.0 U	1.0 U	1.0 U	**5.3**	**168**	**116**	**116,000**	**3,540**	10 U	10 U	17,600	0.062 J	156	10	33	2.0 U	5.85	0.679	23.1	0.39	13.1	-86.6
Area 1	G6M-03-02X	11/10/2016	1.0 U	18	1.0 U	1.0 U	0.54 J	**6.4**	**180**	**260**	**260,000**	**3,900**	1.1 U	1.0 U	17,000	0.05 U	300	0.44 J	120	1.9	6.21	0.730	8.87	0.25	9.2	-57.0
Area 1	G6M-03-02X	10/12/2017	1.0 U	3.5	1.0 U	1.0 U	1.0 U	**4.0**	**250**	**150**	**150,000**	**2,000**	1.1 U	13	16,000	0.15	140	1.0 U	21	1.0 U	6.29	1.130	13.9	1.29	11.2	-44.1
Area 1	G6M-04-09X	9/24/2004	1.0 U	9.0	**7,400**	2.0 U	4.2	2.0 U	5.0 U	1.0 U	1,000 U	160	-	-	-	-	-	-	-	-	5.15	0.495	0.82	3.84	9.5	637.6
Area 1	G6M-04-09X	9/28/2005	5.0 U	5.0 U	**3,200**	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1,000 U	37	-	-	-	-	-	-	-	-	5.92	0.169	2.07	3.41	10.2	678.4
Area 1	G6M-04-09X	9/21/2006	1.0 U	2.0 U	**190**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	50	-	-	-	-	-	-	-	-	5.83	0.102	5.51	8.18	15.4	215.6
Area 1	G6M-04-09X	9/12/2007	1.0 U	31	**440**	2.0 U	**22**	2.0 U	5.0 U	0.83	830	390	-	-	-	-	-	-	-	-	6.22	0.179	4.30	2.18	14.0	49.7
Area 1	G6M-04-09X	10/17/2008	50 U	**410**	**4,000**	50 U	**330**	**44**	**63**	**13**	**13,300**	**5,700**	-	-	-	-	-	-	-	-	6.23	0.497	9.20	0.66	10.5	-36.2
Area 1	G6M-04-09X	10/21/2009	50 U	**210**	**1,600**	50 U	**210**	**51**	**71**	**13**	**13,400**	**3,960**	-	-	-	-	-	-	-	-	5.80	0.376	4.53	0.58	12.4	33.3
Area 1	G6M-04-09X	10/8/2010	0.89	**990**	**1,000**	0.79	**420**	**7.8**	**70**	**14**	**14,300**	**15,300**	-	-	-	-	-	-	-	-	6.17	0.388	1.58	0.99	11.9	-20.8
Area 1	G6M-04-09X	6/9/2011	1.7	**950**	**260**	0.56	**140**	**200**	**203**	**43**	**43,300**	**9,820**	-	-	-	-	-	-	-	-	6.14	0.562	0.03	0.35	11.3	-49.3
Area 1	G6M-04-09X	10/7/2011	20 U	**910**	20 U	20 U	**23**	**240**	**291**	**107**	**107,000**	**50,900**	-	-	-	-	-	-	45	-	6.45	0.626	2.00	0.14	10.1	-105.8
Area 1	G6M-04-09X	5/9/2012	40 U	**510**	**970**	40 U	**250**	**340**	**344**	**77**	**76,700**	**17,800**	-	-	-	-	-	-	9.1 J	-	6.66	0.495	12.5	0.08	10.1	-85.2
Area 1	G6M-04-09X	10/16/2012	20 U	**100**	**260**	20 U	**70**	**350**	**225**	**42**	**41,700**	**13,800**	-	-	-	-	-	-	3.0 J	-	6.24	0.289	10.3	0.31	10.8	-79.9
Area 1	G6M-04-09X	5/22/2013	0.5 U	5.9	**5.9**	0.81	3.6	**9.9**	**321**	**135**	**135,000**	**30,800**	-	-	-	-	-	-	11	-	6.29	0.812	4.21	0.15	8.7	-84.7
Area 1	G6M-04-09X	10/22/2013	0.5 U	52	0.5 U	0.53	0.5 U	**38**	**551**	**303**	**303,000**	**27,100**	-	-	-	-	-	-	34	-	6.64	0.917	18.5	3.30	10.0	-130.9
Area 1	G6M-04-09X	6/12/2014	0.5 U	12	1.4	0.60	0.75	**26**	**607**	**315**	**315,000**	**19,200**	-	-	-	-	-	-	29	-	6.37	1.392	3.64	0.26	10.4	-82.0
Area 1	G6M-04-09X	11/3/2014	0.5 U	0.43 J	0.21 J	0.21 J	0.5 U	0.83	**600**	**339**	**339,000**	**16,500**	-	-	-	-	-	-	31	-	6.59	1.030	21.8	0.05	10.5	-129.2
Area 1	G6M-04-09X	6/17/2015	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**351**	**159**	**159,000**	**3,560**	-	-	-	-	-	-	14	-	6.33	1.384	96.0	0.64	14.0	-65.0
Area 1	G6M-04-09X	10/14/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**577**	**241**	**241,000**	**5,600**	-	-	-	-	-	-	16	-	6.61	1.604	15.3	0.13	10.8	134.9
Area 1	G6M-04-09X	2/19/2016	1.0 U	0.55 J	1.0 U	1.0 U	1.0 U	1.0 U	**514**	**202**	**202,000**	**3,600**	10 U	10 U	16,700	0.37	439	4.5 J	13	2.0 U	6.74	1.280	12.4	1.09	9.9	-95.7
Area 1	G6M-04-09X	6/15/2016	1.0 U	1.0	1.0 U	1.0 U	0.85 J	0.61 J	**550**	**200**	**200,000**	**3,100**	-	-	-	-	-	-	14	-	6.38	2.118	11.5	2.56	11.2	-87.6
Area 1	G6M-04-09X	11/9/2016	1.0 U	0.67 J	1.0 U	1.0 U	1.0 U	0.56 J	**430**	**160**	**160,000**	**2,600**	-	-	-	-	-	-	-	-	7.32	1.277	21.7	0.52	8.5	-139.7
Area 1	G6M-04-09X	5/18/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**430**	**180**	**180,000**	**3,200**	1.1 U	1.0 U	14,000	0.15	190	5.4	11	1.0 U	6.58	1.813	17.0	0.45	10.4	-116.7
Area 1	G6M-04-09X	10/23/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.74 J	**370**	**110**	**110,000**	**2,400**	-	-	-	-	-	-	7.8	-	6.72	1.860	30.7	0.13	10.4	-106.4
Area 1	G6M-04-09X	10/19/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**330**	**140**	**140,000**	**2,600**	-	-	-	-	-	-	-	-	6.42	1.315	16.8	0.81	10.3	14.3
Area 1	G6M-04-09X	10/10/2019	1.0 U	23	2.8	1.4	**11**	**11**	**310**	**64**	**64,000**	**1,600**	-	-	-	-	-	-	-	-	6.48	0.443	43.6	0.28	10.0	-116.9
Area 1	G6M-04-09X	10/20/2020	0.94 J	68	**110**	2.3	**110**	**34**	**200**	**44**	**44,000**	**2,100**	-	-	-	-	-	-	-	-	6.62	0.298	20.3	0.54	11.6	-122.0
Area 1	G6M-04-09X	5/14/2021	1.0 U	3.2	2.0 U	2.2	2.5	**2.5**	**380**	**100**	**100,000**	**4,800**	5.8	52	38,000	0.071 J	140	3.7	9.5	0.81 U	6.48	0.936	426.7	1.12	10.5	-139.2
Area 1	G6M-04-09X	10/18/2021	1.0 U	12	2.0 U	1.1	3.2	1.7	**460**	**94**	**94,000**	**3,100**	-	-	-	-	-	-	-	-	6.57	0.515	22.3	0.74	10.3	-138.0
Area 1	G6M-04-09X	10/12/2022	1.0 U	0.94 J	1.0 U	0.98 J	0.5 U	1.0 U	**280**	**43**	**43,000**	**1,900**	3.3	3.0	15,000	0.029 J	98	5.0 U	7.1	1.9 U	6.79	0.329	35.1	0.48	16.0	-145.4
Area 1	G6M-04-09X	10/19/2023	1.0 U	0.54 J	1.0 U	1.0 U	0.29 J	0.77 J	**410**	**83**	**83,000**	**5,400**	4.8	3.7	26,000	0.025 U	150	1.0 U	8.3	1.7 U	6.47	0.550	15.2	0.85	13.6	-151.0
Area 1	G6M-04-09X	11/12/2024	1.0 U	0.46 J	1.0 U	1.0 U	0.5 U	1.0 U	**310**	**20**	**20,000**	1,100	6.3	0.71 U	30,000	0.028 J	60	1.0 U	4.3	1.7 U	6.68	0.15	42.1	0.15	10.1	-112
Area 1	G6M-04-11X	9/20/2004	1.0 U	2.0 U	**8.5**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.54	0.782	16.8	3.42	14.4	374.7
Area 1	G6M-04-11X	9/26/2005	1.0 U	2.0 U	**7.8**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.96	0.390	8.70	5.14	10.6	94.6
Area 1	G6M-04-11X	9/20/2006	1.0 U	2.0 U	4.0	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.24	0.380	5.99	6.00	14.4	129.0
Area 1	G6M-04-11X	9/11/2007	1.0 U	2.0 U	2.1	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.87	0.380	14.8	6.59	11.8	46.5
Area 1	G6M-04-11X	10/17/2008	0.5 U	0.5 U	1.4	0.5 U	0.5 U	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	6.53	0.302	3.50	5.62	9.5	98.1
Area 1	G6M-04-11X	10/16/2009	1.0 U	1.0 U	1.1	1.0 U	**53**	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.46	0.225	4.20	7.04	9.8	176.0
Area 1	G6M-04-11X	10/8/2010	0.5 U	0.5 U	0.41 J	0.5 U	0.5 U	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	6.71	0.247	3.15	6.95	9.6	152.6
Area 1	G6M-04-11X	10/6/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	6.77	0.219	4.00	2.50	10.6	87.7
Area 1	G6M-04-11X	10/16/2012	0.5 U	0.5 U	0.62	0.5 U	0.5 U	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	6.36	0.224	< 0.01	9.40	10.1	161.8
Area 1	G6M-04-11X	10/31/2014	0.5 U	0.5 U	0.54	0.5 U	0.5 U	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	6.88	0.163	0.91	7.12	10.4	167.7
Area 1	G6M-04-11X	11/10/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.65	0.167	1.18	6.67	10.3	25.6
Area 1	G6M-04-11X	10/22/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	3.0 U	-	-	-	-	-	-	-	-	6.23	0.254	2.65	6.24	10.4	206.0
Area 1	G6M-04-11X	10/16/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	1.6 J	-	-	-	-	-	-	-	-	6.62	0.144	1.57	7.29	16.6	135.0
Area 1	G6M-04-11X	10/5/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	3.0 U	0.05 U	50 U	5.0 U	-	-	-	-	-	-	-	-	6.31	0.168	1.36	7.75	13.4	577.8
Area 1	G6M-04-11X	11/14/2024	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	3.0 U	0.050 J	50 U	5.0 U	-	-	-	-	-	-	-	-	6.5	0.09	2.28	9.37	6.4	27.9
Area 1	G6M-04-12X	9/20/2004	1.0 U	56	**310**	2.0 U	**7.5**	2.0 U	5.0 U	1.0	1,000	44	-	-	-	-	-	-	-	-	11.03	2.003	5.22	0.86	9.6	102.6
Area 1	G6M-04-12X	9/26/2005	1.0 U	49	**250**	2.0 U	**6.8**	2.0 U	**15**	1.0 U	1,000 U	360	-	-	-	-	-	-	-	-	8.41	1.961	1.65	1.05	-	234.2
Area 1	G6M-04-12X	9/18/2006	1.0 U	60	**470**	2.0 U	**9.4**	2.0 U	6.5	0.1 U	100 U	550	-	-	-	-	-	-	-	-	7.21	1.764	7.11	3.22	12.7	253.5
Area 1	G6M-04-12X	9/10/2007	1.0 U	50	**350**	2.0 U	**11**	2.0 U	2.0 U	0.1 U	100 U	580	-	-	-	-	-	-	-	-	6.84	2.613	29.8	1.73	12.2	90.2
Area 1	G6M-04-12X	10/16/2008	10 U	35	**360**	10 U	**7.7 J**	10 U	3.1 J	0.2 U	200 U	360	-	-	-	-	-	-	-	-	7.23	2.623	2.00	1.45	12.4	91.2
Area 1	G6M-04-12X	10/19/2009	10 U	28	**170**	10 U	22 U	10 U	2.3 J	0.2 U	200 U	308	-	-	-	-	-	-	-	-	6.72	2.543	5.91	1.80	11.5	66.7
Area 1	G6M-04-12X	10/8/2010	0.5 U	22	**100**	0.5 U	4.4	0.5 U	5.0 U	0.1 U	100 U	336	-	-	-	-	-	-	-	-	6.57	3.632	2.35	1.75	10.6	208.0
Area 1	G6M-04-12X	6/9/2011	0.5 U	19	**180**	0.5 U	3.9	0.5 U	5.0 U	0.1 U	100 U	209	-	-	-	-	-	-	-	-	7.26	2.816	9.00	1.38	10.2	25.6
Area 1	G6M-04-12X	10/4/2011	4.0 U	27	**280**	4.0 U	4.6	4.0 U	5.0 U	0.1 U	100 U	200	-	-	-	-	-	-	-	-	6.62	2.332	2.44	1.06	13.4	63.8
Area 1	G6M-04-12X	5/9/2012	5.0 U	12	**160**	5.0 U	5.0 U	5.0 U	4.1 J	0.1 U	100 U	155	-	-	-	-	-	-	-	-	6.70	2.680	1.42	1.34	12.3	85.1
Area 1	G6M-04-12X	10/16/2012	5.0 U	14	**120**	5.0 U	5.0 U	5.0 U	5.0 U	0.1 U	100 U	156	-	-	-	-	-	-	-	-	6.60	3.799	2.03	2.11	13.0	62.5
Area 1	G6M-04-12X	5/22/2013	5.0 U	18	**220**	5.0 U	3.4 J	5.0 U	3.8 J	0.1 U	100 U	93	-	-	-	-	-	-	-	-	6.55	2.927	2.58	0.87	12.5	120.8

Appendix D
Historical Groundwater Analytical Results
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 1	G6M-04-12X	10/22/2013	4.0 U	23	**190**	4.0 U	3.7 J	4.0 U	5.0 U	0.1 U	100 U	106	-	-	-	-	-	-	-	-	6.58	2.231	4.88	1.60	12.3	133.7
Area 1	G6M-04-12X	6/10/2014	0.5 U	13	**130**	0.5 U	2.7	0.5 U	5.0 U	0.1 U	100 U	75	-	-	-	-	-	-	-	-	6.59	2.675	13.0	0.84	14.4	178.9
Area 1	G6M-04-15X	9/21/2004	1.0 U	5.3	**5.2**	2.0 U	2.0 U	2.0 U	5.0 U	**4.8**	**4,800**	**8,100**	-	-	-	-	-	-	-	-	5.26	2.640	0.23	0.82	11.3	410.0
Area 1	G6M-04-15X	9/28/2005	1.0 U	6.4	**9.1**	2.0 U	2.0 U	2.0 U	**33**	1.8	1,800	**4,400**	-	-	-	-	-	-	-	-	5.11	0.674	0.29	0.39	11.8	248.1
Area 1	G6M-04-15X	9/20/2006	1.0 U	5.2	3.5	2.0 U	2.0 U	2.0 U	**20**	2.0	2,000	**4,300**	-	-	-	-	-	-	-	-	4.60	1.555	0.95	1.07	11.1	-100.3
Area 1	G6M-04-15X	9/11/2007	1.0 U	2.0 U	2.7	2.0 U	2.0 U	2.0 U	**18**	0.75	750	**2,100**	-	-	-	-	-	-	-	-	6.21	1.353	3.50	3.21	11.3	85.1
Area 1	G6M-04-15X	10/17/2008	0.5 U	2.3	4.8	0.5 U	1.0	0.5 U	**36**	3.0	3,010	**3,010**	-	-	-	-	-	-	-	-	6.34	0.910	4.00	1.50	11.1	-8.1
Area 1	G6M-04-15X	10/19/2009	0.5 U	3.2	1.9	0.5 U	**14**	0.5 U	**49**	**4.8**	**4,840**	**3,130**	-	-	-	-	-	-	-	-	6.19	0.799	4.68	0.31	11.1	24.4
Area 1	G6M-04-15X	10/8/2010	0.5 U	3.2	0.65	0.5 U	0.34 J	0.5 U	**59**	**4.8**	**4,760**	**2,900**	-	-	-	-	-	-	-	-	6.14	0.704	1.34	0.30	10.9	3.2
Area 1	G6M-04-15X	10/6/2011	0.5 U	3.7	0.52	0.5 U	0.5 U	0.5 U	**56**	**3.8**	**3,750**	**3,470**	-	-	-	-	-	-	-	-	6.12	0.446	4.89	0.05	19.3	37.3
Area 1	G6M-04-15X	10/16/2012	0.5 U	3.9	1.0	0.5 U	0.5 U	0.5 U	**111**	**11**	**11,100**	**4,300**	-	-	-	-	-	-	-	-	6.15	0.760	1.08	0.49	14.3	-48.6
Area 1	G6M-04-15X	10/18/2013	0.5 U	2.2	0.97	0.5 U	0.27 J	0.5 U	**112**	**15**	**14,500**	**3,530**	-	-	-	-	-	-	-	-	5.68	0.838	1.33	0.24	18.8	14.1
Area 1	G6M-04-15X	11/4/2014	0.5 U	2.2	1.6	0.5 U	0.29 J	0.5 U	**135**	**33**	**33,400**	**14,000**	-	-	-	-	-	-	-	-	6.08	1.937	3.61	0.14	13.0	-16.0
Area 1	G6M-04-15X	10/14/2015	1.0 U	1.0 U	0.76 J	1.0 U	1.0 U	1.0 U	**103**	**45**	**45,000**	**21,200**	-	-	-	-	-	-	-	-	5.93	4.011	1.24	0.69	13.6	-38.2
Area 1	G6M-04-15X	11/10/2016	1.0 U	1.0 U	1.0 U	1.0 U	0.95 J	1.0 U	**55**	**16**	**16,000**	**14,000**	-	-	-	-	-	-	-	-	4.64	2.929	4.60	0.50	13.9	-21.4
Area 1	G6M-04-15X	10/9/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**70**	**15**	**15,000**	**19,000**	-	-	-	-	-	-	-	-	6.13	4.280	8.90	0.59	14.5	0.6
Area 1	G6M-04-15X	10/19/2018	1.0 U	1.0 U	1.5	1.0 U	0.60 J	1.0 U	**62**	**11**	**11,000**	**5,900**	-	-	-	-	-	-	-	-	6.21	3.171	7.49	0.12	12.0	116.0
Area 1	G6M-04-15X	10/9/2019	1.0 U	0.64 J	2.2	1.0 U	1.1	1.0 U	**71**	**8.9**	**8,900**	**2,500**	-	-	-	-	-	-	-	-	6.45	2.500	5.50	0.19	11.0	-10.0
Area 1	G6M-04-15X	10/20/2020	1.0 U	0.62 J	1.0 U	1.0 U	0.86 J	1.0 U	**75**	**5.2**	**5,200**	630	-	-	-	-	-	-	-	-	7.06	1.000	3.81	0.49	11.2	-121.0
Area 1	G6M-04-15X	10/18/2021	1.0 U	1.6	0.87 J	1.0 U	0.88 J	1.0 U	**94**	**4.3**	**4,300**	670	-	-	-	-	-	-	-	-	6.56	0.940	2.97	0.75	11.9	-53.4
Area 1	G6M-04-15X	10/12/2022	1.0 U	1.2 J	0.43 J	1.0 U	0.70 J	1.0 U	**95**	**7.2**	**7,200**	1,000	-	-	-	-	-	-	-	-	6.39	1.247	2.21	0.60	11.8	-50.7
Area 1	G6M-04-15X	10/19/2023	1.0 U	0.66 J	1.8 J	1.0 U	0.60 J	1.0 U	**55**	**7.2**	2,000	570	-	-	-	-	-	-	-	-	6.24	0.500	9.20	1.14	11.8	-27.1
Area 1	G6M-04-15X	11/7/2024	1.0 U	0.78 J	0.40 J	1.0 U	0.46 J	1.0 U	**150**	**9.1**	**9,100**	910	-	-	-	-	-	-	-	-	6.26	1.03	6.19	1.02	12.7	-26.2
Area 1	G6M-04-22X	9/21/2004	1.0 U	**110**	**900**	2.0 U	**24**	2.0 U	5.0 U	1.0 U	1,000 U	990	-	-	-	-	-	-	-	-	6.30	0.897	19.0	4.78	13.2	192.2
Area 1	G6M-04-22X	9/28/2005	1.0 U	45	**210**	2.5	**6.8**	2.0 U	5.0 U	1.0 U	1,000 U	120	-	-	-	-	-	-	-	-	5.52	0.757	21.0	6.13	14.1	391.3
Area 1	G6M-04-22X	9/20/2006	1.0 U	54	**200**	2.0 U	**8.7**	2.0 U	5.0 U	0.43	430	**4,500**	-	-	-	-	-	-	-	-	5.68	1.048	6.98	2.80	15.4	197.8
Area 1	G6M-04-22X	9/11/2007	1.0 U	**75**	**95**	2.0 U	**12**	**9.4**	**390**	**250**	**250,000**	**44,000**	-	-	-	-	-	-	-	-	6.92	2.250	20.7	0.28	13.4	-160.8
Area 1	G6M-04-22X	10/17/2008	1.0 U	53	**18**	0.44 J	3.7	**26**	**439**	**421**	**421,000**	**15,900**	-	-	-	-	-	-	-	-	6.34	2.104	18.0	0.28	12.9	-106.1
Area 1	G6M-04-22X	10/19/2009	0.5 U	16	**7.2**	0.5 U	**9.7**	**4.9**	**320**	**355**	**355,000**	**9,360**	-	-	-	-	-	-	-	-	6.26	2.181	290	1.27	14.3	-48.7
Area 1	G6M-04-22X	10/8/2010	0.5 U	7.1	0.39 J	0.23 J	2.2	**4.7**	**522**	**210**	**210,000**	**3,020**	-	-	-	-	-	-	-	-	6.32	1.691	22.2	2.51	14.8	-59.7
Area 1	G6M-04-22X	10/6/2011	0.5 U	13	0.5 U	0.5 U	0.5 U	**7.5**	**534**	**232**	**232,000**	**15,800**	-	-	-	-	-	-	-	-	6.25	0.016	6.47	0.39	12.2	-53.4
Area 1	G6M-04-22X	10/12/2012	0.5 U	5.7	0.5 U	0.5 U	0.5 U	**6.6**	**657**	**162**	**162,000**	**9,080**	-	-	-	-	-	-	-	-	6.41	1.701	8.66	0.60	12.4	-66.8
Area 1	G6M-04-22X	10/18/2013	-	-	-	-	-	-	**767**	-	-	-	-	-	-	-	-	-	-	-	6.12	1.113	14.3	0.29	12.8	-68.7
Area 1	G6M-04-22X	11/4/2014	0.5 U	2.0	0.5 U	0.72	0.5 U	**4.6**	**667**	**150**	**150,000**	**1,600**	-	-	-	-	-	-	-	-	6.39	0.951	42.9	0.20	13.3	-64.0
Area 1	G6M-04-22X	10/13/2015	-	-	-	-	-	-	**223**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Area 1	G6M-04-22X	11/9/2016	1.0 U	1.2	2.5	1.0 U	1.4	1.0 U	**650**	**150**	**150,000**	960	-	-	-	-	-	-	-	-	6.92	0.740	55.5	1.22	7.0	-73.1
Area 1	G6M-04-22X	10/18/2017	--	--	--	--	--	--	**970**	-	-	-	-	-	-	-	-	-	-	-	6.32	1.270	120	0.48	11.7	-66.9
Area 1	G6M-04-22X	10/22/2018	1.0 U	2.8 J	1.0 U	1.0 U	1.0 U	**3.4 J**	**820**	**140**	**140,000**	760	-	-	-	-	-	-	-	-	6.18	1.371	35.9	0.24	12.0	49.6
Area 1	G6M-04-22X	10/20/2020	1.0 U	2.0	1.0 U	1.0 U	1.0 U	1.8	**780**	**120**	**120,000**	890	-	-	-	-	-	-	-	-	6.25	0.717	< 0.01	0.49	11.0	-81.1
Area 1	G6M-04-22X	10/10/2022	1.0 U	1.4 J	1.0 U	1.0 U	0.5 U	1.0 U	**720**	**110**	**110,000**	920	-	-	-	-	-	-	-	-	6.15	0.947	11.9	0.64	11.4	-60.9
Area 1	G6M-04-22X	11/7/2024	1.0 U	0.90 J	1.0 U	1.0 U	0.5 U	1.0 U	**710**	**95**	**95,000**	1,000	-	-	-	-	-	-	-	-	6.2	0.56	21.3	0.84	12	-63
Area 1	G6M-04-31X	9/21/2004	1.0 U	4.2	**1,600**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	190	-	-	-	-	-	-	-	-	5.69	1.000	2.99	5.10	13.3	211.0
Area 1	G6M-04-31X	9/28/2005	5.0 U	5.2	**1,900**	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1,000 U	35	-	-	-	-	-	-	-	-	5.63	0.388	2.20	3.66	9.3	305.4
Area 1	G6M-04-31X	9/20/2006	1.0 U	2.5	**600**	2.0 U	**6.1**	2.0 U	5.0 U	0.1 U	100 U	15 U	-	-	-	-	-	-	-	-	6.52	0.729	3.56	0.28	9.2	-108.5
Area 1	G6M-04-31X	9/11/2007	1.3	**330**	**340**	2.8	**260**	2.0 U	5.0 U	0.10	100	890	-	-	-	-	-	-	-	-	6.38	0.217	6.90	5.61	10.9	101.6
Area 1	G6M-04-31X	10/17/2008	20 U	**340**	**110**	20 U	**72**	**730**	**103**	**68**	**68,400**	**9,710**	-	-	-	-	-	-	-	-	6.43	0.636	9.00	2.00	9.4	-72.7
Area 1	G6M-04-31X	10/21/2009	10 U	**270**	**86**	10 U	**11**	**560**	**311**	**181**	**181,000**	**16,900**	-	-	-	-	-	-	-	-	5.82	0.626	6.23	1.96	10.3	-102.0
Area 1	G6M-04-31X	10/8/2010	0.5 U	7.4	3.1	0.30 J	1.1	**31**	**428**	**127**	**127,000**	**9,620**	-	-	-	-	-	-	-	-	6.41	0.728	1.21	0.93	9.5	-107.6
Area 1	G6M-04-31X	10/6/2011	0.5 U	38	**18**	0.5 U	**5.3**	**37**	**635**	**223**	**223,000**	**15,800**	-	-	-	-	-	-	-	-	6.62	1.333	2.89	0.07	11.2	-112.4
Area 1	G6M-04-31X	10/12/2012	2.0 U	61	**25**	2.0 U	**31**	**72**	**556**	**181**	**181,000**	**8,940**	-	-	-	-	-	-	-	-	6.62	1.193	4.58	0.43	11.4	-104.6
Area 1	G6M-04-31X	10/18/2013	-	-	-	-	-	-	**498**	-	-	-	-	-	-	-	-	-	-	-	6.36	1.656	1.13	1.71	10.8	-87.6
Area 1	G6M-04-31X	11/4/2014	0.5 U	6.9	0.5 U	0.23 J	0.51	**3.4**	**468**	**121**	**121,000**	**9,690**	-	-	-	-	-	-	-	-	6.51	1.775	9.01	0.12	11.6	-95.5
Area 1	G6M-04-31X	10/13/2015	-	-	-	-	-	-	**420**	-	-	-	-	-	-	-	-	-	-	-	5.93	3.980	9.80	0.84	9.0	-144.3
Area 1	G6M-04-31X	11/10/2016	1.0 U	1.0 U	1.0 U	1.0 U	0.95 J	1.0 U	**430**	-	-	-	-	-	-	-	-	-	-	-	6.15	2.490	2.95	0.89	14.1	-95.8
Area 1	G6M-04-31X	10/9/2017	--	--	--	--	--	--	**410**	-	-	-	-	-	-	-	-	-	-	-	6.52	2.830	8.70	0.58	14.3	-83.5
Area 1	G6M-04-31X	10/22/2018	1.0 U	1.0 U	1.0 U	1.0 U	0.58 J	1.0 U	**370**	**60**	**60,000**	**6,800**	-	-	-	-	-	-	-	-	6.59	2.999	4.49	0.20	10.6	111.5
Area 1	G6M-04-31X	10/20/2020	1.0 U	1.0 U	1.5 U	1.0 U	1.0 U	0.98 J	**360 J**	**30**	**30,000**	**2,100**	-	-	-	-	-	-	-	-	6.71	1.580	0.93	0.51	13.2	-124.0
Area 1	G6M-04-31X	10/10/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.23 J	1.0 U	**330**	**77**	**77,000**	**5,200**	-	-	-	-	-	-	-	-	6.52	1.605	2.01	0.60	11.8	-119.1
Area 1	G6M-04-31X	11/7/2024	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**290**	**40**	**40,000**	**2,400**	-	-	-	-	-	-	-	-	6.68	0.69	18.7	1.11	11.9	-105
Area 1	G6M-13-05X	1/30/2014	10 U	16	**250**	10 U	10U	10 U	-	-	-	-	-	-	-	-	-	-	-	-	8.63	1.112	3.09	0.37	11.4	-86.6
Area 1	G6M-13-05X	6/10/2014	0.54	70	**1,200**	0.40 J	**12**	0.5 U	**11**	0.299 J	299 J	556	-	-	-	-	-	-	-	-	7.65	0.515	8.19	0.46	11.3	-107.0
Area 1	G6M-13-05X	11/4/2014	32 U	**77**	**1,700**	32 U	**13 J**	32 U	6.6	0.23	233	565	-	-	-	-	-	-	-	-	7.43	0.417	9.73	0.47	18.3	-93.6
Area 1	G6M-13-05X	6/16/2015	0.5 U	62	**1,520**	0.5 U	**12**	0.5 U	5.2	0.05 U	50 U	229	-	-	-	-	-	-	-	-	7.04	0.398	33.2	1.63	12.7	57.0
Area 1	G6M-13-05X	10/13/2015	1.0 U	63	**1,120**	1.0 U	**11**	1.0 U	2.3 J	0.1 U	100 U	235	-	-	-	-	-	-	-	-	7.22	0.525	2.14	0.99	11.2	59.5
Area 1	G6M-13-05X	2/10/2016	10 U	24	**770**	10 U	**5.2 J**	10 U	4.0 U	0.1 U	100 U	199	10 U	10 U	10 U	1.4	25	10 U	1.0 U	2.0 U	6.20	0.523	20.2	4.39	9.7	244.6
Area 1	G6M-13-05X	6/15/2016	10 U	50	**1,200**	10 U	**9.6**	10 U	3.0	0.022 J	22 J	130	-	-	-	-	-	-	-	-	6.41	0.582	2.59	0.89	12.3	55.2
Area 1	G6M-13-05X	11/10/2016	10 U	31	**830**	10 U	**7.2 J**	10 U	3.0 U	0.05 U	50 U	54	-	-	-	-	-	-	-	-	6.57	0.404	2.47	2.63	9.2	20.9
Area 1	G6M-13-05X	5/18/2017	20 U	64 J	**1,300**	20 U	20 U	20 U	3.0 U	0.28	280	350	1.1 U	1.0 U	0.58 U	1.5	32 J	1.0 U	1.0 U	1.0 U	11.40	0.550	7.65	3.97	12.7	25.1
Area 1	G6M-13-05X	10/5/2017	10 U	**750**	**280**	10 U	**69**	10 U	**35**	**12**	**12,000**	**1,700**	1.1 U	1.0 U	32	0.04 J	49	1.0 U	28	1.0 U	5.95	0.630	27.4	0.51	12.8	19.7
Area 1	G6M-13-05X	4/5/2018	10 U	**410**	**59**	10 U	**81**	**5.6 J**	**85**	**32**	**32,000**	**3,900**	0.75 J	1.1	6,800	0.10	77	0.95 J	85	1.0 U	6.31	0.641	5.92	0.89	10.3	-20.9
Area 1	G6M-13-05X	10/16/2018	5.0 U	**250**	5.0 U	5.0 U	2.7 J	**57**	**95**	**66**	**66,000**	**15,000**	4.1	39	16,000	0.05 U	170	5.0 U	210	1.0 U	4.99	0.973	4.83	0.45	11.2	87.2

Appendix D
Historical Groundwater Analytical Results
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 1	G6M-13-05X	4/5/2019	1.0 U	**120**	1.0 U	1.2	0.62 J	**39**	**120**	**83**	**83,000**	**20,000**	8.7	65	25,000	0.23	-	1.0 U	150	1.0 U	6.00	1.100	1.80	0.74	8.6	-13.0
Area 1	G6M-13-05X	10/10/2019	1.0 U	33	1.5 J	0.93 J	1.8	**38**	**130**	**94**	**94,000**	**19,000**	3.3	33	12,000	0.05 U	140	1.0 U	37	0.83 U	7.80	0.950	7.00	0.14	12.0	-65.6
Area 1	G6M-13-05X	5/12/2020	1.0 U	8.4	1.0 U	0.88 J	1.3 J	**10**	**120**	**100**	**100,000**	**16,000**	27	57	19,000	0.10 U	160	5.0 U	27	0.81 U	6.30	1.010	7.30	0.60	12.7	-54.2
Area 1	G6M-13-05X	10/13/2020	1.0 U	1.3	1.0 U	0.48 J	1.0 U	1.7	**150**	**110**	**110,000**	**15,000**	21	11	4,000	0.12 U	130	1.0 U	12	0.81 U	6.82	0.689	4.82	0.61	11.1	-104.0
Area 1	G6M-13-05X	5/11/2021	1.0 U	42	**50**	1.0	**18**	**29**	**120**	**53**	**53,000**	**6,400**	45	77	17,000	0.028 J	71	0.59 J	4.4	0.81 U	6.51	0.567	154.92	0.97	14.2	-75.5
Area 1	G6M-13-05X	10/14/2021	1.0 U	23	**9.2**	0.64 J	2.8	**13**	**130**	**92**	**92,000**	**10,000**	30	35	17,000	0.043 J	91	1.0 U	11	0.81 U	6.74	1.800	21.4	0.74	12.5	-117.0
Area 1	G6M-13-05X	5/2/2022	1.0 U	16	**8.0**	0.54 J	2.4	**9.4**	**150**	**78**	**78,000**	**8,300**	55	23	21,000 J	0.049 J	65	1.0 U	6.9	1.5 U	6.64	0.728	4.89	0.73	12.0	-143.0
Area 1	G6M-13-05X	10/3/2022	1.0 U	12	**24**	0.57 J	12	**12**	**110**	**68**	**68,000**	**7,100**	47	12	16,000	0.025 U	250	1.0 U	3.9	1.7 U	6.93	0.580	27.81	1.09	13.5	-109.9
Area 1	G6M-13-05X	6/7/2023	1.0 U	14	**39**	0.42 J	**6.3**	**27**	**160**	**72**	**72,000**	**6,400**	18	8.1	4,000	0.12	61	1.0 U	3.7	1.5 U	6.63	1.020	7.68	0.7	13.0	-135.0
Area 1	G6M-13-05X	10/17/2023	1.0 U	33	**10**	0.49 J	3.2	**42**	**150**	**70**	**70,000**	**6,000**	26	20	23,000	0.086 J	64	2.0 U	5.9	-	6.78	0.784	3.69	0.45	13.1	-74.4
Area 1	G6M-13-05X	4/22/2024	1.0 U	7.2	**16**	0.50 J	0.5 U	**8.2**	**140**	**67**	**67,000**	**5,900**	34	18	20,000	0.082 J	57	5.0 U	3.7	1.6 J	6.79	0.67	51.8	0.37	12.2	-79.2
Area 1	G6M-13-05X	11/11/2024	1.0 U	9.1	**24**	0.45 J	**8.5**	**9.6**	**130**	**52**	**52,000**	**4,500**	24	10	13,000	0.016 J	57	1.0 U	2.8	1.7 U	6.61	0.65	17.8	1.55	14.9	-95.4
Area 1	G6M-13-06X	1/30/2014	8.0 U	**300**	3.9 J	8.0U	8.0 U	**95**	-	-	-	-	-	-	-	-	-	-	-	-	6.61	2.521	35.9	0.33	10.8	-38.3
Area 1	G6M-13-06X	6/12/2014	0.37 J	**180**	0.5 U	0.68	0.44 J	**330**	**444**	**365**	**365,000**	**16,900**	1.3 U	33 J	18,000 J	0.13 U	710 J	0.68 J	160	0.03 U	6.42	1.710	13.7	0.24	19.0	-88.9
Area 1	G6M-13-06X	10/30/2014	0.5 U	14	0.5 U	0.70	0.5 U	**15**	**558**	**274**	**274,000**	**12,500**	1.2 U	63	79,000	0.13 U	580	0.42 J	42	0.03 U	6.31	1.943	20.1	0.24	18.3	-99.0
Area 1	G6M-13-06X	6/16/2015	0.5 U	3.9	0.5 U	0.98 J	0.5 U	**6.0**	**546**	**246**	**246,000**	**16,900**	10 U	27	10,300	0.15	510	1.0 J	55	1.0 U	6.25	1.989	31.9	0.11	11.3	-40.1
Area 1	G6M-13-06X	9/9/2015	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**4.0 J**	**511**	**269**	**269,000**	**22,500**	5.0 U	37	18,200	0.11	-	10 U	82	6.5	6.02	1.745	4.09	0.16	12.2	-53.6
Area 1	G6M-13-06X	10/14/2015	5.0 U	3.2 J	5.0 U	5.0 U	5.0 U	5.0 U	**531**	**260**	**260,000**	**21,300**	10 U	30	11,300	0.071 J	434	1.7	62	1.5	5.71	0.904	1.46	1.19	19.3	100.7
Area 1	G6M-13-06X	2/9/2016	1.0 U	2.0	1.0 U	0.80 J	1.0 U	**4.6**	**536**	**226**	**226,000**	**12,000**	10 U	32	14,500	0.17	409	10 U	46	2.0 U	6.35	1.204	3.69	1.07	7.1	-23.7
Area 1	G6M-13-06X	6/14/2016	1.0 U	1.9	1.0 U	0.59 J	1.0 U	**4.2**	**490**	**280**	**280,000**	**18,000**	1.1 U	41	13,000	0.05 U	640	0.8 U	150	1.0 U	6.40	2.223	2.27	0.57	10.7	-48.4
Area 1	G6M-13-06X	11/8/2016	1.0 U	9.8	1.0 U	0.55 J	1.0 U	**7.7**	**470**	**250**	**250,000**	**9,600**	1.1 U	23	11,000	0.05 U	560	1.0 U	55	5.8	6.42	1.230	4.72	1.47	8.2	-127.3
Area 1	G6M-13-06X	5/19/2017	1.0 U	2.2	1.0 U	0.45 J	1.0 U	**2.6**	**500**	**250**	**250,000**	**7,000**	14	16	17,000	0.14 J	470	3.0	70 J	1.0 U	5.96	1.450	7.43	1.01	10.9	-64.8
Area 1	G6M-13-06X	10/5/2017	1.0 U	2.3 J	1.0 U	1.0 U	1.0 U	1.1	**490**	**220**	**220,000**	**7,500**	6.0	6.3	6,000	0.17 J	440	1.0 U	72	1.0 U	6.20	1.460	15.2	0.31	11.0	-88.6
Area 1	G6M-13-06X	10/19/2018	1.0 U	0.67 J	1.0 U	1.0 U	1.0 U	1.2	**400**	**220**	**220,000**	**5,300**	12	18	17,000	0.18	480	2.0 U	120	1.0 U	6.25	2.131	13.2	1.50	10.5	-61.9
Area 1	G6M-13-06X	10/10/2019	1.0 U	1.0	1.0 U	1.0 U	1.0 U	0.82 J	**500**	**220**	**220,000**	**2,900**	11	14	11,000	0.29 J	420	1.0 U	110	1.2	7.00	1.500	18.0	0.11	11.0	-35.0
Area 1	G6M-13-06X	10/13/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**430**	**220**	**220,000**	**2,500**	10	3.0	11,000	0.22 U	540	1.0 U	120	0.81 U	6.26	1.080	41.5	0.39	11.2	-63.2
Area 1	G6M-13-06X	10/12/2021	1.0 U	1.5	2.0 U	1.0 U	1.0 U	0.59 J	**440**	**220**	**220,000**	**2,300**	8.4	4.7	12,000	0.064 J	310	1.0 U	150	0.81 U	6.28	2.080	23.8	0.76	11.8	-69.2
Area 1	G6M-13-06X	10/3/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**360**	**160**	**160,000**	1,100	11	3.4	16,000	0.025 U	78	1.0 U	69	1.7 U	6.38	0.781	8.94	1.04	11.5	-57.1
Area 1	G6M-13-06X	10/17/2023	1.0 U	1.1 J	1.0 U	1.0 U	0.5 U	0.54 J	**390**	**180**	**180,000**	1,300	15	5.6	24,000	0.072 J	260	2.0 U	52	-	6.17	0.973	2.95	0.36	13.0	-52.5
Area 1	G6M-13-06X	11/11/2024	1.0 U	0.53 J	1.0 U	1.0 U	0.5 U	1.0 U	**380**	**150**	**150,000**	1,000	11	0.71 U	18,000	0.025 U	200	1.0 U	25	5.7	6.11	0.8	15.2	1.18	12.6	-54.6
Area 1	G6M-93-13X	10/15/2001	1.0 U	2.0 U	0.55 J	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.30	6.000	1.20	9.90	14.9	355.0
Area 1	G6M-93-13X	9/20/2004	1.0 U	2.0 U	3.8	2.0 U	2.0 U	2.0 U	5.0 U	1.0	1,000	15 U	0.008	0.014	0.89	1.3 J	23	10	1.0 U	2.7 J	6.14	0.059	4.31	13.1	12.4	250.7
Area 1	G6M-93-13X	12/13/2004	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	0.005 U	0.005 U	3.8	1.2	20	9.6	5.0 U	2.0 U	6.16	0.080	1.42	10.4	14.8	192.5
Area 1	G6M-93-13X	3/29/2005	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	0.006	0.28	3.1	0.2 U	22	9.1	0.6 J	2.0 U	6.24	0.090	0.64	10.4	15.9	97.3
Area 1	G6M-93-13X	6/28/2005	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1,000 U	10 U	0.023	0.020	9.4	0.081	41	8.2	4.9	1.0 U	11.30	0.275	2.46	11.4	13.3	146.1
Area 1	G6M-93-13X	9/26/2005	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	0.006 J	0.018 J	4.9	0.083	27	9.5	3.1	1.0 U	6.04	0.126	18.2	7.98	15.2	191.8
Area 1	G6M-93-13X	12/13/2005	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	0.008 J	0.011 J	9.3	3.4	41	9.4	4.4 J	1.0 U	6.48	0.086	0.50	9.55	13.7	69.6
Area 1	G6M-93-13X	3/21/2006	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	19	0.025 U	0.046	9.5	0.2 U	24	6.8	6.8	1.0 U	6.87	0.058	0.61	9.55	13.0	-9.4
Area 1	G6M-93-13X	6/19/2006	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	28	0.008 J	0.008 J	5.3	0.2 U	46	4.4	1.4 J	1.0 U	6.33	0.087	1.34	9.14	11.5	190.1
Area 1	G6M-93-13X	9/18/2006	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.006 J	0.014 J	5.0	0.2 U	22	7.8	4.6 J	1.0 U	6.22	0.062	4.62	9.33	10.4	173.6
Area 1	G6M-93-13X	3/28/2007	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.005 J	0.014 J	9.6	-	-	5.7	5.0 U	1.0 U	6.14	0.071	8.73	9.80	12.6	-3.1
Area 1	G6M-93-13X	6/11/2007	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.034	0.30	13	-	-	9.0	0.4 J	1.0 U	6.64	0.121	3.30	10.1	14.0	125.4
Area 1	G6M-93-13X	9/11/2007	1.0 U	2.0 U	3.0	2.0 U	2.0 U	2.0 U	6.0 U	0.1 U	100 U	15 U	0.005 J	0.025 U	2.8	0.2 U	99	12	0.70 J	1.0 U	6.31	0.095	7.10	9.67	12.4	96.7
Area 1	G6M-93-13X	12/10/2007	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.004 J	0.007 J	1.1	-	-	6.9	5.0 U	1.0 U	6.25	0.156	0.60	8.81	11.8	71.0
Area 1	G6M-93-13X	3/10/2008	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.20	200	**12,000**	0.008 J	0.050	10	-	-	100	34	1.0 U	6.30	0.953	< 0.01	3.84	16.0	141.0
Area 1	G6M-93-13X	10/15/2008	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	8.0 U	0.2 U	200 U	**3,270**	1.3 U	1.6 U	5.6	3.6	110	34	10 U	0.03 U	6.31	0.304	< 0.01	2.97	15.2	116.4
Area 1	G6M-93-13X	5/7/2009	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.5 J	0.2 U	200 U	50 U	1.2 U	1.5 U	2.2	0.71	67 J	16	10 U	0.03 U	6.26	0.164	1.10	6.10	-	79.6
Area 1	G6M-93-13X	10/19/2009	0.5 U	0.5 U	0.5 U	0.5 U	**15**	0.5 U	8.0 U	0.142 U	142 U	50 U	1.3 U	1.6 U	6.3	0.058 J	54	9.2	10 U	0.03 U	6.42	0.110	1.01	4.79	15.7	182.0
Area 1	G6M-93-13X	4/21/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.115 U	115 U	25 U	1.2 U	1.5 U	440	0.13 U	140	10	6.5 J	0.03 U	6.19	0.109	< 0.01	9.03	15.2	37.3
Area 1	G6M-93-13X	10/6/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	25 U	1.2 U	1.5 U	16	0.05 J	63	11	10 U	0.03 U	6.12	0.116	3.42	4.77	17.3	114.0
Area 1	G6M-93-13X	9/9/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	0.1 U	100 U	207	10 U	10 U	10 U	0.11 U	-	50	-	2.0 U	6.02	1.745	4.09	0.16	12.2	-53.6
Area 1	G6M-93-13X	2/9/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	0.1 U	100 U	12 J	10 U	10 U	10 U	0.11 U	86	73	2.2	2.0 U	6.21	0.350	10.7	1.64	9.0	232.3
Area 1	G6M-93-13X	6/14/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.045 J	45 J	130	-	-	-	-	-	-	-	-	6.35	0.306	14.0	1.01	13.4	63.1
Area 1	G6M-93-13X	11/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.15	150	230	-	-	-	-	-	-	-	-	6.47	0.192	11.4	0.91	9.5	-29.7
Area 1	G6M-95-19X	10/15/2001	1.0 U	42	**110**	1.5 J	**6.6**	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.46	2.870	8.50	6.24	9.8	202.0
Area 1	G6M-95-19X	9/20/2004	1.0 U	16	**41**	2.0 U	2.9	2.0 U	5.0 U	1.0	1,000	210	-	-	-	-	-	-	-	-	5.45	4.170	3.10	7.92	14.1	467.5
Area 1	G6M-95-19X	9/26/2005	1.0 U	5.4	**21**	2.0 U	2.0 U	2.0 U	8.3	1.0 U	1,000 U	160	-	-	-	-	-	-	-	-	4.00	4.361	0.72	4.51	14.5	595.3
Area 1	G6M-95-19X	9/19/2006	1.0 U	2.0 U	**12**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	160	-	-	-	-	-	-	-	-	3.82	4.236	2.41	6.77	11.8	281.0
Area 1	G6M-95-19X	9/12/2007	1.0 U	4.0	**21**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	200	-	-	-	-	-	-	-	-	5.28	6.566	0.40	7.62	12.5	175.1
Area 1	G6M-95-19X	10/15/2008	0.5 U	1.6 J	**14 J**	0.5 U	0.39 J	0.5 U	8.0 U	0.2 U	200 U	212	-	-	-	-	-	-	-	-	5.35	5.306	0.90	6.63	12.2	267.9
Area 1	G6M-95-19X	10/16/2009	20 U	20 U	20 U	20 U	**540**	20 U	8.0 U	0.2 U	200 U	153	-	-	-	-	-	-	-	-	5.22	4.529	1.49	4.53	11.5	232.0
Area 1	G6M-95-19X	1/15/2010	0.75 U	0.46 J	**6.9**	0.75 U	0.5 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.46	4.733	2.17	4.09	10.5	243.8
Area 1	G6M-95-19X	10/7/2010	0.5 U	0.5 U	1.8	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	186	-	-	-	-	-	-	-	-	5.34	4.211	3.88	3.35	9.8	159.4
Area 1	G6M-95-19X	10/7/2011	0.5 U	0.5 U	2.2	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	242	-	-	-	-	-	-	-	-	5.51	2.319	1.10	2.90	12.7	132.2
Area 1	G6M-95-19X	10/15/2012	0.5 U	0.5 U	3.3	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	1,450	-	-	-	-	-	-	-	-	5.53	7.618	0.19	2.80	9.9	225.1
Area 1	G6M-95-19X	10/18/2013	0.5 U	0.5 U	2.4	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	**2,250**	-	-	-	-	-	-	-	-	5.49	3.827	5.42	1.44	10.3	154.9
Area 1	G6M-95-19X	11/3/2014	0.5 U	0.5 U	3.0	0.5 U	0.5 U	0.5 U	2.5 U	0.085 U	85 U	1,190	-	-	-	-	-	-	-	-	5.73	2.189	2.78	3.06	10.0	202.5
Area 1	G6M-95-19X	10/14/2015	1.0 U	1.0 U	1.9	1.0 U	1.0 U	1.0 U	4.0 U	0.1 U	100 U	739	-	-	-	-	-	-	-	-	5.85	4.126	1.43	1.10	10.9	170.4
Area 1	G6M-95-19X	11/8/2016	1.0 U	1.0 U	1.6	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	760	-	-	-	-	-	-	-	-	2.68	2.952	3.39	1.70	12.5	67.5
Area 1	G6M-95-19X	10/5/2017	1.0 U	1.0 U	1.9	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	1,400	-	-	-	-	-	-	-	-	5.60	3.530	3.41	1.22	13.0	171.7
Area 1	G6M-95-19X	10/17/2018	1.0 U	1.0 U	1.6	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.43	4.601	1.99	2.08	11.7	246.1

Appendix D
Historical Groundwater Analytical Results
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 1	G6M-95-19X	10/9/2019	1.0 U	1.0 U	1.9	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.58	4.800	0.77	2.75	12.0	103.0
Area 1	G6M-95-19X	10/16/2020	1.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.54	3.020	3.38	1.88	14.6	170.0
Area 1	G6M-95-19X	10/14/2021	1.0 U	1.0 U	0.92 J	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.44	5.980	2.38	4.46	11.3	242.0
Area 1	G6M-95-19X	10/4/2022	1.0 U	1.0 U	1.4 J	1.0 U	0.5 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.69	2.727	0.35	3.61	12.8	224.1
Area 1	G6M-95-19X	10/18/2023	1.0 U	1.0 U	1.0 J	1.0 U	0.5 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.53	2.990	0.72	4.17	12.8	-0.2
Area 1	G6M-95-19X	11/12/2024	1.0 U	1.0 U	1.7 J	1.0 U	0.5 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.73	1.63	1.53	2.32	9.8	59.9
Area 1	G6M-95-20X	10/16/2001	1.0 U	2.0 U	4.4	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.90	0.270	4.10	7.20	11.2	212.0
Area 1	G6M-95-20X	2/25/2002	1.0 U	2.0 U	5.0	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.59	0.171	7.67	12.4	11.5	155.7
Area 1	G6M-95-20X	2/27/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7	-	-	-	-	-	-	-	-	10.4	-
Area 1	G6M-95-20X	9/21/2004	1.0 U	2.0 U	2.8	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	-	-	-	-	-	-	-	-	5.76	0.544	< 0.01	8.88	11.3	205.5
Area 1	G6M-95-20X	9/26/2005	1.0 U	2.0 U	2.3	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	-	-	-	-	-	-	-	-	5.62	0.741	0.95	8.75	11.4	328.7
Area 1	G6M-95-20X	9/19/2006	1.0 U	42	2.2	2.0 U	2.0 U	2.0 U	**71**	**350**	**350,000**	**39,000**	-	-	-	-	-	-	-	-	6.31	2.715	4.19	0.76	12.2	-108.0
Area 1	G6M-95-20X	9/12/2007	1.0 U	11	2.0 U	2.0 U	2.0 U	2.0 U	**160**	**110**	**110,000**	**15,000**	-	-	-	-	-	-	-	-	6.49	0.740	73.7	3.19	12.6	-114.3
Area 1	G6M-95-20X	10/15/2008	0.5 U	2.5	0.38 J	0.5 U	0.20 J	0.5 U	**97**	**46**	**45,600**	**5,250**	-	-	-	-	-	-	-	-	6.45	0.511	4.20	0.49	9.5	-104.4
Area 1	G6M-95-20X	10/16/2009	0.5 U	3.1	0.5 U	0.5 U	**37 J**	0.5 U	**166**	**206**	**206,000**	**7,660**	-	-	-	-	-	-	-	-	6.61	0.898	8.81	0.29	13.4	-81.4
Area 1	G6M-95-20X	10/6/2010	0.5 U	5.1	0.5 U	0.5 U	0.5 U	1.8	**149**	**546**	**546,000**	**12,200**	-	-	-	-	-	-	-	-	6.49	2.047	36.6	0.11	14.2	-124.3
Area 1	G6M-95-20X	10/7/2011	0.5 U	1.5	0.5 U	0.5 U	0.5 U	0.5 U	**108**	**58**	**57,800**	**3,610**	-	-	-	-	-	-	-	-	6.59	0.234	4.00	0.10	14.3	-112.9
Area 1	G6M-95-20X	10/15/2012	0.5 U	1.0	0.5 U	0.5 U	0.5 U	0.5 U	**112**	**68**	**67,900**	**3,140**	-	-	-	-	-	-	-	-	6.58	0.526	4.83	0.60	12.7	-98.2
Area 1	G6M-95-20X	10/18/2013	0.5 U	0.59	0.5 U	0.5 U	0.29 J	0.5 U	**80**	**30**	**30,000**	**1,760**	-	-	-	-	-	-	-	-	6.56	0.410	3.37	0.18	12.6	-79.5
Area 1	G6M-95-20X	10/31/2014	0.5 U	0.5 U	2.7	0.5 U	0.53	0.5 U	7.9	**20**	**20,300**	1,160	-	-	-	-	-	-	-	-	6.59	0.688	4.03	0.16	10.9	-105.1
Area 1	G6M-95-20X	10/13/2015	1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U	**32**	**110**	**110,000**	614	-	-	-	-	-	-	-	-	6.61	0.722	2.86	0.55	12.2	-55.0
Area 1	G6M-95-20X	11/8/2016	1.0 U	1.0 U	0.82 J	1.0 U	1.0	1.0 U	**26**	**14**	**14,000**	940	-	-	-	-	-	-	-	-	4.99	0.799	7.04	0.54	13.6	-5.6
Area 1	G6M-95-20X	10/5/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**18**	**6.3**	**6,300**	410	-	-	-	-	-	-	-	-	5.80	0.603	11.0	0.35	14.5	27.8
Area 1	G6M-95-20X	10/17/2018	1.0 U	1.0 U	1.1	1.0 U	0.64 J	1.0 U	**18**	**3.5**	**3,500**	170	-	-	-	-	-	-	-	-	5.84	0.426	24.9	0.13	12.2	154.3
Area 1	G6M-95-20X	10/10/2019	1.0 U	1.5	1.0 U	1.0 U	0.55 J	1.0 U	**73**	**39**	**39,000**	**1,500**	-	-	-	-	-	-	-	-	6.92	0.310	9.70	0.15	12.0	-39.8
Area 1	G6M-95-20X	10/14/2020	1.0 U	0.41 J	1.0 U	1.0 U	1.0 U	1.0 U	**87**	**54**	**54,000**	**2,200**	-	-	-	-	-	-	-	-	6.49	0.255	3.45	0.50	11.8	-52.1
Area 1	G6M-95-20X	10/14/2021	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	**37**	**6.5**	**6,500**	440	-	-	-	-	-	-	-	-	6.04	0.887	44.80	1.11	11.5	22.9
Area 1	G6M-95-20X	10/4/2022	1.0 U	1.0 U	0.49 J	1.0 U	0.20 J	1.0 U	**32**	3.0	3,000	220	-	-	-	-	-	-	-	-	6.38	0.133	3.18	1.35	13.6	56.7
Area 1	G6M-95-20X	10/17/2023	1.0 U	1.0 U	0.48 J	1.0 U	0.29 J	1.0 U	8.5	1.8	1,800	120	-	-	-	-	-	-	-	-	6.10	0.159	2.12	0.68	13.4	-13.7
Area 1	G6M-96-13B	10/15/2001	1.0 U	**220**	**3,600**	12	**39**	1.1 J	**35**	**15**	**15,000**	1,200	-	-	-	-	-	-	-	-	5.93	0.18	4.21	1.5	10.7	41.1
Area 1	G6M-96-13B	2/25/2002	1.0 U	**200**	**5,200**	1.4 J	**34**	1.5 J	-	-	-	-	-	-	-	-	-	-	-	-	6.10	0.120	6.80	2.90	12.6	219.0
Area 1	G6M-96-13B	1/31/2003	1.0 U	**190**	**3,800**	2.0 U	**31**	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.40	1.142	6.59	3.85	13.6	181.5
Area 1	G6M-96-13B	9/20/2004	1.0 U	**210**	**4,500**	2.0 U	**35**	**2.1**	5.0 U	1.0	1,000	15 U	0.022	0.12	1.7	5.4 J	38	19	1.0 U	2.0	-	-	-	-	12.1	-
Area 1	G6M-96-13B	12/13/2004	1.0 U	**150**	**2,500**	2.0 U	**24**	2.0 U	5.0 U	1.0 U	1,000 U	23	0.050	0.025	24	5.0	35	31 J	5.0 U	2.0 U	6.30	1.035	0.50	3.57	11.4	186.4
Area 1	G6M-96-13B	3/28/2005	200 U	**180 J**	**4,500**	200 U	200 U	200 U	5.0 U	2.6	2,600	**1,600**	0.17	0.22	37	0.46	47	17	5.7	2.0 U	6.26	0.787	2.68	2.57	12.5	316.5
Area 1	G6M-96-13B	8/10/2005	4.8	**1,500**	**2,800**	3.6	**190**	**6.8**	**32**	**24 J**	**24,000 J**	**8,100**	0.15	0.44	2.9	0.23	99	4.6	140	5.3	6.24	0.943	0.68	0.87	10.1	21.2
Area 1	G6M-96-13B	9/26/2005	5.0 U	**570**	**3,700**	5.0 U	**140**	5.0 U	**44**	**51 J**	**51,000 J**	**12,000**	0.054	0.33	18	0.28	134	11	200	11	4.35	0.838	3.50	0.16	-	-35.6
Area 1	G6M-96-13B	12/13/2005	5.0 U	**350**	**3,400**	10 U	**130**	10 U	**46**	**63 J**	**63,000 J**	**12,100**	0.069	0.35	31	0.05 U	150	11	140	4.5	4.98	1.071	4.54	1.32	13.5	-45.9
Area 1	G6M-96-13B	3/20/2006	1.2	**400**	**2,100**	2.0 U	**250**	**2.5**	**38**	**96**	**96,000**	**17,000**	0.036	0.42	97	0.21	300	6.8	360	2.4	5.51	0.851	0.90	0.13	16.4	-52.1
Area 1	G6M-96-13B	6/20/2006	1.0 U	**370**	**1,900**	2.0 U	**280**	**3.5**	**48 J**	**100**	**100,000**	**16,000**	0.044	0.27	200	0.2 U	310	4.2	110	4.8	5.68	0.759	7.10	0.17	15.1	-161.5
Area 1	G6M-96-13B	9/18/2006	1.3	**530**	**880**	2.0 U	**370**	**9.4**	**150**	**110**	**110,000**	**20,000**	0.022 J	0.43	2,400	0.26	370	4.6	300	3.0	5.46	1.252	2.63	0.62	13.3	-86.8
Area 1	G6M-96-13B	3/27/2007	2.1	**590**	**940**	2.6	**290**	**26**	**250**	**230**	**230,000**	**35,000 J**	0.025 U	0.96	22,000	-	-	4.3	140	1.6	6.14	1.555	2.19	0.48	12.5	-120.9
Area 1	G6M-96-13B	6/11/2007	1.7	**610**	**1,200**	2.0 U	**280**	**55**	**200**	**200**	**200,000**	15 U	0.025 U	0.68	22,000	-	-	8.2	260	2.2	5.71	1.861	1.79	0.10	12.5	-16.8
Area 1	G6M-96-13B	9/10/2007	1.6	**590**	**2,600**	2.0 U	**130 J**	**38**	**240**	**210**	**210,000**	**25,000**	0.036	6.3	32,000	0.2 U	410	580	270	2.8	6.24	1.870	1,322	0.15	12.0	-97.5
Area 1	G6M-96-13B	12/11/2007	1.5	**830**	**750**	2.0 U	**99**	**110**	**260**	**230**	**230,000**	**25,000**	0.005 J	3.6	26,000	-	-	429	240	2.4	6.25	1.866	15.5	0.40	13.0	-136.3
Area 1	G6M-96-13B	3/10/2008	1.7	**1,000**	**1,200**	2.0 U	**140**	**140**	**240**	**240**	**240,000**	**26,000**	0.025 U	8.3	29,000	-	-	5.0 U	210	2.0	6.11	1.907	8.00	1.92	12.0	-25.7
Area 1	G6M-96-13B	10/15/2008	10 U	**490**	**7.3 J**	10 U	**6.5 J**	**350**	**172**	**290**	**290,000**	**39,500**	1.2 U	5.7	9,700	0.13 U	470	21	92	0.03 U	6.18	1.958	6.40	1.55	11.3	-90.2
Area 1	G6M-96-13B	5/7/2009	10 U	**310**	**190**	10 U	**75**	**95**	**169**	**323**	**323,000**	**38,600**	1.2 U	13	46,000	0.13 U	740 J	32	74	0.03 U	6.19	2.046	11.0	0.90	13.0	-59.2
Area 1	G6M-96-13B	10/19/2009	10 U	**290**	**440**	10 U	**140**	**89**	**173**	**325**	**325,000**	**36,000**	1.2 U	9.2	52,000	0.022 U	630	53	54	0.041	6.09	1.909	4.00	0.10	10.5	-97.6
Area 1	G6M-96-13B	4/21/2010	2.0 U	**100**	**93**	2.0 U	**29**	**57**	**217**	**400 J**	**400,000 J**	**39,100**	1.3 U	15	37,000	0.13 U	610	0.71 J	130	0.041	6.32	2.054	13.6	1.53	-	-93.1
Area 1	G6M-96-13B	10/6/2010	0.70	**150**	**360**	1.5	**150**	**65**	**222**	**366**	**366,000**	**37,500**	1.2 U	18	96,000	0.045 J	95	1.1 J	57	0.03 U	6.21	2.496	11.0	0.13	-	18.2
Area 1	G6M-96-13B	6/9/2011	1.4	**270**	**740**	1.9	**90**	**86**	**242**	**304**	**304,000**	**25,100**	3.7	44	110,000	0.023 J	300	0.49J	75	0.03 U	6.19	2.547	12.9	0.22	12.3	-103.4
Area 1	G6M-96-13B	10/4/2011	8.0 U	**79**	**160**	8.0U	**24**	**43**	**284**	**335**	**335,000**	**25,300**	1.2 U	1.5 U	98,000	0.13 U	620	0.35 J	73	0.03 U	6.22	2.126	13.1	0.09	11.5	-112.0
Area 1	G6M-96-13B	5/9/2012	5.0 U	**150**	**130**	5.0 U	**47**	**38**	**298**	**231**	**231,000**	**16,600**	44	100	29,000	0.13 U	500	0.58 J	51	0.13	6.36	1.733	20.0	0.02	10.8	-77.8
Area 1	G6M-96-13B	10/11/2012	5.0 U	**130**	**130**	5.0 U	**48**	**76**	**282**	**209**	**209,000**	**17,100**	81	190	62,000	0.13 U	480	5.0 U	38	0.14	6.47	1.680	12.1	1.70	16.9	-89.7
Area 1	G6M-96-13B	5/22/2013	5.0 U	**230**	**170**	2.7 J	**55**	**100**	**395**	**241**	**241,000**	**18,600**	1.1 U	86	23,000	0.13 U	540 J	5.0 U	29	0.12 J	6.26	2.335	7.09	0.44	10.9	-66.4
Area 1	G6M-96-13B	10/17/2013	4.0 U	**200**	**78**	4.0 U	**38**	**170**	**365**	**234**	**234,000**	**17,600**	2.4	36	18,000	0.13 U	560	5.0 U	37	0.058	6.23	2.270	13.0	0.15	9.7	-84.3
Area 1	G6M-96-25B	10/15/2001	1.0 U	2.0 U	**360**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.46	1.728	17.3	0.15	10.9	-113.1
Area 1	G6M-96-25B	2/25/2002	1.0 U	2.0 U	**130**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.81	0.498	3.90	5.30	12.0	142.0
Area 1	G6M-96-25B	2/27/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.70	0.150	9.75	11.5	13.7	158.5
Area 1	G6M-96-25B	1/31/2003	1.0 U	2.0 U	**52**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	7.2	-	-	-	-	-	-	-	-	13.8	-
Area 1	G6M-96-25B	9/20/2004	1.0 U	2.0 U	**56**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.0	-
Area 1	G6M-96-25B	9/26/2005	1.0 U	2.0 U	**40**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	4.98	0.589	< 0.01	7.63	13.7	593.0
Area 1	G6M-96-25B	9/19/2006	1.0 U	2.0 U	**44**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.82	0.587	1.10	6.74	17.0	314.1
Area 1	G6M-96-25B	9/11/2007	1.0 U	2.0 U	**16**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.20	0.496	1.46	7.64	12.2	223.5
Area 1	G6M-96-25B	10/17/2008	0.5 U	0.5 U	1.7	0.5 U	0.5 U	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	5.91	0.802	9.50	6.29	16.3	96.6
Area 1	G6M-96-25B	10/16/2009	0.5 U	0.5 U	1.9	0.5 U	**38 J**	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	6.80	0.151	4.00	8.41	14.5	89.7
Area 1	G6M-96-25B	10/8/2010	0.5 U	0.5 U	3.1	0.5 U	0.5 U	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	6.27	0.404	4.70	8.08	10.5	183.5
Area 1	G6M-96-25B	10/6/2011	0.5 U	0.5 U	0.58	0.5 U	0.5 U	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	5.80	0.622	1.59	6.70	16.3	190.2
Area 1	G6M-96-25B	10/16/2012	0.5 U	0.5 U	2.0	0.5 U	0.5 U	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	6.85	0.131	4.50	8.11	16.8	69.8
																					5.87	0.572	7.76	7.09	12.7	181.7

Appendix D
Historical Groundwater Analytical Results
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 1/FDSA	G6M-03-04X	10/21/2009	4.0 U	**81**	4.2 U	4.0 U	4.0 U	**4.1**	-	-	-	-	-	-	-	-	-	-	-	-	6.04	0.635	24.5	0.70	19.6	-99.6
Area 1/FDSA	G6M-03-04X	10/16/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.3	-	-	-	-	-	-	-	-	-	-	-	-	6.79	0.622	80.4	0.70	23.0	-123.0
Area 1/FDSA	G6M-04-10A	9/20/2004	1.0 U	3.4	**2,900**	2.0 U	2.5	2.0 U	5.0 U	1.0	1,000	170	0.021	0.030	1.1	4.5 J	41	22	1.0 U	2.0	5.91	0.552	1.70	3.75	10.8	206.5
Area 1/FDSA	G6M-04-10A	12/14/2004	1.0 U	2.0 U	**2,400**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	120	0.015	0.096	1,500	1.7	25	13	5.0 U	2.0 U	5.89	0.965	2.04	2.81	9.6	215.4
Area 1/FDSA	G6M-04-10A	3/30/2005	40 U	40 U	**640**	40 U	40 U	40 U	8.4	1.2	1,200	**8,100**	0.33	0.070	1.4	0.33	107	16	52	2.0 U	5.90	1.010	1.76	4.22	11.0	68.3
Area 1/FDSA	G6M-04-10A	8/11/2005	2.0 U	**390**	**380**	2.0 U	**45**	2.0 U	**77**	**87 J**	**87,000 J**	**50,000 J**	0.24	0.23	3.4	0.05 U	359	7.8	240	1.0 U	5.65	0.977	14.9	1.84	10.1	11.9
Area 1/FDSA	G6M-04-10A	9/27/2005	1.0 U	**260**	**340**	1.0 U	**88**	1.0 U	**190**	**230 J**	**230,000 J**	**76,000**	0.080	0.15	110	0.084	442	3.0 J	330	5.9	6.33	1.135	4.30	1.89	10.8	-1.9
Area 1/FDSA	G6M-04-10A	12/14/2005	1.0 U	**220**	**1,500**	2.0 U	**180**	2.0 U	**179**	**250 J**	**250,000 J**	**32,500**	0.048	0.13	6,800	0.05 U	480	3.7	370	7.4	6.41	0.985	1.90	1.57	10.2	-64.8
Area 1/FDSA	G6M-04-10A	3/21/2006	1.0 U	**450**	**4,400**	2.0 U	**180**	**8.3**	**180**	**220**	**220,000**	**8,100**	0.025 U	0.69	20,000	0.2 U	390	4.1	180	2.0	6.72	0.676	7.51	0.27	9.8	-121.4
Area 1/FDSA	G6M-04-10A	6/20/2006	1.0 U	**330**	**6,100**	2.0 U	**650**	**27**	**160**	**220**	**220,000**	**5,700**	0.025 U	0.12	16,000	0.2 U	340	4.3	120	3.2	6.34	0.893	9.82	0.22	11.0	-99.8
Area 1/FDSA	G6M-04-10A	9/19/2006	1.0 U	59	**1,000**	2.0 U	**15**	**14**	**170**	**97**	**97,000**	**5,000**	0.23	0.11	11,000	0.31	150	5.2	61	1.2	6.56	0.430	6.00	1.14	14.6	-86.9
Area 1/FDSA	G6M-04-10A	3/28/2007	1.6 J	**680 J**	**1,200 J**	2.0 U	**230 J**	**60 J**	**380**	**260**	**260,000**	**27,000 J**	0.65	0.26	20,000	-	-	2.1	130	1.0 U	6.10	1.188	15.4	0.19	11.2	-89.9
Area 1/FDSA	G6M-04-10A	6/12/2007	2.1	**900**	**760**	2.0 U	**140**	**130**	**310**	**260**	**260,000**	**15,000**	0.54	1.1	23,000	-	-	1.0 U	190	2.4	6.58	1.295	129	0.19	15.8	-145.2
Area 1/FDSA	G6M-04-10A	9/11/2007	1.0 U	**400**	**2,700**	2.0 U	**99 J**	**91**	**240**	**290**	**290,000**	**13,000**	0.35	0.47	18,000	0.2 U	440	54	220	2.4	6.42	0.864	42.3	1.72	14.0	-138.2
Area 1/FDSA	G6M-04-10A	12/11/2007	1.0 U	**280**	**830**	2.0 U	**8.8**	**90**	**330**	**280**	**280,000**	**12,000**	0.30	0.52	31,000	-	-	3.6	270	3.0	6.40	1.366	8.00	1.20	10.1	-70.1
Area 1/FDSA	G6M-04-10A	3/10/2008	1.8	**670**	**200**	3.4	**830**	**37**	**340**	**230**	**230,000**	**35,000**	0.34	0.61	25,000	-	-	10	210	2.2	6.53	1.362	24.0	0.94	9.8	-123.8
Area 1/FDSA	G6M-04-10A	10/6/2008	100 U	**990**	**4,000**	100 U	**450**	**1,400**	**247**	**187**	**187,000**	**9,100**	1.3 U	11	16,000	0.13 U	210	12	34	0.03 U	6.38	0.948	15.0	0.21	15.3	-168.0
Area 1/FDSA	G6M-04-10A	1/21/2009	0.67 J	**1,400**	**1,500**	1.0 U	**390**	**1,200**	**250**	**234 J**	**234,000 J**	7.8	1.2 U	9.6	53,000	0.13 U	20 U	20	46 J	0.03 U	6.60	0.937	7.02	0.20	14.3	-112.6
Area 1/FDSA	G6M-04-10A	5/7/2009	10 U	**390 J**	**380**	10 U	**41**	**420**	**292**	**194**	**194,000**	**17,200**	1.2 U	11	34,000	0.13 U	590 J	24	49	0.03 U	6.40	1.165	4.20	0.80	11.3	-125.0
Area 1/FDSA	G6M-04-10A	10/20/2009	50 U	**2,100**	**2,700**	50 U	**290**	**1,400**	**220**	**127**	**127,000**	**8,960**	1.3 U	15	11,000	0.13 U	350	8.7	21	0.03 U	6.42	0.805	11.4	0.17	12.6	-121.4
Area 1/FDSA	G6M-04-10A	4/21/2010	4.0 U	**170**	**170**	4.0 U	**21**	**130**	**286**	**297 J**	**297,000 J**	**18,200 J**	1.3 U	15	21,000 J	0.017 J	670	0.65 J	120	0.03 U	6.58	0.880	7.00	0.70	14.7	-139.5
Area 1/FDSA	G6M-04-10A	10/6/2010	20 U	**600**	**25**	20 U	**10 J**	**190**	**296**	**119**	**119,000**	**4,280**	1.2 U	14	51,000	0.13 U	260	0.98 J	26	0.03 U	6.32	0.694	6.24	0.17	13.6	-85.2
Area 1/FDSA	G6M-04-10A	6/9/2011	0.5 U	**300**	**110**	0.5 U	**36**	**170**	**295**	**198**	**198,000**	**9,140**	1.2 U	5.7	92,000	0.13 U	660	1.2 J	63	0.03 U	6.40	1.243	5.10	0.39	10.5	-105.1
Area 1/FDSA	G6M-04-10A	10/4/2011	40 U	**1,100**	**850**	40 U	**170**	**270**	**322**	**304**	**304,000**	**17,600**	1.2 U	74	36,000	0.13 U	750	1.1 J	160	0.22	6.07	0.629	8.18	0.21	8.3	-94.0
Area 1/FDSA	G6M-04-10A	5/10/2012	20 U	**610**	**180**	20 U	**120**	**200**	**367**	**183**	**183,000**	**6,700**	1.1 U	250	46,000	0.13 U	340	0.70 J	16	0.10	6.49	0.710	9.05	0.48	11.0	-107.7
Area 1/FDSA	G6M-04-10A	10/15/2012	2.0 U	26	2.0 U	2.0 U	2.0 U	**110**	**291**	**185**	**185,000**	**8,250**	1.2 U	44	14,000	0.092 J	340	5.0 U	64	0.13 J	6.43	0.920	5.50	0.60	10.4	-103.7
Area 1/FDSA	G6M-04-10A	5/23/2013	0.5 U	13	0.5 U	0.53	0.5 U	**15**	**342**	**400**	**400,000**	**7,110**	1.2 U	1.5 U	18,000	0.11 J	650	0.84 J	200	0.10 J	6.37	1.311	11.0	1.30	10.6	-84.4
Area 1/FDSA	G6M-04-10A	10/17/2013	10 U	**130 J**	**360 J**	10 U	**92 J**	**14 J**	**292**	**341**	**341,000**	**5,000**	1.2 U	9.4	24,000 J	0.13 U	650	1.1 J	150	0.034 J	6.37	1.756	9.78	0.29	10.5	-95.5
Area 1/FDSA	G6M-04-10A	6/12/2014	0.5 U	1.4	0.5 U	0.5 U	0.23 J	**5.1**	**264**	**164**	**164,000**	**3,730**	2.2 J	1.6 U	9,500 J	0.13 U	200 J	17	29	0.03 U	6.36	1.761	10.9	0.59	10.9	-82.7
Area 1/FDSA	G6M-04-10A	11/3/2014	0.5 U	0.92	0.5 U	0.5 U	0.5 U	**4.4**	**288**	**184**	**184,000**	**2,100**	1.2 U	3.6 J	21,000	0.13 U	240	16 J	34	0.03 U	6.62	1.742	17.0	0.15	11.2	-136.9
Area 1/FDSA	G6M-04-10A	6/19/2015	0.5 U	0.50 J	0.5 U	0.5 U	0.5 U	**5.0**	**274**	**145**	**145,000**	**1,940**	5.0 U	5.0 U	7,510	0.11 U	278	22	18	1.0 U	6.62	2.201	8.06	0.51	10.5	-94.6
Area 1/FDSA	G6M-04-10A	10/13/2015	1.0 U	0.72 J	1.0 U	1.0 U	1.0 U	1.6	**292**	**205**	**205,000**	**2,360**	10 U	10 U	15,000	0.099 J	241	8.6 J	27	2.0 U	6.53	2.367	17.0	0.08	11.3	-119.6
Area 1/FDSA	G6M-04-10A	6/14/2016	1.0 U	1.1	1.0 U	1.0 U	0.64 J	**4.0**	**220**	**82**	**82,000**	**1,700**	1.1 U	1.0 U	13,000	0.05 U	190	7.3	10	1.0 U	5.94	1.878	7.73	0.23	11.9	-66.6
Area 1/FDSA	G6M-04-10A	11/9/2016	1.0 U	0.96 J	1.0 U	1.0 U	0.49 J	1.4	**220**	**92**	**92,000**	**3,200**	1.1 U	1.0 U	7,100	0.05 U	86	17	5.5	1.5	6.50	1.440	5.27	0.37	8.5	-96.9
Area 1/FDSA	G6M-04-10A	5/18/2017	1.0 U	1.4	1.0 U	1.0 U	0.52 J	0.85 J	**170**	**74**	**74,000**	**4,800**	1.1 U	1.0 U	5,500	0.12	38	15	5.7	1.0 U	6.59	1.780	19.2	0.33	10.9	-98.6
Area 1/FDSA	G6M-04-10A	10/12/2017	1.0 U	1.2	1.0 U	1.0 U	1.0 U	0.81 J	**290**	**100**	**100,000**	**4,600**	1.1 U	3.6	9,200	0.12	78	8.4	8.4	1.2	6.62	1.870	16.0	0.97	10.0	-94.7
Area 1/FDSA	G6M-04-10A	4/4/2018	1.0 U	0.89 J	1.0 U	1.0 U	1.0 U	0.60 J	**250**	**98**	**98,000**	**2,600**	1.1 U	3.6	25,000	0.17	190	11	19	1.0 U	6.61	1.279	9.76	1.04	9.6	-90.7
Area 1/FDSA	G6M-04-10A	10/16/2018	1.0 U	1.9	1.0 U	1.0 U	1.0 U	1.2	**230**	**140**	**140,000**	**6,100**	0.99 J	1.0 U	32,000	0.05 U	210	6.5 J	240	1.0 U	5.51	1.243	346	0.72	10.7	-47.2
Area 1/FDSA	G6M-04-10A	4/4/2019	1.0 U	29	1.0 U	1.0 U	**12**	**9.3**	**240**	**140**	**140,000**	**4,400**	3.8	46	19,000 J	0.26	-	4.3	95	1.0 U	5.80	0.800	11.0	1.70	9.5	-29.0
Area 1/FDSA	G6M-04-10A	10/16/2019	1.0 U	**150**	**11**	1.2	**34**	**45**	**210**	**89**	**89,000**	**2,300**	4.0	160	33,000	0.05 U	170	5.6	65	0.96 U	6.37	0.700	21.0	1.12	10.0	-75.7
Area 1/FDSA	G6M-04-10A	05/12/2020	1.0 U	11	1.0 U	0.93 J	1.0 U	**2.9**	**270**	**130**	**130,000**	**3,700**	0.90 J	18	14,000	0.10 U	300	3.8 J	44	0.83 U	6.26	0.628	30.8	0.25	9.9	29.8
Area 1/FDSA	G6M-04-10A	10/14/2020	1.0 U	**120**	**35**	0.65 J	**49**	**26**	**230**	**96**	**96,000**	**3,000**	1.2	25	10,000	0.087 J	210	6.2	22	0.81 U	6.52	0.530	9.96	0.37	15.4	-91.2
Area 1/FDSA	G6M-04-10A	6/17/2021	1.0 U	4.7	0.5 U	0.62 J	0.5 U	1.5 J	**310**	**85**	**85,000**	1,200 J	5.0 U	5.0 U	17,000	0.025 U	220 J	13 J	17	0.80 U	6.22	0.739	7.84	2.80	11.6	-68.8
Area 1/FDSA	G6M-04-10A	10/13/2021	1.0 U	3.6	2.0 U	1.0 U	1.0 U	1.7	**320 J**	**85**	**85,000**	1,100	6.9	9.3	27,000	0.05 U	140	2.8	22	0.81 U	6.52	0.596	76.20	0.54	11.4	-121.0
Area 1/FDSA	G6M-04-10A	5/2/2022	1.0 UJ	2.3 J	1.0 UJ	1.0 J	0.24 J	1.0 UJ	**290 J**	**80**	**80,000**	900	10	24	19,000 J	0.05 UJ	130	1.0 U	14	1.3 UJ	6.55	0.381	4.13	0.79	10.0	-115.0
Area 1/FDSA	G6M-04-10A	10/4/2022	1.0 U	0.74 J	1.0 U	0.35 J	0.39 J	1.0 U	**270 J**	**80**	**80,000**	770 J	16	8.4	20,000 J	0.025 U	180	1.2 J	13	1.7 U	6.58	0.325	7.65	1.33	10.8	-86.3
Area 1/FDSA	G6M-04-10A	6/6/2023	1.0 U	0.71 J	1.0 U	1.0 U	0.5 U	1.0 U	**380 J**	**81**	**81,000**	810	7	3.8	18,000 J	0.057 J	170	0.49 J	18	1.5 U	6.37	0.700	11.40	0.61	13.3	-129.0
Area 1/FDSA	G6M-04-10A	10/19/2023	2.0 U	11	2.0 U	2.0 U	**9.4**	**3.0**	**310**	**85**	**85,000**	860	6.2	9.5	18,000	0.025 U	200	1.0 U	18	1.6 U	6.50	0.360	1.36	0.33	15.5	-67.4
Area 1/FDSA	G6M-04-10A	4/22/2024	1.0 U	4.1	1.0 U	1.0 U	0.5 U	1.0 U	**280**	**41**	**41,000**	440	4.7	2.4	11,000	0.097 J	73	0.44 J	7.1	0.85 J	6.57	0.2	4.58	2.6	12.4	-23.0
Area 1/FDSA	G6M-04-10A	11/8/2024	1.0 U	0.91 J	1.0 U	1.0 U	0.5 U	1.0 U	**260 J**	**33**	**33,000**	400	0.76 U	0.71 U	890 J	0.018 J	46	1.0 U	3.5	1.6 UJ	6.22	0.15	14	8.97	11.8	-38.1
Area 1/FDSA	G6M-04-10X	9/20/2004	1.0 U	32	**70**	2.0 U	**7.5**	2.0 U	5.0 U	1.0	1,000	260	0.019	0.039	1.0	6.7 J	11	21	1.0 U	3.4	5.59	0.902	0.95	6.87	10.2	246.2
Area 1/FDSA	G6M-04-10X	12/14/2004	1.0 U	35	**65**	2.0 U	**7.8**	2.0 U	5.0 U	1.0 U	1,000 U	200	0.022	0.053	2.2	6.6	10 U	23	5.0 U	2.0 U	5.40	0.816	5.50	7.57	16.2	424.2
Area 1/FDSA	G6M-04-10X	3/31/2005	2.0 U	30	**56**	2.0 U	**6.8**	2.0 U	5.0 U	1.0 U	1,000 U	190	0.022	0.86	1.1	1.5	10 U	25	0.4 J	2.0 U	5.18	1.337	0.41	7.65	13.1	256.7
Area 1/FDSA	G6M-04-10X	7/1/2005	1.0 U	23	**50**	2.0 U	**5.4**	2.0 U	4.2	1.0 U	1,000 U	10 U	0.035	0.050	12	1.7	44	12	5.9	1.0 U	5.33	1.502	0.90	6.09	17.5	265.2
Area 1/FDSA	G6M-04-10X	9/27/2005	1.0 U	23	**48**	2.0 U	4.7	2.0 U	5.0 U	1.0 U	1,000 U	170	0.010 J	0.018 J	16	1.4	7.7	26	4.0	1.0 U	5.26	1.123	0.50	6.68	14.7	450.9
Area 1/FDSA	G6M-04-10X	12/14/2005	1.0 U	27	**67**	2.0 U	**6.3**	2.0 U	5.0 U	1.0 U	1,000 U	164	0.016 J	0.034	11	1.5	9.8	28	5.0 U	1.0 U	5.49	1.032	3.40	6.78	10.8	205.1
Area 1/FDSA	G6M-04-10X	3/22/2006	1.0 U	32	**76**	2.0 U	**9.1 J**	2.0 U	5.0 U	1.0 U	1,000 U	200	0.015 J	0.025 J	25	1.4	10 U	24	5.6	1.0 U	5.57	0.940	1.45	6.74	10.6	195.7
Area 1/FDSA	G6M-04-10X	6/20/2006	1.0 U	47	**87**	2.0 U	**10**	2.0 U	5.0 U	0.1 U	100 U	240	0.013 J	0.012 J	18	1.7	10 U	25	5.0 U	1.0 U	5.08	1.512	1.90	6.23	10.9	248.8
Area 1/FDSA	G6M-04-10X	9/19/2006	1.0 U	32	**65**	2.0 U	**6.8**	2.0 U	5.0 U	0.1 U	100 U	240	0.026	0.025 J	13	1.3	8.0	22	2.2 J	1.0 U	5.21	1.660	4.68	6.94	12.2	273.9
Area 1/FDSA	G6M-04-10X	12/13/2006	1.0 U	35	**64**	2.0 U	**7.2**	2.0 U	5.0 U	0.1 U	100 U	280	0.008 J	0.011 J	28	-	-	27	5.0 U	1.0 U	5.38	2.160	0.59	7.90	11.3	39.3
Area 1/FDSA	G6M-04-10X	3/28/2007	1.0 U	26	**56**	2.0 U	**5.9**	2.0 U	5.0 U	0.21	210	290 J	0.017 J	0.054	21	-	-	28	5.0 U	1.0 U	5.21	1.947	3.71	6.37	10.6	77.9
Area 1/FDSA	G6M-04-10X	6/12/2007	1.0 U	9.9	**28**	2.0 U	2.4	2.0 U	5.0 U	0.1 U	100 U	250	0.010 J	0.065	18	-	-	31	5.0 U	1.0 U	5.35	3.150	14.0	6.31	15.9	230.7
Area 1/FDSA	G6M-04-10X	9/11/2007	1.0 U	13	**35**	2.0 U	3.4	2.0 U	6.0 U	0.1 U	100 U	270	0.008 J	0.010 J	13	1.4	10 U	2,000	5.0 U	1.0 U	5.29	2.617	10.5	8.98	14.3	-40.6
Area 1/FDSA	G6M-04-10X	12/11/2007	1.0 U	6.4	**20**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	230	0.010 J	0.028	5.3	-	-	35	5.0 U	1.0 U	5.46	3.660	2.80	5.62	14.5	27.7
Area 1/FDSA	G6M-04-10X	3/11/2008	1.0 U	9.7	**22**	2.0 U	2.1	2.0 U	5.0 U	0.16	160	250	0.004 J	0.010 J	4.1	-	-	28	5.0 U	1.0 U	4.99	2.890	< 0.01	6.42	13.6	213.5
Area 1/FDSA	G6M-04-10X	10/15/2008	0.5 U	8.4	**18**	0.5 U	1.6	0.5 U	8.0 U	0.2 U	200 U	265	1.2 U	1.5 U	6.1	1.4	30	27	10 U	0.03 U	5.28	3.339	1.40	6.58	11.8	247.1
Area 1/FDSA	G6M-04-10X	5/7/2009	0.5 U	5.0	**15**	0.5 U	1.2	0.5 U	8.0 U	0.2 U	200 U	213	1.3 U	1.6 U	0.76	1.2	20 U	33	10 U	0.03 U	5.20	2.229	1.53	5.86	11.2	196.8
Area 1/FDSA	G6M-04-10X	10/20/2009	0.5 U	5.2	**9.8**	0.5 U	4.8	0.27 J	8.0 U	0.139 U	139 U	197	1.3 U	1.6 U	19	1.1	20 U	29	10 U	0.03 U	5.20	2.651	2.68	5.72	11.6	226.2
Area 1/FDSA	G6M-04-10X	4/21/2010	0.5 U	6.5	**24**	0.5 U	1.5	0.5 U	5.0 U	0.1 U	100 U	200	1.3 U	1.6 U	87	1.4	25	31	10 U	0.03 U	5.26	2.760	4.00	5.13	14.4	187.2
Area 1/FDSA	G6M-04-10X	10/6/2010	0.5 U	7.9	**24**	0.5 U	1.8	0.5 U	5.0 U	0.1 U	100 U	208	1.2 U	1.5 U	3.7	1.8	25	28	10 U	0.03 U	5.18	2.937	< 0.01	5.63	12.4	225.7
Area 1/FDSA	G6M-04-10X	10/4/2011	0.5 U	1.9	**9.0**	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	173	1.2 U	1.5 U	47	1.3	20 U	28	4.5 J	0.03 U	5.01	1.078	1.16	4.46	11.3	192.8

Appendix D
Historical Groundwater Analytical Results
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 1/FDSA	G6M-04-10X	10/15/2012	0.5 U	1.9	**15**	0.5 U	0.72	0.5 U	5.0 U	0.1 U	100 U	224	1.2 U	1.5 U	32	1.2	20 U	35	10 U	0.03 U	5.53	3.135	0.33	5.25	12.9	204.0
Area 1/FDSA	G6M-04-10X	10/17/2013	0.5 U	0.50 J	**6.2**	0.5 U	0.28 J	0.5 U	3.3 J	1.3	1,270	262	1.2 U	1.5 U	5,500	0.95	20 U	37	2.7 J	0.03 U	5.32	4.698	2.89	3.90	13.0	164.1
Area 1/FDSA	G6M-04-10X	11/3/2014	0.5 U	0.47 J	**7.4**	0.5 U	0.27 J	0.5 U	2.5 U	1.3	1,320	308	1.2 U	1.5 U	200	1.3 J	20 U	30 J	5.0 U	0.03 U	5.27	2.562	0.97	5.28	12.6	148.4
Area 1/FDSA	G6M-04-10X	9/9/2015	0.5 U	0.5 U	2.8	0.5 U	0.5 U	0.5 U	2.0 U	0.11	114	383	5.0 U	5.0 U	5.0 U	0.92	-	35	0.81 U	1.0 U	5.38	2.257	4.98	3.32	13.1	169.9
Area 1/FDSA	G6M-04-10X	10/13/2015	1.0 U	1.0 U	3.1	1.0 U	1.0 U	1.0 U	4.0 U	0.1 U	100 U	344	10 U	10 U	10 U	1.1	7.2	35	1.0 U	2.0 U	5.31	3.174	28.5	2.86	12.3	202.1
Area 1/FDSA	G6M-04-10X	2/9/2016	1.0 U	1.0 U	2.3	1.0 U	1.0 U	1.0 U	4.0 U	0.053 J	53 J	274	10 U	10 U	6.9 J	0.91	7.1	35	1.0 U	2.0 U	5.49	1.922	19.3	2.49	8.6	196.7
Area 1/FDSA	G6M-04-10X	6/14/2016	1.0 U	1.0 U	3.0	1.0 U	1.0 U	1.0 U	3.0 U	0.073	73	330	5.3	5.1 J	27	1.0	9.4	35	0.63 J	1.0 U	5.72	3.364	0.96	1.77	11.6	102.1
Area 1/FDSA	G6M-04-10X	11/9/2016	1.0 U	1.0 U	2.1	1.0 U	1.0 U	1.0 U	3.0 U	0.036 J	36 J	420	1.1 U	1.0 U	170	0.58	10	32	0.72 J	2.2	5.70	1.546	4.27	0.76	9.2	67.9
Area 1/FDSA	G6M-04-10X	5/18/2017	1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U	3.0 U	0.020 J	20 J	1,100	1.1 U	1.0 U	180	0.42	12	32	1.0 U	1.0 U	5.51	1.523	11.3	0.63	10.9	162.1
Area 1/FDSA	G6M-04-10X	10/12/2017	1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U	3.0 U	0.075 U	75 U	1,200	1.1 U	1.0 U	760	0.46	13	34	1.0 U	1.0 U	5.56	2.020	4.17	1.11	10.3	195.3
Area 1/FDSA	G6M-04-10X	10/17/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.20	1.534	4.23	0.26	11.3	181.2
Area 1/FDSA	G6M-04-10X	10/9/2019	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.3	-	7.21	2.300	2.10	0.30	11.0	93.9
Area 1/FDSA	G6M-04-10X	10/14/2020	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.28	1.910	3.33	0.44	13.2	118.0
Area 1/FDSA	G6M-04-10X	10/13/2021	1.0 U	1.0 U	1.7 J	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.26	2.260	1.40	0.89	12.0	122.0
Area 1/FDSA	G6M-04-10X	10/4/2022	1.0 U	1.0 U	0.36 J	1.0 U	0.5 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.24	1.264	1.28	0.72	11.8	31.9
Area 1/FDSA	G6M-04-10X	10/18/2023	1.0 U	1.0 U	1.0 U	1.0 U	0.29 J	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.34	1.960	0.09	1.49	16.1	-74.5
Area 1/FDSA	G6M-04-10X	11/8/2024	1.0 U	1.0 U	0.57 J	1.0 U	0.32 J	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.69	2.05	10.7	1.24	12.6	47
Area 1/FDSA	G6M-04-13X	9/21/2004	1.0 U	2.0 U	**8.0**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	350	-	-	-	-	-	-	-	-	5.96	0.138	1.75	8.00	16.0	551.8
Area 1/FDSA	G6M-04-13X	9/26/2005	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	-	-	-	-	-	-	-	-	6.43	0.042	3.80	10.5	17.2	180.0
Area 1/FDSA	G6M-04-13X	9/18/2006	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	-	-	-	-	-	-	-	-	5.65	0.076	12.1	8.63	13.3	213.9
Area 1/FDSA	G6M-04-13X	9/12/2007	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	-	-	-	-	-	-	-	-	6.07	0.140	14.1	8.70	13.4	147.4
Area 1/FDSA	G6M-04-13X	10/17/2008	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	8.0 U	0.2 U	200 U	50 U	-	-	-	-	-	-	-	-	5.22	0.046	45.0	9.98	10.6	124.4
Area 1/FDSA	G6M-04-13X	10/20/2009	25 U	25 U	25 U	25 U	**16 J**	25 U	2.0 J	0.132 U	132 U	50 U	-	-	-	-	-	-	-	-	5.78	0.049	12.2	10.6	11.1	283.7
Area 1/FDSA	G6M-04-13X	10/7/2010	0.5 U	0.5 U	0.29 J	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	5.83	0.048	2.87	8.84	10.3	147.3
Area 1/FDSA	G6M-04-13X	10/4/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	14 J	-	-	-	-	-	-	-	-	5.54	0.024	13.5	9.15	11.4	208.7
Area 1/FDSA	G6M-04-13X	10/16/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	5.1 J	-	-	-	-	-	-	-	-	6.28	0.047	17.2	9.95	11.1	108.1
Area 1/FDSA	G6M-04-13X	10/22/2013	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	5.92	0.021	45.6	10.7	10.3	120.9
Area 1/FDSA	G6M-04-13X	11/3/2014	0.5 U	0.5 U	0.36 J	0.5 U	0.5 U	0.5 U	2.5 U	0.024 J	24 J	7.5 U	-	-	-	-	-	-	-	-	6.23	0.029	35.2	6.38	15.2	147.6
Area 1/FDSA	G6M-04-13X	10/14/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	0.1 U	100 U	15 U	-	-	-	-	-	-	-	-	6.85	0.045	1.07	8.83	14.7	114.7
Area 1/FDSA	G6M-04-13X	10/14/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	3.0 U	-	-	-	-	-	-	-	-	6.13	0.027	2.69	8.22	6.8	-8.8
Area 1/FDSA	G6M-04-13X	5/16/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	3.6 J	12	10	21	0.62	9.5	4.8	1.0 U	1.0 U	6.47	0.034	2.36	9.01	9.7	210.7
Area 1/FDSA	G6M-04-13X	10/6/2017	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	3.0 U	1.1 U	1.0 U	0.33 J	0.84	8.7 U	4.6	0.45 J	1.0 U	5.86	0.056	2.60	3.64	10.4	223.4
Area 1/FDSA	G6M-04-13X	10/19/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.02	0.162	3.31	10.4	10.4	77.8
Area 1/FDSA	G6M-04-13X	10/9/2019	1.0 U	2.4	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.41	0.100	3.10	1.6	10.0	14.3
Area 1/FDSA	G6M-04-13X	10/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.45	0.060	3.32	1.77	12.1	-14.6
Area 1/FDSA	G6M-04-13X	10/13/2021	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.69	0.070	8.48	1.91	12.0	-75.5
Area 1/FDSA	G6M-04-13X	10/4/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.16	0.074	2.33	0.75	11.8	-107.2
Area 1/FDSA	G6M-04-13X	10/18/2023	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.78	0.110	3.31	0.51	13.8	-58.7
Area 1/FDSA	G6M-04-13X	11/12/2024	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.7	0.08	3.22	2.06	9	-67.2
Area 1/FDSA	G6M-07-02X	12/12/2007	1.0 U	2.0 U	**50**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	64	0.024 J	0.022 J	0.73	-	-	16	5.0 U	1.0 U	5.90	0.148	5.40	7.54	9.8	194.2
Area 1/FDSA	G6M-07-02X	3/11/2008	1.0 U	2.0 U	**1,800**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	35	0.014 J	0.019 J	7.1	-	-	26	5.0 U	1.0 U	5.70	0.108	< 0.01	7.50	11.0	165.5
Area 1/FDSA	G6M-07-02X	10/15/2008	5.0 U	5.0 U	**170**	5.0 U	5.0 U	5.0 U	5.5 J	0.2 U	200 U	21 J	1.2 U	10	12,000	0.13 U	20 U	11	10 U	0.03 U	5.34	0.067	19.0	9.25	10.7	93.2
Area 1/FDSA	G6M-07-02X	5/11/2009	0.5 U	0.5 U	**46**	0.5 U	0.5 U	0.5 U	7.1	0.2 U	200 U	5.8 J	1.2 U	1.5 U	7.0	0.062	20 U	8.6 J	5.7 J	0.03 U	6.17	0.055	4.00	9.40	11.3	115.7
Area 1/FDSA	G6M-07-02X	10/20/2009	0.5 U	0.5 U	**30 J**	0.5 U	0.5 U	0.5 U	6.6	0.2 U	200 U	50 U	1.3 U	1.6 U	6.2 J	0.13 U	20 U	7.2	10 U	0.03 U	6.00	0.053	9.35	9.34	14.5	128.9
Area 1/FDSA	G6M-07-02X	4/21/2010	2.0 U	2.0 U	**63**	2.0 U	2.0 U	2.0 U	6.2	0.176 U	176 U	25 U	1.2 U	1.5 U	3,200	0.0098 J	30	6.8	10 U	0.03 U	6.10	0.034	12.0	0.33	16.3	139.3
Area 1/FDSA	G6M-07-02X	10/6/2010	0.5 U	0.5 U	**26 J**	0.5 U	0.5 U	0.5 U	3.4 J	0.1 U	100 U	25 U	1.2 U	1.5 U	28	0.21	32	5.6	10 U	0.03 U	5.31	0.053	5.48	6.13	13.0	170.0
Area 1/FDSA	G6M-07-02X	10/4/2011	0.5 U	0.5 U	**700**	0.5 U	0.5 U	0.5 U	4.6 J	0.1 U	100 U	80	1.2 U	1.5 U	46,000	0.13 U	31	4.4 J	10 U	0.03 U	5.17	0.045	8.20	0.09	10.9	176.5
Area 1/FDSA	G6M-07-02X	10/11/2012	5.0 U	6.4	**90**	5.0 U	**190**	5.0 U	5.0 U	0.29	286	40	1.2 U	1.5 U	46,000 J	0.056 J	20 U	6.4	10 U	0.03 U	6.28	0.068	11.3	1.60	19.8	76.1
Area 1/FDSA	G6M-07-02X	10/17/2013	20 U	20 U	**1,000**	20 U	**8.7 J**	20 U	5.0 U	0.1 U	100 U	32	1.2 U	1.5 U	520 J	0.13 U	21	4.5 J	10 U	0.03 U	6.03	0.060	1.17	4.25	20.2	143.0
Area 1/FDSA	G6M-07-02X	11/3/2014	50 U	31 J	**14,000**	50 U	**40 J**	50 U	2.2 J	0.421 J	421 J	43	1.2 U	1.5 U	6,200	0.13 U	22	4.2 J	5.0 U	0.03 U	5.85	0.040	12.1	0.23	9.2	70.2
Area 1/FDSA	G6M-07-02X	12/11/2014	50 U	50 U	**6,200**	50 U	**57**	50 U	-	-	-	-	-	-	-	-	-	-	-	-	5.39	0.098	0.85	0.51	7.4	218.1
Area 1/FDSA	G6M-07-02X	10/13/2015	1.0 U	1.0 U	**482**	3.1 J	**13**	1.0 U	4.0 U	0.30	303	33	10 U	10 U	3,200 J	0.11 U	10	10	1.0 U	2.0 U	5.86	0.055	5.95	0.27	15.6	59.3
Area 1/FDSA	G6M-07-02X	6/14/2016	20 U	20 U	**1,400**	20 U	**10 J**	20 U	3.0 U	0.11	110	37	1.1 U	1.0 U	970	0.05 U	12	6.6	1.2	1.0 U	5.56	0.060	0.92	1.86	10.3	94.3
Area 1/FDSA	G6M-07-02X	11/9/2016	20 U	20 U	**3,200**	20 U	20 U	20 U	3.0 U	0.10	100	41	1.1 U	1.0 U	100	0.062 J	15	6.0	0.93 J	1.0 U	5.91	0.042	2.63	1.18	8.2	39.5
Area 1/FDSA	G6M-07-02X	5/16/2017	20 U	20 U	**1,800**	20 U	20 U	20 U	3.0 U	0.05 U	50 U	17	1.1 U	1.0 U	1.8	0.32	14	6.2	1.0 U	1.0 U	5.70	0.042	2.73	3.69	9.7	213.3
Area 1/FDSA	G6M-07-02X	10/10/2017	20 U	20 U	**910 J**	20 U	20 U	20 U	**37 J**	**220 J**	**220,000 J**	**14,000 J**	24 J	4.3 J	1,200	2.0	520	20	3,400	1.0 U	6.21	2.080	> 5,000	0.51	11.1	-161.2
Area 1/FDSA	G6M-07-02X	4/4/2018	5.0 U	33	**350**	5.0 U	5.0 U	5.0 U	**89**	**85**	**85,000**	**2,800**	10	17	25,000	0.13	150	10	580	1.0 U	5.91	0.652	1,700	0.81	9.0	-69.7
Area 1/FDSA	G6M-07-02X	10/17/2018	5.0 U	**110**	**370**	5.0 U	4.1 J	**3.3 J**	**69**	**370**	**370,000**	**6,100**	14	43	25,000	0.43 J	400	6.6 J	1,300	1.0 U	5.48	1.315	> 5,000	0.15	10.7	44.9
Area 1/FDSA	G6M-07-02X	4/5/2019	1.0 U	**110**	**71 J**	1.0 U	1.8	**3.4**	**40**	**210**	**210,000**	**5,600**	7.6	11	16,000	0.27	-	1.0 U	350	1.0 U	6.10	0.850	35.0	0.37	8.4	82.0
Area 1/FDSA	G6M-07-02X	10/9/2019	5.0 U	**140**	**5.3**	5.0 U	5.0 U	**4.6 J**	**48**	**210**	**210,000**	**5,500**	5.0	6.2	13,000	0.39	210	1.0 U	260	0.83 U	7.34	0.730	12.0	0.21	11.0	-55.3
Area 1/FDSA	G6M-07-02X	05/12/2020	1.0 U	**110**	2.4	1.0 U	0.72 J	**3.6**	**43**	**250**	**250,000**	**4,900**	3.6	4.4	14,000	0.13 U	250	5.0 U	290	1.9	6.58	0.620	27.8	0.32	9.8	7.0
Area 1/FDSA	G6M-07-02X	10/14/2020	1.0 U	40	1.1	1.0 U	1.0 U	1.7	**42**	**220**	**220,000**	**4,500**	1.3	2.0	6,600	0.17	190	5.0 U	230	0.81 U	6.63	0.526	20.9	0.51	12.0	-111.0
Area 1/FDSA	G6M-07-02X	5/12/2021	1.0 U	14	2.0 U	1.0 U	1.0 U	**2.6**	6.2	**240**	**240,000**	**4,500**	4.6	5.7	20,000	0.12	230	1.0 U	260	4.0 U	6.50	0.737	23.4	1.46	19.4	-166.9
Area 1/FDSA	G6M-07-02X	10/12/2021	1.0 U	9.8	2.0 U	1.0 U	1.0 U	1.5	**25**	**170**	**170,000**	**4,300**	3.4	3.2	15,000	0.074 J	130	1.0 U	190	0.81 U	6.96	0.459	62.4	0.64	13.3	-169.9
Area 1/FDSA	G6M-07-02X	5/2/2022	1.0 U	2.3	1.0 U	1.0 U	1.0 U	0.83 J	**47**	**120**	**120,000**	**3,000**	3.6	3.8	16,000 J	0.15	110	1.0 U	160	1.5 U	6.48	0.433	5.75	0.88	10.2	-113.0
Area 1/FDSA	G6M-07-02X	10/5/2022	1.0 U	2.1 J	1.0 U	1.0 U	0.5 U	0.64 J	**35**	**120**	**120,000**	**3,400**	1.9	2.2	14,000	0.025 U	120	1.0 U	160	1.7 U	6.17	0.442	2.45	0.68	10.9	-78.4
Area 1/FDSA	G6M-07-02X	6/6/2023	1.0 U	0.94 J	1.0 U	1.0 U	0.5 U	1.0 U	7.3	**100**	**100,000**	**3,300**	6.7	7.6	16,000	0.064 J	95	1.0 U	100	1.5 U	6.47	0.430	21.30	0.69	13.9	-115.0
Area 1/FDSA	G6M-07-02X	10/18/2023	1.0 U	1.1 J	1.0 U	1.0 U	0.5 U	1.0 U	**25**	**93**	**93,000**	**2,800**	1.7	1.7	14,000	0.025 U	81	1.0 U	95	1.6 U	6.87	0.280	2.56	0.45	12.2	-90.2
Area 1/FDSA	G6M-07-02X	4/22/2024	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**28**	**74**	**74,000**	**2,500**	1.3	2.5	13,000	0.069 J	64	1.0 U	67	1.8 UJ	6.65	0.2	14.2	0.59	9.6	-49.4
Area 1/FDSA	G6M-07-02X	11/12/2024	1.0 U	0.47 J	1.0 U	1.0 U	0.5 U	1.0 U	**60**	**78**	**78,000**	**2,400**	1.9	0.71 U	12,000	0.030 J	62	1.0 U	50	1.7 U	6.57	0.22	6.58	1.08	10.5	-107
Area 2	G6M-02-01X	2/28/2002	1.0 U	2.0 U	**11**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.91	0.624	14.0	4.70	13.5	66.6

Appendix D
Historical Groundwater Analytical Results
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 2	G6M-02-01X	9/23/2004	1.0 U	2.0 U	**24**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.64	0.784	6.11	2.54	19.4	145.0
Area 2	G6M-02-01X	9/30/2005	1.0 U	3.1	**110**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.07	0.555	10.9	3.82	18.0	384.8
Area 2	G6M-02-01X	9/20/2006	1.0 U	**91**	**1,300**	2.0 U	**12**	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.19	0.708	9.07	3.68	17.3	-108.2
Area 2	G6M-02-01X	3/30/2007	1.0 U	**120**	**1,700**	2.0 U	**19**	2.0 U	5.0 U	0.1 U	100 U	120 J	0.012 J	0.081	-	-	-	9.4	3.3 J	1.0 U	6.64	0.800	0.78	4.22	14.1	-35.3
Area 2	G6M-02-01X	6/14/2007	1.0 U	**97**	**1,700**	2.0 U	**16**	2.0 U	-	-	-	-	-	-	-	-	-	-	1.9 J	-	6.72	0.853	10.4	3.30	14.8	69.6
Area 2	G6M-02-01X	9/14/2007	1.0 U	**150**	**1,900**	2.0 U	**24**	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.57	0.747	0.10	3.32	14.4	102.4
Area 2	G6M-02-01X	12/13/2007	1.0 U	**130 J**	**1,600**	2.0 U	**21 J**	2.0 U	-	-	-	-	-	-	-	-	-	-	3.6 J	-	6.61	0.807	< 0.01	2.73	12.6	128.0
Area 2	G6M-02-01X	3/14/2008	2.2	**600**	**520**	2.0 U	**70**	2.0 U	**150**	**26**	**26,000**	**23,000**	0.052	0.16	12	-	-	5.0 U	180	1.0 U	6.45	1.620	2.70	0.38	13.4	-99.2
Area 2	G6M-02-01X	10/7/2008	10 U	**360**	**180**	10 U	**49**	10 U	**141**	**15**	**14,500**	**5,880**	6.3 U	9.5	5,000	0.13 U	200	11	18	0.03 U	6.97	1.193	8.40	0.18	12.1	-112.9
Area 2	G6M-02-01X	1/21/2009	1.2 J	**170**	**280**	1.3 U	76 U	94 U	**148**	**11.2 J**	**11,200 J**	**4,500**	1.3 U	24	4,000	0.13 U	170	7.0 U	11 J	0.03 U	7.13	1.279	1.20	0.39	11.1	-142.7
Area 2	G6M-02-01X	5/6/2009	10 U	**100**	**610**	10 U	**190**	**54**	**133**	**19**	**18,700**	**3,950**	1.2 U	29	29,000	0.059 J	220 J	8.4	13	0.03 U	6.69	1.085	1.15	0.20	11.4	-127.7
Area 2	G6M-02-01X	10/20/2009	40 U	**76**	**820**	40 U	**180**	**47**	**108**	**12**	**11,800**	**2,470**	1.3 U	9.0	5,000 J	0.074 J	130	7.6	4.6 J	0.03 U	6.66	0.925	3.52	1.24	11.5	32.9
Area 2	G6M-02-01X	4/21/2010	2.0 U	0.47 J	**37 J**	2.0 U	**53 J**	**69 J**	**164**	**20.5 J**	**20,500 J**	**4,480**	1.3 U	43	12,000 J	0.024 J	280 J	4.0 J	40	0.03 U	6.70	1.180	1.60	0.42	11.6	-122.0
Area 2	G6M-02-01X	10/6/2010	1.4	**72**	**470**	1.4	**120**	**84**	**133**	**14**	**13,700**	**3,050**	1.2 U	49	25,000	0.13 U	120	5.2	10 U	0.03 U	6.39	1.039	3.65	0.28	12.5	-77.8
Area 2	G6M-02-01X	6/9/2011	0.5 U	11	0.5 U	0.69	4.3	**12**	**173**	**46**	**45,900**	**7,380**	1.2 U	230	71,000	0.11 J	400	3.3 J	90	0.03 U	6.42	1.423	< 0.01	0.30	14.6	-86.3
Area 2	G6M-02-01X	10/5/2011	0.5 U	3.6	0.5 U	0.5 U	0.88	**7.3**	**271**	**27**	**27,300**	**5,470**	1.2 U	290	72,000 J	0.13 U	190	1.4 J	18	0.03 U	6.60	0.681	0.87	0.02	12.5	-106.0
Area 2	G6M-02-01X	5/9/2012	8.0 U	65	**250**	8.0U	**310**	**63**	**271**	**11**	**10,800**	**2,050**	1.1 U	260	41,000	0.13 U	86	6.8	2.3 J	0.081	6.66	0.798	1.60	0.07	12.4	-79.2
Area 2	G6M-02-01X	10/10/2012	10 U	**75**	**350**	10 U	**120**	**160**	**220**	**10**	**10,400**	**2,080**	1.2 U	250	37,000 J	0.13 U	120 J	6.5	10 U	0.36 J	6.64	0.906	3.71	0.50	13.2	-80.5
Area 2	G6M-02-01X	5/21/2013	0.5 U	8.4	0.25 J	0.67	4.7	**5.2**	**272**	**36**	**35,600**	**7,450**	1.2 U	220	22,000	0.13 U	240 J	3.0 J	43	0.076 J	6.57	1.439	0.71	0.14	14.2	-91.7
Area 2	G6M-02-01X	10/17/2013	0.5 U	11	0.5 U	0.58	2.4	**14**	**323**	**40**	**40,300**	**4,000**	1.2 U	450 J	52,000	0.13 U	140	5.0 U	2.6 J	0.078	6.66	0.753	2.24	0.22	13.1	-117.5
Area 2	G6M-02-01X	6/11/2014	0.5 U	1.4	0.5 U	0.5 U	0.5 U	**2.6**	**449**	**84 J**	**84,000 J**	**4,260**	1.3 U	16 J	5,300 J	0.13 U	210 J	1.2 U	9.5 J	0.03 U	6.73	1.174	4.68	0.25	13.1	-103.1
Area 2	G6M-02-01X	10/30/2014	0.5 U	1.5	0.5 U	0.5 U	0.21 J	0.87	**384**	**48**	**47,900**	**1,820**	15	40	24,000	0.13 U	86	2.3 J	5.0 U	0.03 U	6.57	0.959	1.81	0.23	12.7	-130.8
Area 2	G6M-02-01X	6/17/2015	0.5 U	0.53 J	0.5 U	0.5 U	0.5 U	0.5 U	**418**	**62**	**61,900**	**1,760**	5.0 U	6.0 J	712	0.11 U	67	0.5 U	6.2	1.0 U	6.80	0.671	8.45	0.25	13.7	-91.1
Area 2	G6M-02-01X	9/10/2015	1.0 U	1.0 U	1.0 U	1.0 U	0.50 J	1.0 U	**374**	**61**	**60,900**	**1,750**	10 U	5.3 J	8,550	0.061 J	-	0.96 J	2.1	2.0 U	6.77	0.807	0.81	0.24	16.0	-110.5
Area 2	G6M-02-01X	10/16/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**360**	**56**	**56,200**	**1,750**	10 U	10 U	14,200	0.11 U	55	1.1 J	2.1	2.0 U	6.86	1.109	2.79	0.11	16.1	-128.2
Area 2	G6M-02-01X	2/18/2016	1.0 U	0.89 J	1.0 U	1.0 U	1.0 U	0.53 J	**347**	**53**	**52,500**	**2,420**	10 U	10 U	12,500	0.10 U	155	1.5 J	6.8	2.0 U	7.01	1.659	3.95	0.80	10.3	31.9
Area 2	G6M-02-01X	6/13/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**450**	**100**	**100,000**	**2,700**	1.1 U	1.0 U	22,000	0.021 J	150	0.8 U	7.7	1.0 U	6.87	1.691	5.91	0.21	17.2	-145.7
Area 2	G6M-02-01X	11/9/2016	1.0 U	0.69 J	1.0 U	1.0 U	1.0 U	1.0 U	**430**	**62**	**62,000**	**2,100**	1.1 U	1.0 U	18,000	0.05 U	140	1.0 U	3.1	1.8	6.92	1.743	4.67	0.23	13.1	-13.0
Area 2	G6M-02-01X	5/19/2017	1.0 U	0.52 J	1.0 U	1.0 U	1.0 U	1.0 U	**500**	**110**	**110,000**	**2,600**	1.1 U	1.0 U	24,000	0.09 J	220	0.51 J	4.9	1.0 U	6.85	1.590	7.23	0.42	14.4	-132.4
Area 2	G6M-02-01X	10/13/2017	1.0 U	0.77 J	1.0 U	1.0 U	0.52 J	**400**	**76**	**76,000**	1,300	1.1 U	3.8	12,000	0.10	64	0.57 J	3.3	1.0 U	6.66	0.958	7.14	0.46	12.1	-107.4
Area 2	G6M-02-01X	10/29/2018	1.0 U	1.3	1.0 U	1.0 U	0.73 J	1.0 U	**51**	3.1	3,100	**2,700**	-	-	-	-	-	-	-	-	7.48	3.070	18.2	0.17	12.8	-115.8
Area 2	G6M-02-01X	10/16/2019	1.0 U	2.0	1.0 U	1.0 U	4.1	0.63 J	**100**	**5.3**	**5,300**	**2,700**	-	-	-	-	-	-	-	-	6.60	2.700	16.0	0.13	12.0	-120.0
Area 2	G6M-02-01X	10/20/2020	1.0 U	4.5	**5.3**	1.0 U	**25**	**2.8**	**270**	**27**	**27,000**	**2,000**	-	-	-	-	-	-	-	-	6.95	1.450	17.8	0.20	13.7	-103.0
Area 2	G6M-02-01X	5/12/2021	1.0 U	1.2	2.0 U	1.0 U	2.2	1.0 U	**230**	**16**	**16,000**	**2,200**	0.76 U	11	24,000	0.05 U	140	13	2.0	0.81 U	6.94	1.968	109.0	0.55	13.8	-126.0
Area 2	G6M-02-01X	10/13/2021	1.0 U	1.4	2.0 U	1.0 U	2.4	0.72 J	**310**	**22**	**22,000**	**1,900**	-	-	-	-	-	-	-	-	6.87	3.780	39.9	0.51	15.4	-127.0
Area 2	G6M-02-01X	10/7/2022	1.0 U	3.7	**7.7**	1.0 U	**23**	**2.4**	**140**	**18**	**18,000**	**1,600**	1.1	18	29,000	0.025 U	110	8.3	2.4	1.7 U	7.05	1.498	1.67	0.63	15.9	-142.4
Area 2	G6M-02-01X	10/19/2023	1.0 U	2.0	1.0 U	1.0 U	**6.3**	1.4	**250**	**19**	**19,000**	**1,900**	0.4 J	9.0	19,000	0.025 U	130	8.0	2.9	1.8 U	6.80	2.660	16.20	0.80	15.3	-160.0
Area 2	G6M-02-01X	11/8/2024	1.0 U	31	**38**	1.7 J	**24**	**42**	**260**	**32**	**32,000**	**1,500**	2.7	27	22,000	0.025 U	160	7.5	3.6	1.6 UJ	6.63	1.31	15.3	0.910	14.5	-106
Area 2	G6M-04-01X	9/23/2004	1.0 U	21	**250**	2.0 U	3.6	2.0 U	5.0 U	1.0 U	1,000 U	220	-	-	-	-	-	-	-	-	6.82	2.391	9.42	3.92	15.4	245.2
Area 2	G6M-04-01X	9/28/2005	1.0 U	9.2	**140**	2.0 U	2.0 U	2.0 U	5.1	1.0 U	1,000 U	170	-	-	-	-	-	-	-	-	6.49	2.699	7.29	5.85	13.2	202.3
Area 2	G6M-04-01X	9/20/2006	1.0 U	7.2	**150**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	220	-	-	-	-	-	-	-	-	5.87	2.920	3.53	4.88	11.9	-91.4
Area 2	G6M-04-01X	12/13/2006	1.0 U	**75**	**200**	2.0 U	**11**	2.0 U	**160**	**83**	**83,000**	**20,000**	0.004 J	0.038	1,700	-	-	50	440	2.8	6.07	3.107	5.21	1.43	13.6	-72.8
Area 2	G6M-04-01X	9/14/2007	1.0 U	8.6	**290**	2.0 U	2.0 U	2.0 U	6.0 U	0.1 U	100 U	130	-	-	-	-	-	-	-	-	6.00	2.055	35.8	5.21	12.2	155.3
Area 2	G6M-04-01X	10/20/2008	10 U	10 U	**270 J**	10 U	**11 J**	10 U	8.0 U	0.2 U	200 U	53.1 J	-	-	-	-	-	-	-	-	7.32	0.999	3.50	3.37	17.3	96.2
Area 2	G6M-04-01X	10/20/2009	13 U	**360**	**190**	13 U	**130**	**15**	8.0 U	0.1 U	100 U	113	-	-	-	-	-	-	-	-	5.79	0.908	4.80	2.25	13.4	342.4
Area 2	G6M-04-01X	10/7/2010	0.29 J	**120**	**27**	0.68	**19**	**140**	5.0 U	1.1	1,050	164	-	-	-	-	-	-	-	-	6.14	1.312	1.55	0.29	11.5	124.3
Area 2	G6M-04-01X	10/5/2011	0.5 U	36	**14**	0.71	**7.6**	**160**	3.7 J	0.38	381	261	-	-	-	-	-	-	-	-	6.27	1.132	3.30	0.48	12.7	69.9
Area 2	G6M-04-01X	10/12/2012	4.0 U	18	**5.5**	4.0 U	4.0 U	**130**	3.5 J	0.74	742	925	-	-	-	-	-	-	-	-	6.36	1.700	1.85	0.38	12.4	19.1
Area 2	G6M-04-01X	10/17/2013	0.5 U	0.99	0.5 U	0.29 J	0.78	**14**	6.0	1.1	1,060	**8,890**	-	-	-	-	-	-	-	-	6.46	2.509	2.49	0.40	14.5	17.4
Area 2	G6M-04-01X	10/31/2014	0.5 U	0.56	0.39 J	0.37 J	0.52	**7.9**	**164**	**59**	**59,400**	**28,900**	-	-	-	-	-	-	-	-	6.69	1.850	19.6	0.48	13.3	-95.3
Area 2	G6M-04-01X	9/10/2015	1.0 U	0.93 J	1.0 U	1.0 U	1.0 U	0.75 J	**162**	**32**	**31,700**	**9,040**	10 U	10 U	6,240	0.12	-	3.6 J	19	2.0 U	7.15	1.880	41.6	0.45	15.9	-152.7
Area 2	G6M-04-01X	10/14/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**382**	**96**	**96,400**	**24,400**	-	-	-	-	-	-	-	-	6.78	2.878	4.83	0.10	12.5	-133.0
Area 2	G6M-04-01X	2/18/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**76**	**16**	**16,400**	**7460**	10 U	10 U	7,060	0.10 U	411	14	12	2.0 U	6.68	1.624	6.39	1.67	9.5	182.6
Area 2	G6M-04-01X	6/13/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**380**	**80**	**80,000**	**19,000**	-	-	-	-	-	-	-	-	6.69	3.639	17.6	0.65	17.7	-120.3
Area 2	G6M-04-01X	11/9/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**320**	**95**	**95,000**	**19,000**	-	-	-	-	-	-	-	-	6.76	2.631	4.60	0.42	11.4	-82.0
Area 2	G6M-04-01X	10/13/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**450**	**81**	**81,000**	**18,000**	-	-	-	-	-	-	-	-	6.66	3.540	11.5	0.87	13.5	-99.2
Area 2	G6M-04-01X	10/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**470**	**68**	**68,000**	**19,000**	-	-	-	-	-	-	-	-	6.48	5.152	3.01	0.55	11.7	-73.1
Area 2	G6M-04-01X	10/16/2019	1.0 U	0.41 J	1.0 U	1.0 U	0.48 J	1.0 U	**540**	**52**	**52,000**	**13,000**	-	-	-	-	-	-	-	-	6.20	4.400	3.70	0.18	13.0	-67.0
Area 2	G6M-04-01X	10/19/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**580**	**45**	**45,000**	**13,000**	-	-	-	-	-	-	-	-	6.56	2.840	34.7	0.29	12.9	-73.4
Area 2	G6M-04-01X	10/13/2021	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	**680**	**42**	**42,000**	**11,000**	-	-	-	-	-	-	-	-	6.45	5.250	7.57	0.68	15.6	-79.2
Area 2	G6M-04-01X	10/7/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**650**	0.05 U	50 U	3.4 J	-	-	-	-	-	-	-	-	6.62	2.451	2.49	0.69	16.7	-80.4
Area 2	G6M-04-01X	10/20/2023	1.0 U	0.4 J	1.0 U	1.0 U	0.47 J	1.0 U	**600**	0.05 U	**33,000**	**8,100**	-	-	-	-	-	-	-	-	6.33	3.570	15.20	1.07	13.8	-78.8
Area 2	G6M-04-01X	11/8/2024	1.0 U	0.41 J	1.0 U	1.0 U	0.38 J	1.0 U	**800**	**46**	**46,000**	**6,600**	-	-	-	-	-	-	-	-	6.75	2.25	16.1	0.86	14	-123
Area 2	G6M-04-03X	9/23/2004	1.0 U	3.3	**440**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	**3,100**	0.22	0.036	100	5.1	53	23	1.4	2.2	6.37	1.236	12.2	3.41	12.9	446.5
Area 2	G6M-04-03X	9/27/2005	1.0 U	10	**680**	1.0 U	**14**	1.0 U	5.0 U	0.6 J	600 J	**3,500**	0.19	0.32	52	0.35	82	38 J	6.0	1.0 U	6.29	1.361	9.62	0.79	12.9	377.5
Area 2	G6M-04-03X	9/22/2006	1.0 U	6.3	**2,600**	2.0 U	**420**	2.0 U	5.0 U	0.1 U	100 U	**2,900**	0.049	0.30	17	0.2 U	190	17	7.2	1.0 U	6.30	0.524	3.52	0.43	15.1	152.1
Area 2	G6M-04-03X	12/14/2006	1.0 U	**120**	**1,600**	2.0 U	**18**	2.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U	-	6.54	0.831	2.81	3.64	14.3	-34.8
Area 2	G6M-04-03X	9/14/2007	1.0 U	2.7	**770**	2.0 U	**68**	2.0 U	**38**	0.87	870	**2,300**	0.062	0.11	3.0	0.2 U	100	24	1.6 J	1.0 U	7.29	0.294	3.60	0.49	14.2	-110.3
Area 2	G6M-04-03X	10/16/2008	5.0 U	7.6	**160**	5.0 U	**18**	5.0 U	**95**	0.2 U	200 U	930	1.3 U	1.6 U	6.2 J	0.10 U	150 J	8.0	10 U	0.03 U	10.48	0.539	5.80	2.01	14.0	18.0
Area 2	G6M-04-03X	10/15/2009	0.5 U	8.6	**16**	0.5 U	**8.4**	0.5 U	**148**	2.0	2,020	**3,270**	1.3 U	1.6 U	2,000	0.13 U	240	7.0 U	10 U	0.03 U	8.80	0.227	5.00	1.49	13.3	-46.9
Area 2	G6M-04-03X	10/7/2010	0.25 J	**94**	**300**	0.62	**52**	**29**	**133**	**5.5**	**5,470**	**3,910**	1.2 U	3.5	29,000	0.13 U	120	4.8 J	10 U	0.03 U	6.67	0.345	9.09	2.47	14.8	-35.2

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 2	G6M-04-03X	10/5/2011	0.5 U	7.5	**7.3**	0.5 U	1.8	**4.6**	**73**	0.19 U	190 U	559	1.2 U	1.5 U	29,000	0.13 U	130	6.0	3.1 J	0.03 U	10.63	0.307	< 0.01	0.49	12.7	6.3
Area 2	G6M-04-03X	10/10/2012	0.5 U	6.3	**8.7**	0.5 U	1.9	**16**	**66**	0.26	261	1,320	1.2 U	170	38,000	0.096 J	160	8.0	10 U	0.03 U	10.65	0.556	6.84	1.09	13.8	-18.4
Area 2	G6M-04-03X	10/17/2013	4.0 U	**200**	**190**	4.0 U	**87**	**86**	**32**	**33**	**32,700**	**8,450**	1.2 U	270	51,000	0.13 U	67	8.6	2.5 J	0.03 U	6.55	0.583	28.0	0.69	15.4	-77.3
Area 2	G6M-04-03X	10/30/2014	0.5 U	53	**20**	0.38 J	**15**	**19**	**14**	0.29	290	114	1.2 U	17	6,700	0.13 U	420	7.5	4.7 J	0.03 U	10.60	1.152	24.3	1.99	13.5	-70.1
Area 2	G6M-04-03X	9/11/2015	1.0 U	40	**11**	1.0 U	**9.3**	**5.5**	**105**	**23**	**22,900**	**2,720**	10 U	10 U	3,450	0.068 J	-	7.0 J	5.3	2.0 U	7.71	1.079	11.6	0.36	14.6	-194.0
Area 2	G6M-04-03X	10/14/2015	1.0 U	43	5.0	1.0 U	3.2	**6.8**	**232**	**75**	**75,100**	**11,300**	10 U	10 U	8,190	0.13 J	337	7.0 J	8.2	2.0 U	6.79	1.208	9.64	1.03	12.8	-68.4
Area 2	G6M-04-03X	2/18/2016	1.0 U	25	0.60 J	1.0 U	0.59 J	**7.3**	**673**	**97**	**97,000**	**15,200**	10 U	10 U	12,500	0.10 U	456	1.2 J	8.1	2.0 U	8.56	0.799	11.2	0.99	6.7	212.9
Area 2	G6M-04-03X	11/10/2016	1.0 U	5.8	1.0 U	1.0 U	0.65 J	**4.1**	**380**	**110**	**110,000**	**31,000**	1.1 U	25 J	20,000	0.05 U	390	2.2	9.8	1.0 U	6.47	1.018	6.66	0.43	11.5	-74.1
Area 2	G6M-04-03X	10/20/2017	1.0 U	2.2	1.0 U	1.0 U	1.0 U	1.6	**260**	**85**	**85,000**	**20,000**	1.1 U	1.0 U	9,100	0.06 J	160	19	5.1	1.0 U	6.45	2.750	5.87	0.38	12.7	-55.0
Area 2	G6M-04-03X	10/30/2018	1.0 U	0.44 J	1.0 U	1.0 U	0.93 J	1.0 U	**310**	**74**	**74,000**	**10,000**	-	-	-	-	-	-	-	-	6.78	2.944	6.82	0.57	13.4	-113.0
Area 2	G6M-04-03X	10/16/2019	1.0 U	26	**9.0**	1.0 U	**12**	**5.8**	**220**	**59**	**59,000**	**7,100**	-	-	-	-	-	-	-	-	5.80	1.600	1.80	0.18	14.0	-46.0
Area 2	G6M-04-03X	05/12/2020	1.0 U	10	**6.9**	1.0 U	4.5	**3.5**	**73**	**47**	**47,000**	**5,600**	1.1 U	2.1	11,000	0.10 U	140	13	4.0	0.81 U	5.92	1.600	5.51	1.11	12.8	28.6
Area 2	G6M-04-03X	10/16/2020	1.0 U	0.70 J	1.0 U	1.0 U	0.80 J	1.0 U	**180**	**27**	**27,000**	**3,100**	1.1 U	1.5	22,000	0.082 J	190	6.4	6.0	0.81 U	6.55	0.772	3.43	0.16	13.1	-84.1
Area 2	G6M-04-03X	5/11/2021	1.0 U	4.2	2.0 U	1.0 U	2.3	**3.2**	**190**	**44**	**44,000**	**5,200**	0.73 J	4.2	16,000	0.03 J	160	4.2	6.7 J	0.81 U	6.48	1.077	18.44	0.69	18.6	-87.3
Area 2	G6M-04-03X	10/13/2021	1.0 U	0.58 J	2.0 U	0.72 J	0.60 J	0.71 J	**210**	**36**	**36,000**	**3,600**	1.9	3.5	20,000	0.05 U	200	2.3	7.3	0.81 U	6.87	2.690	32.4	0.70	19.2	-128.0
Area 2	G6M-04-03X	10/12/2022	1.0 U	0.65 J	1.0 U	1.0 U	1.7	1.0 U	**190**	**9.9**	**9,900**	**1,200**	2.0	0.71 U	20,000	0.025 U	240	0.44 J	6.5	1.6 U	7.07	0.638	4.49	0.75	16.0	-130.4
Area 2	G6M-04-03X	10/18/2023	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**410**	**50**	**50,000**	**3,900**	4.6	0.71 U	33,000	0.023 J	140	7.1	5.5	1.8 U	6.59	1.190	600	0.13	14.4	-135.0
Area 2	G6M-04-03X	11/14/2024	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**300**	**15**	**15,000**	**1,100**	4	4.9	13,000	0.028 J	130	1.0 U	5.5	1.7 U	6.96	0.3	21.2	0.95	12.5	-138
Area 2	G6M-07-01X	10/15/2008	0.5 U	0.5 U	**26**	0.5 U	0.24 J	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	7.78	0.591	608	2.22	12.4	53.9
Area 2	G6M-07-01X	10/20/2009	0.5 U	0.5 U	**21**	0.5 U	**15**	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	7.44	0.532	283	4.11	27.3	171.9
Area 2	G6M-07-01X	10/7/2010	0.5 U	0.25J	**50**	0.5 U	0.31 J	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	7.03	0.414	4.78	3.62	10.1	139.0
Area 2	G6M-07-01X	10/5/2011	0.5 U	0.5 U	**11**	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	11 J	-	-	-	-	-	-	-	-	7.06	0.285	130	4.43	12.0	72.9
Area 2	G6M-07-01X	10/12/2012	0.5 U	0.5 U	**19**	0.5 U	0.5 U	0.5 U	5.0 U	0.088 J	88 J	11 J	-	-	-	-	-	-	-	-	6.92	0.437	30.2	3.56	11.9	59.0
Area 2	G6M-07-01X	10/17/2013	0.5 U	0.5 U	**15**	0.5 U	0.37 J	0.5 U	5.0 U	0.1 U	100 U	5.4 J	-	-	-	-	-	-	-	-	6.86	0.450	16.4	4.34	12.7	95.1
Area 2	G6M-07-01X	4/5/2019	1.0 U	1.0 U	**35**	1.0 U	1.2	1.0 U	3.5	0.21	210	95	1.1 U	1.0 U	36	1.1	-	6.6	0.61 J	1.0 U	6.90	0.880	6.90	1.40	12.0	32.0
Area 2	G6M-07-01X	05/13/2020	1.0 U	1.0 U	**27**	1.0 U	0.97 J	1.0 U	3.0 U	0.093 U	93 U	19	1.1 U	1.0 U	1.4	1.2	35	7.6	0.47 J	0.83 U	6.12	0.972	3.81	2.30	13.8	101.0
Area 2	G6M-07-01X	10/19/2020	1.0 U	1.0 U	**32**	1.0 U	0.71 J	1.0 U	2.1 J	0.12	120	30	1.1 U	1.0 U	34	1.5	31	3.6	3.3	0.81 U	6.23	0.547	6.92	2.79	13.1	107.0
Area 2	G6M-07-01X	5/12/2021	1.0 U	8.6	**10**	1.0 U	2.1	1.0 U	1.6 J	0.18	180	61	0.76 U	0.71 U	17	0.84	39	14	3.2	0.81 U	6.50	0.991	50.07	1.40	16.9	64.0
Area 2	G6M-07-01X	11/3/2021	1.0 U	0.71 J	**13**	1.0 U	1.8	1.0 U	1.6 J	0.17	170	42	0.76 U	0.71 U	13 J	1.0	6.4 U	12	5.3	0.81 U	6.44	1.440	17.40	1.52	8.7	81.1
Area 2	G6M-07-01X	10/20/2023	1.0 U	1.0 U	**11**	1.0 U	0.67 J	1.0 U	1.6 J	0.023 J	23 J	34	0.76 U	0.71 U	41	1.0	49	14	0.77 J	1.7 U	6.11	1.150	13.20	1.26	13.6	125.0
Area 2	G6M-07-01X	11/8/2024	1.0 U	2.1	**30**	1.0 U	2.9	1.0 U	1.4 J	0.053 J	53 J	35	0.58 J	3.3	3,900	0.7	35	8.8	3	1.6 UJ	6.19	0.41	23.4	0.99	12.8	88.1
Area 2	G6M-97-08B	10/18/2001	1.0 U	36	**92**	1.6 J	**6.1**	2.0 U	-	-	-	-	-	-	-	-	-	1.0	-	-	5.60	0.130	18.0	4.80	14.2	224.0
Area 2	G6M-97-08B	2/26/2002	1.0 U	32	**100**	2.0 U	**5.9**	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.87	1.157	5.30	5.13	12.8	186.4
Area 2	G6M-97-08B	9/22/2004	1.0 U	41	**220**	2.0 U	**9.3**	2.0 U	5.0 U	1.0 U	1,000 U	26	0.008	0.005 U	1.3	6.1	10 U	12	1.0 U	1.5 J	5.69	1.516	18.3	4.66	12.9	252.8
Area 2	G6M-97-08B	12/16/2004	1.0 U	41	**200**	2.0 U	**7.7**	2.0 U	5.0 U	1.0 U	1,000 U	25	0.13	0.072	0.92	6.1	10 U	12	5.0 U	5.4	5.79	1.633	3.81	8.78	16.4	165.0
Area 2	G6M-97-08B	3/30/2005	2.0 U	16	**95**	4.0 U	3.4 J	4.0 U	5.0 U	1.0 U	1,000 U	21	0.015	0.032	0.54	0.80	12	7.0	0.4 J	2.0 U	5.58	0.999	9.42	8.06	15.6	202.8
Area 2	G6M-97-08B	6/28/2005	1.0 U	36	**140**	1.4	**8.0**	2.0 U	2.0 U	1.0 J	1,000 J	27	0.016	0.041	35	1.4	17	12	7.1	1.0 U	11.30	1.506	8.16	4.94	13.9	173.7
Area 2	G6M-97-08B	9/27/2005	1.0 U	42	**180**	2.0 U	**7.5**	2.0 U	5.0 U	1.0 U	1,000 U	33	0.013 J	0.027	0.39	1.3	16	16	4.4	1.0 U	5.60	1.713	2.82	5.73	13.5	319.2
Area 2	G6M-97-08B	12/12/2005	1.0 U	27	**120**	2.0 U	**5.7**	2.0 U	5.0 U	1.0 U	1,000 U	28	0.040	0.11	26	0.05 U	23	13	0.6 J	1.0 U	5.87	1.110	0.70	4.19	15.8	171.1
Area 2	G6M-97-08B	3/23/2006	1.0 U	44	**240**	2.0 U	**8.8**	2.0 U	5.0 U	0.1 U	100 U	46	0.022 J	0.13	12	1.3	13	14	5.0 U	1.0 U	5.85	1.440	3.16	5.13	14.2	181.5
Area 2	G6M-97-08B	6/21/2006	1.0 U	35	**220**	2.0 U	**11**	2.0 U	5.0 U	0.17	170	1,300	0.019 J	0.086	24	0.81	66	14	16	1.0	5.90	2.015	1.48	2.39	-	141.1
Area 2	G6M-97-08B	9/19/2006	1.0 U	55	**190**	2.0 U	**14**	2.0 U	**130**	**21**	**21,000**	**13,000**	0.078	0.13	18	0.2 U	300	24	270	2.8	5.79	2.287	4.58	1.58	12.5	47.6
Area 2	G6M-97-08B	12/14/2006	1.3	**310**	**190**	2.0 U	**30**	**160**	**220**	**400**	**400,000**	**38,000**	0.025	5.9	26,000	-	-	2.4	300	2.8	6.37	2.155	6.19	0.17	12.6	-160.0
Area 2	G6M-97-08B	3/30/2007	1.0 U	46	**200**	2.0 U	**8.5**	2.0 U	**130**	**170**	**170,000**	**26,000 J**	0.028	0.19	6,000	-	-	126	620	4.6	5.36	3.626	1.13	0.46	12.5	14.8
Area 2	G6M-97-08B	6/14/2007	1.0 U	37	**140**	2.0 U	**5.5**	2.0 U	**100**	**370**	**370,000**	**24,000**	0.025 U	0.021 J	7,900	-	-	120	760	6.4	5.66	3.659	1.00	1.68	9.9	-45.4
Area 2	G6M-97-08B	9/12/2007	1.0 U	43	**170**	2.0 U	**8.4**	**3.0**	**120**	**370**	**370,000**	**18,000**	0.004 J	0.050	8,400	0.2 U	650	1,500	630	3.2	5.66	3.924	5.50	2.72	11.0	-31.4
Area 2	G6M-97-08B	12/14/2007	1.0 U	31 J	**150 J**	2.0 U	**5.7 J**	**4.5 J**	**150**	**280**	**280,000**	**12,000**	0.006 J	0.054	10,000	-	-	92	520	5.6	5.84	3.673	< 0.01	0.75	11.8	-45.3
Area 2	G6M-97-08B	3/12/2008	1.0 U	32	**150**	2.0 U	**6.5**	**6.8**	**160**	**190**	**190,000**	**8,100**	0.008 J	0.15	9,800	-	-	38	270	2.8	5.94	3.091	< 0.01	2.15	12.4	-66.4
Area 3	G6M-03-07X	5/12/2003	1.0 U	34	**1,200**	2.0 U	**7.2**	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.7	-
Area 3	G6M-03-07X	9/24/2004	1.0 U	31	**1,700**	2.0 U	**6.3**	2.0 U	5.0 U	1.0 U	1,000 U	20	0.035	0.28	5.7	4.3 J	10 U	12	1.0 U	1.6 J	5.77	0.341	84.6	7.00	16.0	168.3
Area 3	G6M-03-07X	12/16/2004	1.0 U	35	**1,500**	2.0 U	**6.0**	2.0 U	5.0 U	1.0 U	1,000 U	190	0.026	0.080	0.39	4.2	10 U	12	5.0 U	2.9	6.02	0.348	8.46	17.1	14.0	321.7
Area 3	G6M-03-07X	3/30/2005	20 U	**140**	**1,100**	40 U	**91**	40 U	**18**	**18**	**18,000**	**10,000**	0.078	0.21	1.8	0.33	76	8.0	29	2.0 U	6.33	0.671	0.70	1.90	14.1	-54.6
Area 3	G6M-03-07X	6/29/2005	20 U	**940**	**940**	40 U	**78**	40 U	**31**	**39 J**	**39,000 J**	**15,000 J**	0.060	0.34	3.9	0.079	118	6.4	83	1.0 U	11.97	0.915	5.93	1.12	8.5	-20.1
Area 3	G6M-03-07X	9/29/2005	2.7	**1,000**	**300**	2.3	**44**	1.0 U	**46**	**210 J**	**210,000 J**	**30,000**	0.068	0.45	660	0.05 U	307	3.2	290	12	6.20	1.266	7.68	2.70	14.7	-62.0
Area 3	G6M-03-07X	12/12/2005	10 U	**710**	**92**	20 U	**22**	20 U	**96**	**190**	**190,000**	**46,600**	0.078	0.13	13,000	0.05 U	320	2.0 U	220	6.2	6.50	1.038	3.60	0.22	14.2	-82.1
Area 3	G6M-03-07X	3/24/2006	2.0	**430**	**110**	2.0 U	**23**	**270**	**130**	**280**	**280,000**	**48,000**	0.010 J	2.0	22,000	0.2 U	590	1.0	260	8.6	6.87	1.390	10.1	0.17	11.4	-130.5
Area 3	G6M-03-07X	6/21/2006	1.0 U	**180**	**9.5**	2.0 U	3.6	**310**	**140**	**460**	**460,000**	**59,000**	0.073	21	21,000	0.2 U	570	1.0 U	280	4.8	5.13	2.258	31.4	0.70	13.0	-170.4
Area 3	G6M-03-07X	3/29/2007	1.0 U	35	2.0 U	2.0 U	2.0 U	**360**	**190**	**420**	**420,000**	**20,000 J**	0.080	5.1	15,000	-	-	1.0 U	130	4.4	6.32	1.787	39.6	2.46	13.4	-69.3
Area 3	G6M-03-07X	6/14/2007	1.0 U	**190**	**37**	2.0 U	**8.1**	**200**	**220**	**490**	**490,000**	**37,000**	0.025 U	2.3	25,000	-	-	11	310	2.4	6.40	2.386	9.70	1.31	13.6	-159.0
Area 3	G6M-03-07X	9/13/2007	1.1	**290**	**27**	2.2	**13**	**140**	**210**	**500**	**500,000**	**29,000**	0.008 J	12	26,000	0.2 U	560	420	72	4.8	6.26	2.743	118	3.08	14.5	-174.9
Area 3	G6M-03-07X	12/14/2007	1.0 U	9.8	2.6	3.0	2.0 U	**120**	**270**	**320**	**320,000**	**12,000**	0.010 J	34	25,000	-	-	10 U	140	4.0	6.51	2.138	70.9	0.99	13.2	-123.7
Area 3	G6M-03-07X	3/14/2008	1.0 U	2.3	2.0 U	2.0 U	2.0 U	**4.3**	**210**	**230**	**230,000**	**11,000**	0.11	26	30,000	-	-	5.0 U	130	4.0	6.41	1.897	236	1.06	14.9	-85.5
Area 3	G6M-03-07X	10/7/2008	5.0 U	5.0 U	5.0 U	21	2.2 J	5.0 U	**246**	**348**	**348,000**	**5,370**	6.3 U	12	14,000	190	190	24	64	0.03 U	6.24	1.742	16.0	0.10	14.1	-44.4
Area 3	G6M-03-07X	1/22/2009	1.7 U	1.7 J	1.4 U	15	2.3 U	**3.6**	**227**	**338 J**	**338,000 J**	**5,000**	1.2 U	10	16,000	0.13 U	20 U	37	110 J	0.03 U	6.60	1.743	30.0	1.20	14.4	-74.9
Area 3	G6M-03-07X	5/6/2009	0.5 U	1.8	0.5 U	20	0.5 U	**2.6**	**351**	**361**	**361,000**	**5,500**	1.2 U	9.9	28,000	0.025 J	720 J	32	66	0.03 U	5.88	1.735	20.3	0.21	14.2	-117.9
Area 3	G6M-03-07X	10/15/2009	0.5 U	2.3	0.27 J	19	0.5 U	**2.2**	**318**	**251**	**251,000**	**4,870**	1.1 U	7.3	16,000	0.13 U	550	30	44	0.03 U	6.25	1.362	5.60	0.88	13.4	-100.4
Area 3	G6M-03-07X	4/21/2010	0.5 U	0.88	0.5 U	5.3	0.5 U	1.3	**339**	**176 J**	**176,000 J**	**2,000**	1.3 U	6.3	27,000	0.13 U	320	0.11 J	46	0.03 U	6.46	1.086	8.90	0.69	16.2	-106.3
Area 3	G6M-03-07X	10/5/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**346**	**164**	**164,000**	**4,650**	1.2 U	14	48,000	0.13 U	35	0.27 J	16	0.03 U	6.35	1.276	4.56	0.11	-	-106.1
Area 3	G6M-03-07X	6/8/2011	0.5 U	1.7	0.5 U	7.8	0.5 U	**2.1**	**381**	**158**	**158,000**	**3,540**	1.2 U	13	72,000	0.13 U	460	5.0 U	41	0.10	6.25	0.841	9.82	0.08	15.3	-87.0
Area 3	G6M-03-07X	10/5/2011	0.5 U	0.86	0.5 U	5.6	0.5 U	1.4	**375**	**133**	**133,000**	**2,500**	1.2 U	1.5 U	48,000	0.13 U	320	5.0 U	39	0.049	6.40	0.764	6.00	0.02	9.7	-42.0

Appendix D
Historical Groundwater Analytical Results
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 3	G6M-03-07X	5/9/2012	0.5 U	1.2	0.5 U	4.4	0.5 U	0.92	**388**	**131**	**131,000**	**3,090**	1.2 U	200	74,000	0.13 U	320	0.35 J	31	0.063	6.52	1.046	2.43	0.14	12.9	-111.7
Area 3	G6M-03-07X	10/11/2012	0.5 U	0.74	0.5 U	3.4	0.5 U	1.5	**365**	**116**	**116,000**	**2,900**	1.2 U	800	97,000	0.027J	270	5.0 U	26	0.040	6.50	0.962	4.81	0.34	15.3	-96.2
Area 3	G6M-03-07X	5/21/2013	0.5 U	1.0	0.5 U	3.4	0.5 U	0.77	**413**	**114**	**114,000**	**2,150**	1.2 U	1.5 U	22,000	0.13 U	180 J	5.0 U	23	0.03 U	6.01	0.923	1.28	0.17	14.8	-64.9
Area 3	G6M-03-07X	10/16/2013	0.5 U	0.86	0.5 U	2.9	0.5 U	1.3	**434**	**120**	**120,000**	**2,340**	1.2 U	33	31,000	0.13 U	340	5.0 U	26	0.065	6.53	0.901	1.01	0.21	9.7	-102.4
Area 3	G6M-03-07X	6/11/2014	0.5 U	0.72	0.40 J	3.0	0.5 U	**2.5**	**422**	**105 J**	**105,000 J**	**1,670**	1.3 U	3.5 J	10,000 J	0.13 U	260 J	0.52 U	45	0.03 U	6.32	0.787	2.54	0.28	11.6	-48.4
Area 3	G6M-03-07X	10/30/2014	0.5 U	0.69	0.5 U	2.8	0.5 U	1.1	**355**	**79**	**78,500**	1,400	1.2 U	1.8	54,000	0.13 U	180	0.38 J	22	0.03 U	6.49	0.532	5.63	0.24	12.9	-120.7
Area 3	G6M-03-07X	6/18/2015	0.5 U	0.62 J	0.5 U	2.1	0.5 U	0.77 J	**97**	**107**	**107,000**	**1,810**	5.0 U	5.7 J	12,400	0.15 U	262	0.5 U	27	1.0 U	6.40	0.626	15.1	0.16	16.2	-94.9
Area 3	G6M-03-07X	9/14/2015	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**436**	**103**	**103,000**	**1,700**	10 U	6.0 J	11,900	0.086 J	-	0.94 J	25	2.0 U	6.45	0.545	5.16	0.56	14.2	-112.8
Area 3	G6M-03-07X	10/14/2015	1.0 U	0.59 J	1.0 U	1.8	1.0 U	0.73 J	**441**	**102**	**102,000**	**1,660**	10 U	6.5 J	16,600	0.085 J	161	2.3 J	243	2.0 U	6.61	0.754	5.37	0.24	12.3	-76.2
Area 3	G6M-03-07X	2/10/2016	1.0 U	1.0 U	1.0 U	1.8	1.0 U	0.78 J	**461**	**97**	**96,700**	1,360	10 U	5.0 J	12,800	0.18	194	10 U	25	2.0 U	6.49	0.704	16.1	0.84	11.2	-68.8
Area 3	G6M-03-07X	6/16/2016	1.0 U	0.73 J	1.0 U	1.5	0.61 J	0.73 J	**440**	**90**	**90,000**	**1,600**	1.1 U	1.0 U	28,000	0.05 U	200	0.8 U	26	1.0 U	6.46	0.759	9.00	0.29	17.0	-71.9
Area 3	G6M-03-07X	11/10/2016	1.0 U	0.44 J	1.0 U	1.4	1.0 U	0.63 J	**420**	**81**	**81,000**	1,400	1.1 U	16	23,000	0.05 U	170	1.0 U	22	1.0 U	5.50	0.480	17.4	0.29	14.9	-86.0
Area 3	G6M-03-07X	5/16/2017	1.0 U	0.51 J	1.0 U	0.76 J	1.0 U	1.0 U	**370**	**84**	**84,000**	**1,600**	1.2	7.2	14,000	0.14	200	1.0 U	19	1.0 U	6.59	0.589	11.0	0.35	17.5	-91.3
Area 3	G6M-03-07X	10/23/2017	1.0 U	0.55 J	1.0 U	0.97 J	1.0 U	0.72 J	**450**	**94**	**94,000**	**1,800**	2.7	14	21,000	0.13	170	1.0 U	24	1.0 U	6.32	0.657	5.78	0.07	13.5	-75.1
Area 3	G6M-03-07X	10/29/2018	1.0 U	0.55 J	1.0 U	0.66 J	1.0 U	0.74 J	**420**	**99**	**99,000**	**2,100**	2.8	19	37,000	0.20	170	5.0 U	18	1.0 U	6.54	0.795	3.12	0.27	13.2	-78.0
Area 3	G6M-03-07X	10/18/2019	1.0 U	0.70 J	1.0 U	1.0 U	1.0 U	0.55 J	**430**	**120**	**120,000**	**3,100**	3.0	17	29,000	0.075 J	170	1.0 U	15	0.86 U	6.30	0.930	3.70	0.12	14.0	-84.0
Area 3	G6M-03-07X	05/13/2020	50 U	50 U	50 U	50 U	**26 J**	50 U	**340**	**95**	**95,000**	**2,100**	6.1	1.0 U	11,000	0.032 J	160	1.0 U	19	0.96 U	6.01	0.498	8.60	0.51	11.9	32.1
Area 3	G6M-03-07X	10/21/2020	1.0 U	0.58 J	1.0 U	1.0 U	1.0 U	1.0 U	**410**	**110**	**110,000**	**2,900**	4.3	12	34,000	0.057 J	150	1.0 U	14	0.89 U	6.07	0.816	5.61	0.42	17.4	-79.4
Area 3	G6M-03-07X	5/12/2021	1.0 U	0.95 J	2.0 U	1.0 U	1.0 U	1.0 U	**480**	**100**	**100,000**	**2,400**	9.4	7.3	34,000	0.05 U	210	1.0 U	18	0.81 U	6.47	0.721	29.36	0.49	14.4	-99.2
Area 3	G6M-03-07X	10/18/2021	1.0 U	0.50 J	2.0 U	1.0 U	1.0 U	1.0 U	**580**	**98**	**98,000**	**2,400**	9.4	0.71 U	37,000	0.026 J	190	1.0 U	19	0.81 U	6.35	0.955	2.34	0.51	15.0	-105.0
Area 3	G6M-03-07X	10/5/2022	1.0 U	0.84 J	1.0 U	1.0 U	0.5 U	1.0 U	**490**	**86**	**86,000**	**2,000**	10	3.4	22,000	0.025 U	200	0.70 J	16	1.7 U	6.70	0.594	16.08	0.67	14.7	-102.3
Area 3	G6M-03-07X	10/19/2023	1.0 U	0.34 J	1.0 U	1.0 U	0.5 U	1.0 U	**570**	**99**	**99,000**	**2,300**	4.0	0.71 U	25,000	0.025 U	150	1.0 U	19	1.7 U	6.18	0.770	143.00	0.20	15.0	-87.0
Area 3	G6M-03-07X	11/14/2024	1.0 U	0.39 J	1.0 U	1.0 U	0.5 U	1.0 U	**520**	**92**	**92,000**	**2,500**	5.3	0.71 U	23,000	0.027 J	140	1.0 U	14	1.7 U	6.39	0.47	23.2	0.69	12	-89.6
Area 3	G6M-04-02X	9/23/2004	1.0 U	3.8	**1,900**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	86	-	-	-	-	-	-	-	-	6.59	0.704	9.52	7.25	13.1	152.4
Area 3	G6M-04-02X	9/28/2005	5.0 U	5.0 U	**1,800**	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1,000 U	15 U	-	-	-	-	-	-	-	-	5.21	0.607	12.0	6.54	18.4	294.0
Area 3	G6M-04-02X	9/20/2006	1.0 U	2.2	**1,100**	2.0 U	**170**	2.0 U	5.0 U	0.1 U	100 U	24	-	-	-	-	-	-	-	-	5.22	0.696	10.6	2.88	17.2	-101.5
Area 3	G6M-04-02X	9/14/2007	1.0 U	**290**	**710**	21	**98**	2.0 U	**48**	**16**	**16,000**	**13,000**	-	-	-	-	-	-	-	-	6.52	1.356	2.30	2.91	15.3	-31.3
Area 3	G6M-04-02X	10/16/2008	5.0 U	**290**	**320**	5.0 U	**47**	5.0 U	**135**	**57**	**56,600**	**6,530**	-	-	-	-	-	-	-	-	6.32	1.302	3.80	0.74	15.8	-143.6
Area 3	G6M-04-02X	10/15/2009	8.0 U	15	**400**	8.0U	**110**	8.0 U	**78**	**21**	**20,800**	**3,580**	-	-	-	-	-	-	-	-	6.19	1.011	4.00	0.90	14.1	-25.0
Area 3	G6M-04-02X	10/6/2010	20 U	27	**380**	20 U	**54**	20 U	**182**	**40**	**40,200**	**5,530**	-	-	-	-	-	-	-	-	6.25	1.071	3.53	0.51	13.0	-50.1
Area 3	G6M-04-02X	6/8/2011	-	-	-	-	-	-	**317**	**43**	**42,700**	**4,540**	-	-	-	-	-	-	-	-	6.44	0.678	1.90	0.76	13.6	-95.9
Area 3	G6M-04-02X	10/5/2011	13 U	13 U	**630**	13 U	**93**	13 U	**172**	**18**	**18,100**	**4,370**	-	-	-	-	-	-	-	-	6.24	0.669	6.60	0.41	15.2	1.0
Area 3	G6M-04-02X	5/8/2012	-	-	-	-	-	-	**225**	**16**	**15,500**	**3,980**	-	-	-	-	-	-	-	-	6.36	0.475	1.12	0.20	14.9	-25.6
Area 3	G6M-04-02X	10/12/2012	5.0 U	5.0 U	**160**	5.0 U	**30**	5.0 U	**228**	**17**	**16,900**	**4,890**	-	-	-	-	-	-	-	-	6.33	0.534	2.02	0.44	15.9	-33.5
Area 3	G6M-04-02X	5/21/2013	-	-	-	-	-	-	**143**	**7.3**	**7,290**	**5,400**	-	-	-	-	-	-	-	-	5.98	0.699	0.74	0.36	13.6	18.3
Area 3	G6M-04-02X	10/17/2013	4.0 U	5.7	**140**	4.0 U	**31**	4.0 U	**231**	**21**	**20,600**	**6,800**	-	-	-	-	-	-	-	-	5.70	0.485	3.75	0.37	15.8	-12.3
Area 3	G6M-04-02X	6/11/2014	-	-	-	-	-	-	**137**	**14**	**13,900**	**5,900**	-	-	-	-	-	-	-	-	6.15	0.795	2.48	0.62	18.3	4.5
Area 3	G6M-04-02X	10/30/2014	0.5 U	33	**480**	0.5 U	**70**	**2.7 J**	**160**	**41**	**40,500**	**5,980**	-	-	-	-	-	-	-	-	6.34	0.628	1.86	0.28	19.0	-63.1
Area 3	G6M-04-02X	6/18/2015	0.5 U	16	**62**	0.5 U	**20**	1.8	**362**	**82**	**82,400**	**7,220**	-	-	-	-	-	-	-	-	6.30	0.500	10.9	0.32	13.1	-101.0
Area 3	G6M-04-02X	9/11/2015	1.0 U	8.8	**16**	1.0 U	**7.4**	1.8	**343**	**91**	**91,400**	**6,920**	10 U	10 U	7,390	0.067 J	-	0.87 J	3.3	2.0 U	6.59	0.663	2.50	0.39	14.0	-147.8
Area 3	G6M-04-02X	10/16/2015	1.0 U	1.0 U	**105**	1.0 U	**31**	1.6	**237**	**66**	**65,800**	**7,570**	-	-	-	-	-	-	-	-	6.32	0.818	2.43	0.23	12.8	-56.1
Area 3	G6M-04-02X	2/10/2016	2.0 U	12	**333**	2.0 U	**60 J**	1.5 J	**118**	**28**	**28,300**	**8,730**	10 U	10 U	4,410 J	0.11	118	10	2.1	2.0 U	6.74	0.536	10.8	0.87	10.0	-112.9
Area 3	G6M-04-02X	6/13/2016	1.0 U	23	**120**	1.0 U	**48**	**3.4**	**200**	**44**	**44,000**	**8,000**	-	-	-	-	-	-	-	-	6.43	0.875	1.59	0.34	13.4	-56.2
Area 3	G6M-04-02X	11/10/2016	1.0 U	58	**160**	0.37 J	**60**	**8.4**	**180**	**48**	**48,000**	**9,100**	-	-	-	-	-	-	-	-	6.62	0.629	4.32	0.51	10.3	-67.3
Area 3	G6M-04-02X	5/16/2017	1.0 U	22 J	**280**	0.39 J	**120**	**2.3 J**	**42**	**15**	**15,000**	**11,000**	1.1 U	2.2	4,800	0.065 J	130	10	2.5 J	1.0 U	6.00	0.956	3.90	2.09	13.2	29.5
Area 3	G6M-04-02X	10/20/2017	2.0 U	13	**97**	2.0 U	**26**	1.8 J	**260**	**66**	**66,000**	**10,000**	1.1 U	1.0 U	16,000	0.08 J	160	6.2	3.3	1.0 U	6.36	0.910	4.26	0.28	12.5	-66.9
Area 3	G6M-04-02X	4/3/2018	2.0 U	19	**300**	2.0 U	**74**	1.7 J	**99**	**30**	**30,000**	**9,800**	1.1 U	3.4	23,000	0.10	120	11	2.5	1.0 U	6.34	1.139	1.90	0.96	10.9	-22.3
Area 3	G6M-04-02X	10/30/2018	2.0 U	27	**200**	2.0 U	**64**	**3.0**	**81**	**45**	**45,000**	**14,000**	1.1 U	4.1	14,000 J	0.13	140	9.1	8.4	1.0 U	6.01	1.317	0.58	0.90	12.1	-22.7
Area 3	G6M-04-02X	4/3/2019	1.0 U	29	**160**	0.61 J	**130**	**3.5**	**120**	**47**	**47,000**	**9,800**	1.1 U	7.9	16,000	0.17 U	-	7.1	3.1	1.0 U	6.20	1.500	0.49	1.10	11.0	-76.0
Area 3	G6M-04-02X	10/18/2019	0.90 J	**260**	**5.4**	2.0 U	**7.0**	1.7 J	**230 J**	**81**	**81,000**	**13,000**	2.9	3.6	11,000	0.04 J	150	1.0 U	170	0.88 U	5.40	1.600	1,000	0.08	13.0	-52.0
Area 3	G6M-04-02X	05/12/2020	0.88 J	**290 J**	1.7	0.92 J	2.3	**28**	**93**	**52**	**52,000**	**6,900**	1.3	31	18,000	0.10 U	130	2.0 J	100	0.88 U	5.54	1.380	344	1.19	11.9	31.6
Area 3	G6M-04-02X	10/20/2020	1.0 U	**120 J**	**5.7 J**	1.0 U	**6.1 J**	**5.1 J**	**82**	**44**	**44,000**	**8,200**	3.7	8.6	2,600	0.067 J	100	10 U	220	4.0	6.09	1.030	313	0.10	14.1	-63.1
Area 3	G6M-04-02X	6/17/2021	0.63 J	**170**	4.2	0.94 J	3.7	**32**	**50**	**28**	**28,000**	**7,900**	5.0 U	33	20,000	0.12 U	120	1.1	40	1.0 U	5.33	1.356	135	0.11	15.9	-45.8
Area 3	G6M-04-02X	10/18/2021	1.0 U	**130**	**21**	0.84 J	**13**	**18**	**61**	**22**	**22,000**	**6,500**	0.56 J	37	19,000	0.05 U	120	3.4	17	0.81 U	5.87	2.080	12.2	0.55	11.6	-55.5
Area 3	G6M-04-02X	5/2/2022	1.0 U	**98**	**38**	0.71 J	**35**	**16**	**61**	**22**	**22,000**	**7,800**	1.9	36	26,000 J	0.05 U	110	4.2	8.4	1.2 U	5.88	1.340	77.8	0.25	12.3	-78.3
Area 3	G6M-04-02X	10/5/2022	1.0 U	**100 J**	**43 J**	0.96 J	**44 J**	**24 J**	**62**	**23**	**23,000**	**8,900**	2.4	23	20,000	0.025 U	140	5.0	7.5	1.7 U	6.20	1.000	8.87	0.71	13.7	-71.2
Area 3	G6M-04-02X	6/7/2023	1.0 U	60	**26**	0.51 J	**50**	**9.3**	**73**	**35**	**35,000**	**12,000**	6.0	21	20,000	0.083 J	130	6.0	4.7	1.5 U	5.80	1.420	15.10	0.01	14.1	-142.0
Area 3	G6M-04-02X	10/20/2023	1.0 U	46	**9.9**	0.62 J	**26**	**8.1**	**48**	**24**	**24,000**	**13,000**	7.3	17	26,000	0.025 U	120	5.1	5.7	1.7 U	5.69	1.310	181.00	0.16	13.0	-41.8
Area 3	G6M-04-02X	4/23/2024	1.0 U	48	**17**	0.79 J	**30**	**6.1**	**59**	**22**	**22,000**	**13,000**	9.2	16	24,000	0.054 J	91	9.7 J	5.3	1.8 U	5.76	1.5	13	0.69	13.1	-84.5
Area 3	G6M-04-02X	11/7/2024	1.0 U	38	**20**	0.60 J	**41**	**5**	**42**	**12**	**12,000**	**13,000**	5	11	16,000	0.025 U	110	9.2	3.7	1.7 U	5.71	1.8	95.5	0.76	13.9	-21.1
Area 3	G6M-04-04X	9/24/2004	1.0 U	24	**2,300**	2.0 U	**7.8**	2.0 U	5.0 U	1.0 U	1,000 U	560	0.037	0.12	13	5.5	10 U	20	1.0 U	2.0 U	5.75	1.637	169	5.05	12.5	197.3
Area 3	G6M-04-04X	9/29/2005	2.5 U	15	**1,600**	2.5 U	**5.4**	2.5 U	5.0 U	1.0 U	1,000 U	430	0.018 J	0.060	0.44	1.4	5.3	23	0.5 J	1.0 U	5.34	1.666	7.39	5.66	13.9	295.9
Area 3	G6M-04-04X	9/19/2006	1.0 U	**260**	**1,600**	2.0 U	**45**	2.0 U	**110**	**84**	**84,000**	**31,000**	0.12	0.095	33	0.2 U	190	10	120	1.6	6.22	1.765	7.64	0.32	13.5	-71.5
Area 3	G6M-04-04X	9/13/2007	1.2	**210**	**600**	2.0	**130**	**300**	**280**	**130**	**130,000**	**25,000**	0.005 J	7.0	18,000	0.2 U	270	890	63	1.2	6.57	2.398	3.50	3.20	13.0	-186.6
Area 3	G6M-04-04X	10/16/2008	2.5 U	48	**6.0**	2.8	**8.1**	**150 J**	**523**	**248**	**248,000**	**19,300**	1.3 U	62	18,000	0.10 U	520	7.0	35	0.03 U	6.40	2.239	4.00	2.39	13.2	-106.2
Area 3	G6M-04-04X	10/15/2009	0.5 U	4.8	0.5 U	5.2	0.5 U	**6.9**	**615**	**239**	**239,000**	**16,800**	1.3 U	61	38,000 J	0.13 U	520	23 J	32	0.03 U	6.47	1.744	5.00	0.86	14.2	-123.0
Area 3	G6M-04-04X	10/5/2010	0.5 U	2.8	0.5 U	2.6	0.5 U	**3.2**	**529**	**155**	**155,000**	**16,900**	1.2 U	210	52,000 J	0.13 U	81 J	5.0 U	15	0.03 U	6.35	2.133	3.10	0.40	13.6	-112.0
Area 3	G6M-04-04X	10/5/2011	0.5 U	1.1	0.5 U	4.1	0.5 U	**2.7**	**615**	**145**	**145,000**	**16,400**	1.2 U	160	31,000 J	0.13 U	350 J	5.0 U	17	0.049	6.61	1.042	5.00	0.10	13.0	-88.0
Area 3	G6M-04-04X	10/11/2012	0.5 U	0.80	0.5 U	3.7	0.5 U	**2.6**	**590**	**133**	**133,000**	**15,700**	1.3 U	460	51,000	0.13 U	220	5.0 U	13	0.052	6.66	1.693	1.53	0.39	14.0	-108.6
Area 3	G6M-04-04X	10/16/2013	0.5 U	1.8	0.5 U	3.1	0.5 U	**3.0**	**601**	**114**	**114,000**	**11,000**	3.5	420	44,000	0.13 U	240	0.94 J	11	0.049	6.57	1.345	4.75	0.24	11.0	-109.9
Area 3	G6M-04-04X	10/30/2014	0.5 U	0.5 U	0.5 U	1.7	0.5 U	0.39 J	**453**	**113**	**113,000**	**8,520**	1.2 U	85	43,000	0.098 J	180	0.18 J	9.0 J	0.03 U	6.59	1.537	6.54	0.42	11.4	-145.8

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 3	G6M-04-04X	9/14/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.91 J	**486**	**11.9 J**	**11,900 J**	**10,700 J**	10 U	33	9,170	0.068 J	-	3.4 J	7.5	2.0 U	6.70	1.264	3.25	0.28	15.0	-180.4
Area 3	G6M-04-04X	10/16/2015	2.8	1.0 U	0.76 J	1.0 U	1.0 U	1.0 U	**505**	**115**	**115,000**	**10,000**	10 U	61	20,000	0.11 U	167	1.6 J	8.5	2.0 U	5.99	1.727	3.13	0.57	10.7	-114.6
Area 3	G6M-04-04X	2/19/2016	1.0 U	0.50 J	1.0 U	2.8	1.0 U	1.0	**550**	**114**	**114,000**	**9,760**	10 U	65	13,900	0.10	278	1.3 J	7.3	2.0 U	7.68	1.173	3.97	1.29	11.5	-38.7
Area 3	G6M-04-04X	6/16/2016	1.0 U	0.65 J	1.0 U	1.0 U	1.0 U	1.1	**580**	**120**	**120,000**	**10,000**	9.2	86	31,000	0.05 U	160	30	8.6	1.0 U	6.51	1.407	4.20	1.46	16.2	-108.1
Area 3	G6M-04-04X	11/8/2016	1.0 U	0.43 J	1.0 U	1.2	1.0 U	0.57 J	**530**	**120**	**120,000**	**9,700**	3.0	38	20,000	0.05 U	180	1.0 U	7.3	4.4	6.01	1.402	3.49	0.32	13.8	-106.9
Area 3	G6M-04-04X	10/20/2017	1.0 U	0.51 J	1.0 U	1.4	1.0 U	1.0 U	**600**	**170**	**170,000**	**17,000**	3.8	39	19,000	0.11	250	0.72 J	11	1.0 U	6.64	0.940	4.39	0.24	12.7	-111.1
Area 3	G6M-04-04X	10/26/2018	1.0 U	0.83 J	1.0 U	0.37 J	1.0 U	0.60 J	**460**	**110**	**110,000**	**21,000**	-	-	-	-	-	-	-	-	6.44	2.529	9.98	0.21	13.0	-91.7
Area 3	G6M-04-04X	10/10/2019	1.0 U	0.93 J	1.0 U	1.0 U	1.0 U	0.55 J	3.0 U	50 U	50,000 U	61	-	-	-	-	-	-	-	-	6.40	3.000	2.30	0.34	13.0	-88.0
Area 3	G6M-04-04X	10/21/2020	1.0 U	0.64 J	1.0 U	0.39 J	1.0 U	1.0 U	**510**	**130**	**130,000**	**16,000**	-	-	-	-	-	-	-	-	6.23	2.460	3.79	0.15	15.1	-56.9
Area 3	G6M-04-04X	10/18/2021	1.0 U	0.68 J	2.0 U	1.0 U	1.0 U	1.0 U	**470**	**88**	**88,000**	**19,000**	-	-	-	-	-	-	-	-	6.48	2.220	29.30	0.01	15.5	-102.0
Area 3	G6M-04-04X	10/5/2022	1.0 U	0.79 J	1.0 U	0.38 J	0.23 J	1.0 U	**580**	**91**	**91,000**	**11,000**	-	-	-	-	-	-	-	-	6.77	1.571	18.76	0.74	13.4	-104.4
Area 3	G6M-04-04X	10/23/2023	1.0 U	0.30 J	1.0 U	1.0 U	0.5 U	1.0 U	**380**	**91**	**62,000**	**15,000**	-	-	-	-	-	-	-	-	6.45	1.830	3.20	0.13	15.0	-107.0
Area 3	G6M-04-04X	11/14/2024	1.0 U	0.26 J	1.0 U	1.0 U	0.5 U	1.0 U	**520**	**78**	**78,000**	**9,000**	-	-	-	-	-	-	-	-	6.54	1.54	7.7	1.08	12.1	-82.6
Area 3	G6M-13-03X	1/30/2014	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	5.58	0.248	1.11	0.69	10.9	205.0
Area 3	G6M-13-03X	10/30/2014	0.5 U	0.5 U	0.50 J	0.5 U	0.5 U	0.5 U	2.5 U	0.029 J	29 J	407	-	-	-	-	-	-	-	-	6.39	0.192	15.3	1.65	6.7	183.6
Area 3	G6M-13-03X	10/16/2015	1.0 U	1.0 U	0.57 J	1.0 U	1.0 U	1.0 U	4.0 U	100 U	100,000 J	362	-	-	-	-	-	-	-	-	5.53	2.539	36.6	1.58	11.9	157.6
Area 3	G6M-13-03X	11/10/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 J	0.45	450	420	-	-	-	-	-	-	-	-	4.15	1.540	31.6	0.43	12.5	40.0
Area 3	G6M-13-03X	10/18/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.075 U	75 U	550	-	-	-	-	-	-	-	-	5.61	2.250	4.69	0.58	11.9	170.1
Area 3	G6M-13-03X	10/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.01	2.618	7.29	0.81	12.1	-5.1
Area 3	G6M-13-03X	10/16/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	430	-	-	-	-	-	-	-	-	5.33	1.820	3.11	0.42	13.7	172.0
Area 3	G6M-13-03X	10/10/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.63	1.625	2.25	1.09	14.0	204.9
Area 3	G6M-13-03X	11/7/2024	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.43	2.26	24.2	0.84	15.7	97.7
Area 4	G6M-02-03X	2/26/2002	1.0 U	2.0 U	**210**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	11.61	1.154	18.1	2.21	18.9	11.0
Area 4	G6M-02-03X	9/23/2004	1.0 U	2.0 U	**48**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	4.95	1.374	3.80	1.17	17.6	632.1
Area 4	G6M-02-03X	9/29/2005	1.0 U	2.0 U	**12**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.70	1.138	10.7	2.90	17.6	204.9
Area 4	G6M-02-03X	9/18/2006	1.0 U	2.0 U	**10**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.20	0.993	4.32	0.35	14.4	219.4
Area 4	G6M-02-03X	9/14/2015	1.0 U	1.0 U	0.82 J	1.0 U	1.0 U	1.0 U	4.0 U	0.1 U	100 U	79	10 U	10 U	284	1.3	-	9.7 J	1.1	2.0 U	5.67	0.722	3.00	5.09	14.1	93.2
Area 4	G6M-02-03X	6/16/2016	-	-	-	-	-	-	3.0 U	0.05 U	50 U	310	-	-	-	-	-	-	-	-	4.87	1.658	19.9	0.45	16.7	139.6
Area 4	G6M-02-03X	11/8/2016	-	-	-	-	-	-	3.0 U	0.029 J	29 J	99	-	-	-	-	-	-	-	-	7.58	0.960	3.88	1.03	11.7	-53.7
Area 4	G6M-02-04X	2/26/2002	1.0 U	1.3 J	**470**	2.0 U	0.88 J	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.47	0.260	24.0	3.40	18.0	189.5
Area 4	G6M-02-04X	9/23/2004	1.0 U	2.9	**170**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	-	-	-	-	-	-	-	-	6.29	0.453	8.48	3.03	19.6	175.5
Area 4	G6M-02-04X	9/28/2005	1.0 U	6.2	**150**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	-	-	-	-	-	-	-	-	5.61	0.502	12.6	2.75	17.3	302.3
Area 4	G6M-02-04X	9/20/2006	1.0 U	2.0 U	**48**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	-	-	-	-	-	-	-	-	5.84	0.467	8.45	4.57	14.5	189.0
Area 4	G6M-02-04X	9/13/2007	1.0 U	2.0 U	**21**	2.0 U	4.2	2.0 U	6.0 U	0.1 U	100 U	15	-	-	-	-	-	-	-	-	6.39	0.927	4.80	3.13	14.9	93.0
Area 4	G6M-02-04X	10/16/2008	2.5 U	**150**	**9.0**	2.5 U	2.5 U	2.5 U	**78**	**8.6**	**8,560**	**7,370**	-	-	-	-	-	-	-	-	6.91	1.126	4.00	1.05	12.1	-80.0
Area 4	G6M-02-04X	10/15/2009	5.0 U	**120**	5.0 U	5.0 U	**17**	**10**	**309**	**82**	**81,700**	**10,900**	-	-	-	-	-	-	-	-	6.55	0.766	2.18	1.52	15.6	-139.8
Area 4	G6M-02-04X	10/4/2010	0.5 U	2.1	**5.3**	0.5 U	2.6	0.5 U	**101**	**20**	**20,200**	1,240	-	-	-	-	-	-	-	-	6.48	0.975	2.80	0.98	14.7	-86.9
Area 4	G6M-02-04X	6/9/2011	-	-	-	-	-	-	**246**	**28**	**28,200**	**3,180**	-	-	-	-	-	-	-	-	6.67	0.856	< 0.01	0.28	13.3	-88.3
Area 4	G6M-02-04X	10/6/2011	0.5 U	0.67	0.69	0.5 U	0.80	0.5 U	**292**	**36**	**35,600**	**2,480**	-	-	-	-	-	-	-	-	6.84	0.601	3.71	0.26	12.7	-112.5
Area 4	G6M-02-04X	5/9/2012	-	-	-	-	-	-	**451**	**43**	**43,400**	**2,510**	-	-	-	-	-	-	-	-	6.94	0.487	2.90	0.52	13.7	-114.8
Area 4	G6M-02-04X	10/9/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**374**	**30**	**30,000**	**1,860**	-	-	-	-	-	-	-	-	6.87	0.591	< 0.01	0.43	13.4	-129.3
Area 4	G6M-02-04X	5/21/2013	-	-	-	-	-	-	**313**	**28**	**28,100**	**1,890**	-	-	-	-	-	-	-	-	6.88	0.745	2.26	0.30	13.6	-110.5
Area 4	G6M-02-04X	10/16/2013	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**370**	**24**	**23,900**	1,390	-	-	-	-	-	-	-	-	6.92	0.522	1.32	0.38	13.2	-124.4
Area 4	G6M-02-04X	6/11/2014	-	-	-	-	-	-	**175**	**14**	**14,200**	997	-	-	-	-	-	-	-	-	6.60	0.956	3.35	0.59	13.1	-10.8
Area 4	G6M-02-04X	11/3/2014	0.5 U	0.5 U	0.5 U	0.5 U	0.24 J	0.5 U	**350**	**16**	**15,600**	971	-	-	-	-	-	-	-	-	7.08	0.550	1.38	1.42	14.7	-111.1
Area 4	G6M-02-04X	6/26/2015	0.5 U	0.91 J	0.60 J	0.5 U	0.52 J	0.5 U	**157**	**10**	**10,400**	1,060	-	-	-	-	-	-	-	-	7.39	1.238	1.55	0.71	14.7	-55.4
Area 4	G6M-02-04X	9/14/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**408**	**20**	**20,400**	995	10 U	10 U	4,350	0.057 U	-	9.6 J	1.6	2.0 U	7.01	0.400	1.30	0.40	14.6	-152.4
Area 4	G6M-02-04X	10/16/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**320**	**15**	**15,100**	1,000	-	-	-	-	-	-	-	-	6.78	0.665	0.86	0.43	13.0	-97.3
Area 4	G6M-02-04X	2/12/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**353**	**22**	**22,000**	1,370	10 U	10 U	964	0.12	42	8.0 J	1.1	2.0 U	7.08	0.711	1.94	0.79	11.3	-79.7
Area 4	G6M-02-04X	6/15/2016	1.0 U	1.0 U	1.0 U	1.0 U	0.59 J	1.0 U	**470**	**27**	**27,000**	1,400	-	-	-	0.05 U	250	0.8 U	4.4	1.0 U	6.88	1.031	2.84	0.30	16.7	-106.2
Area 4	G6M-02-04X	11/8/2016	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U	**470**	**21**	**21,000**	1,100	-	-	-	-	-	-	-	-	7.00	0.268	2.57	0.89	13.2	-153.6
Area 4	G6M-02-04X	10/16/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**440**	**22**	**22,000**	1,300	-	-	-	-	-	-	-	-	7.07	0.626	4.31	0.42	12.6	-119.3
Area 4	G6M-02-04X	10/26/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**470**	**22**	**22,000**	1,400	5.1	1.0 U	6,500	-	-	-	-	-	7.12	0.741	9.32	0.25	13.5	-141.7
Area 4	G6M-02-04X	10/28/2019	-	-	-	-	-	-	**520**	**53**	**53,000**	**2,600**	-	-	-	-	-	-	-	-	7.00	0.890	4.60	0.34	12.0	-130.0
Area 4	G6M-02-04X	12/20/2019	1.0 U	1.4	1.0 U	1.0 U	0.85 J	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.21	0.391	2.80	2.93	6.4	-181.3
Area 4	G6M-02-04X	10/15/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**430**	**63**	**63,000**	**3,400**	-	-	-	-	-	-	-	-	6.91	0.731	3.10	0.46	13.7	-157.0
Area 4	G6M-02-04X	10/21/2021	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	**400**	**37**	**37,000**	**2,000**	-	-	-	-	-	-	-	-	7.04	0.727	47.0	0.68	15.0	-143.0
Area 4	G6M-02-04X	10/6/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**520**	**47**	**47,000**	**2,000**	-	-	-	-	-	-	-	-	7.15	0.604	7.58	0.68	18.6	-164.5
Area 4	G6M-02-04X	10/20/2023	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**530**	**47**	**43,000**	**1,900**	-	-	-	-	-	-	-	-	6.89	0.590	96.50	0.13	14.0	-160.0
Area 4	G6M-02-04X	11/12/2024	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**420**	**38**	**38,000**	**1,900**	-	-	-	-	-	-	-	-	6.84	0.62	14.3	0.23	12.6	-135
Area 4	G6M-02-13X	8/2/2002	1.0 U	2.0 U	**4,600**	2.0 U	4.0	2.0 U	5.0 U	-	-	-	-	-	-	-	-	-	-	-	6.17	0.665	7.62	0.54	14.0	141.0
Area 4	G6M-02-13X	9/23/2004	1.0 U	16	**5,000**	2.0 U	**13**	2.0 U	5.0 U	1.0 U	1,000 U	1,200	0.27	0.15	57	2.3	31	17	1.0 U	1.8 J	6.37	0.618	2.14	0.34	16.7	170.8
Area 4	G6M-02-13X	12/13/2004	1.0 U	21	**4,600**	2.0 U	**14**	2.0 U	5.0 U	1.0 U	1,000 U	1,300	0.27	0.11	88	2.5	34	16 J	5.0 U	2.0 U	5.79	0.518	2.63	0.89	18.3	274.8
Area 4	G6M-02-13X	3/30/2005	50 U	**210**	**2,100**	100 U	**64 J**	100 U	**36**	**4.2**	**4,200**	**4,000**	0.16	0.11	38	0.23	60	13	8.1	2.0 U	5.97	0.735	2.91	0.89	15.0	-22.6
Area 4	G6M-02-13X	8/11/2005	2.0 U	**460**	**2,300**	5.9	**190**	2.0 U	**150**	**34 J**	**34,000 J**	**12,000 J**	0.026	0.045	46	0.05 U	230	2.3	66	1.0 U	5.82	0.897	5.60	0.74	14.8	-68.8
Area 4	G6M-02-13X	9/29/2005	10 U	**470**	**3,700**	10 U	**120**	10 U	**74**	**22**	**22,000**	**6,800**	0.16	0.12	420	0.05 U	110	8.9	37	2.4	6.41	0.710	6.99	1.26	15.5	-89.1
Area 4	G6M-02-13X	12/14/2005	2.0	**850**	**210**	2.0 U	**50**	2.0 U	**477**	**200 J**	**200,000 J**	**36,200**	0.057	0.087	11,000	0.083	420	2.0 U	290	8.2	6.60	1.389	0.60	0.11	15.4	-134.4
Area 4	G6M-02-13X	3/22/2006	1.0 U	**640**	**660**	2.0 U	**37 J**	2.0 U	**320**	**170**	**170,000**	**29,000**	0.025 U	0.009 J	21,000	0.2 U	480	8.1	280	3.0	6.67	1.379	2.37	0.90	14.3	-214.4
Area 4	G6M-02-13X	6/22/2006	1.0 U	**440**	**160**	2.0 U	**8.8**	**280**	**750**	**420**	**420,000**	**30,000**	0.025 J	0.51	25,000	0.2 U	480	1.2	140	20	6.54	2.175	16.1	0.28	14.7	-138.7
Area 4	G6M-02-13X	9/18/2006	1.0 U	**160**	**550**	2.0 U	**52**	**280**	**420**	**160**	**160,000**	**9,900**	0.15	1.1	24,000	0.2 U	140	8.1	52	2.8	6.12	1.190	6.90	0.36	13.4	-119.3

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 4	G6M-02-13X	12/14/2006	1.0 U	**190**	**460**	2.0 U	**20**	**220**	**460**	**260**	**260,000**	**12,000**	0.025	0.35	23,000	-	-	4.3	140	3.6	6.49	1.748	8.30	0.19	11.0	-73.7
Area 4	G6M-02-13X	3/27/2007	1.0 U	**120**	**460**	2.0 U	**39**	**170**	**400**	**170**	**170,000**	**8,400 J**	0.031	3.7	27,000	-	-	9.7	37	1.6	6.08	1.378	11.2	0.12	13.8	-14.6
Area 4	G6M-02-13X	6/13/2007	1.0 U	48	**440**	2.0 U	**45**	**46**	**380**	**300**	**300,000**	**9,400**	0.025 U	6.3	26,000	-	-	13	78	3.6	6.58	1.926	47.5	0.46	12.3	-178.7
Area 4	G6M-02-13X	9/13/2007	1.0 U	**120**	**510**	2.0 U	**150**	**53**	**230**	**88**	**88,000**	**4,800**	0.14	26	20,000	0.2 U	74	480	18	1.0 U	6.54	1.332	18.2	0.45	13.7	-145.3
Area 4	G6M-02-13X	12/14/2007	1.0 U	58 J	**690**	2.0 U	**84 J**	**21 J**	**210**	**46**	**46,000**	**4,500**	0.068	21	16,000	-	-	13	11	1.0 U	6.51	1.133	3.60	0.27	14.2	-133.2
Area 4	G6M-02-13X	3/12/2008	1.0 U	29	**130**	2.0 U	**96**	**12**	**260**	**68**	**68,000**	**7,600**	0.092	35	21,000	-	-	9.0	17	1.0 U	6.48	1.221	7.70	0.57	14.5	-140.5
Area 4	G6M-02-13X	10/6/2008	5.0 U	7.9	5.0 U	5.0 U	**9.7**	**7.5**	**380**	**91**	**91,000**	**4,940**	6.5 U	8.8	14,000	0.13 U	300	11	24	0.03 U	6.56	1.071	5.20	0.28	13.6	-173.6
Area 4	G6M-02-13X	1/21/2009	1.7 U	5.4	1.4 U	1.3 U	5.0	**5.7**	**371**	**72 J**	**72,000 J**	**3,990**	0.25 U	3.8	17,000	0.13 U	200	14	11 J	0.03 U	6.88	0.821	4.00	0.28	13.1	-121.2
Area 4	G6M-02-13X	5/6/2009	0.5 U	9.8	0.5 U	0.24 J	**5.1**	**6.2**	**351**	**69**	**69,400**	**3,820**	1.2 U	2.6	26,000	0.012 J	300 J	12	9.4 J	0.03 U	6.01	0.916	2.09	0.29	14.2	-93.4
Area 4	G6M-02-13X	10/15/2009	0.5 U	16	0.92	0.70	**8.6**	**8.5**	**369**	**93**	**93,300**	**6,800**	1.2 U	2.2	7,400	0.13 U	370	13	7.0 J	0.03 U	6.47	0.932	1.71	0.24	14.5	-148.8
Area 4	G6M-02-13X	4/20/2010	0.5 U	14	0.5 U	0.42 J	0.29 J	**13**	**322**	**134 J**	**134,000 J**	**5,790**	1.3 U	6.4	44,000	0.13 U	500	5.0 U	36	0.03 U	6.47	1.219	2.98	0.28	14.3	-7.3
Area 4	G6M-02-13X	10/4/2010	0.5 U	8.3	0.30 J	0.24 J	1.6	**8.4**	**281**	**59**	**58,500**	**4,690**	1.2 U	9.5	48,000	0.046 J	370	3.3 J	10 U	0.03 U	6.57	1.168	0.90	0.18	13.7	-124.5
Area 4	G6M-02-13X	6/9/2011	-	-	-	-	-	-	**302**	**72**	**72,300**	**6,820**	-	-	-	-	-	-	-	-	6.49	1.210	2.19	0.21	13.4	-110.8
Area 4	G6M-02-13X	10/6/2011	0.5 U	0.96	0.5 U	0.5 U	0.5 U	**2.4**	**258**	**36**	**36,200**	**5,690**	1.2 U	1.5 U	12,000	0.13 U	110	0.45 J	6.7 J	0.056	6.65	1.235	2.00	0.07	14.6	-94.6
Area 4	G6M-02-13X	5/9/2012	-	-	-	-	-	-	**205**	**26**	**25,900**	**6,670**	-	-	-	-	-	-	-	-	7.00	1.281	1.01	0.16	11.5	-118.5
Area 4	G6M-02-13X	10/11/2012	0.5 U	0.69	0.5 U	0.5 U	0.83	0.5 U	**159**	**25**	**24,900**	**8,190**	1.3 U	87	22,000	0.013 J	380	5.0 U	2.7 J	0.03 U	6.68	1.195	< 0.01	0.34	12.3	-109.8
Area 4	G6M-02-13X	5/21/2013	-	-	-	-	-	-	**212**	**22**	**22,300**	**12,500**	-	-	-	-	-	-	-	-	6.88	0.900	4.89	0.12	12.0	-118.0
Area 4	G6M-02-13X	10/16/2013	0.5 U	1.8	0.5 U	0.27 J	0.78	1.1	**140**	**19**	**19,100**	**11,400**	1.8	3.9	34,000	0.13 U	350	5.0 U	2.5 J	0.037	6.87	0.916	< 0.01	0.37	12.0	-110.0
Area 4	G6M-02-13X	6/11/2014	-	-	-	-	-	-	**195**	**20**	**20,400**	**15,800**	-	-	-	-	-	-	-	-	6.74	0.958	3.92	0.27	13.6	-85.0
Area 4	G6M-02-13X	10/29/2014	0.5 U	2.8	0.5 U	0.5 U	1.3	1.8	**128**	**12 J**	**12,000 J**	**7,920 J**	1.2 U	1.5 U	7,300	0.13 U	280	0.16 J	5.0 U	0.03 U	6.86	0.822	6.49	0.26	-	-81.0
Area 4	G6M-02-13X	6/23/2015	0.5 U	3.4	0.5 U	0.5 U	1.7	**2.5**	**142**	**13**	**12,500**	**11,100**	5.0 U	5.0 U	1,840	0.11 U	250	2.6 J	2.9	1.0 U	6.74	0.817	5.37	1.24	14.6	-107.2
Area 4	G6M-02-13X	9/11/2015	1.0 U	5.2	1.0 U	1.0 U	2.8	**4.9**	**142**	**11**	**10,500**	**9,980**	10 U	10 U	832	0.067 J	-	0.52 J	2.3	2.0 U	6.45	0.619	2.85	0.25	13.4	-76.0
Area 4	G6M-02-13X	10/16/2015	1.0 U	1.0 U	1.0 U	1.0 U	3.6	**3.3**	**114**	**9.8**	**9,770**	**12,300**	10 U	10 U	473	0.11 U	261	1.5 J	3.2	2.0 U	6.84	0.667	2.90	0.31	8.4	-87.2
Area 4	G6M-02-13X	2/12/2016	1.0 U	13	4.5	0.51 J	**14**	**7.7**	**145**	**10**	**10,200**	**11,100**	10 U	10 U	500	0.11	252	10 U	2.1	2.0 U	7.02	0.671	2.00	0.59	9.5	-102.3
Area 4	G6M-02-13X	6/16/2016	1.0 U	20	1.0 U	0.65 J	**22**	**9.4**	**96**	**7.9**	**7,900**	**11,000**	0.87 J	8.2	3,400	0.05 U	210	0.8 U	2.4	1.0 U	7.03	0.618	4.63	0.66	16.5	-86.6
Area 4	G6M-02-13X	11/8/2016	1.0 U	65	1.0 U	0.59 J	**9.7**	**23**	**110**	**7.7**	**7,700**	**12,000**	1.1 U	7.8	1,500	0.05 U	190	0.63 J	1.7	1.0 U	6.98	0.383	2.97	0.77	12.3	-152.9
Area 4	G6M-02-13X	10/19/2017	1.0 U	57	3.3	0.47 J	**21**	**17**	**120**	**6.4**	**6,400**	**8,500**	0.73 J	5.9	1,500	0.05 U	180	3.0	1.8	1.0 U	6.75	0.501	5.52	0.22	12.4	-58.1
Area 4	G6M-02-13X	10/24/2018	1.0 U	1.8	1.0 U	1.0 U	1.0 U	1.6	**150**	**11**	**11,000**	**18,000**	1.8	2.8	5,900	-	-	-	-	-	6.53	1.260	14.6	1.39	12.6	-40.1
Area 4	G6M-02-13X	10/14/2019	1.0 U	4.4	1.0 U	1.0 U	1.0 U	**5.1**	**140**	**10**	**10,000**	**20,000**	-	-	-	-	-	-	-	-	6.70	1.300	4.70	0.11	14.0	-82.0
Area 4	G6M-02-13X	10/16/2020	1.0 U	0.90 J	1.0 U	1.0 U	1.0 U	0.96 J	**160**	**12 J**	**12,000 J**	**26,000**	-	-	-	-	-	-	-	-	6.79	0.958	< 0.01	0.63	13.0	-79.7
Area 4	G6M-02-13X	10/15/2021	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	**250**	**14**	**14,000**	**22,000**	-	-	-	-	-	-	-	-	6.72	2.580	1.22	0.68	12.4	-96.8
Area 4	G6M-02-13X	10/5/2022	1.0 U	0.33 J	1.0 U	1.0 U	0.5 U	1.0 U	**270**	**11**	**11,000**	**19,000**	-	-	-	-	-	-	-	-	6.46	1.906	2.57	1.57	16.3	-64.4
Area 4	G6M-02-13X	10/23/2023	1.0 U	0.32 J	1.0 U	1.0 U	0.5 U	1.0 U	**310**	**11**	**11,000**	**15,000**	-	-	-	-	-	-	-	-	6.60	1.300	8.89	0.64	16.0	-99.1
Area 4	G6M-02-13X	11/12/2024	1.0 U	0.30 J	1.0 U	1.0 U	0.5 U	1.0 U	**280**	**12**	**12,000**	**15,000**	-	-	-	-	-	-	-	-	6.61	1.34	4.82	0.45	13.1	-72.1
Area 4	G6M-06-01X	3/30/2006	1.0 U	2.0 U	**30**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.03	0.652	70.7	3.73	8.2	-87.8
Area 4	G6M-06-01X	3/30/2007	1.0 U	2.0 U	**72**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.73	1.005	10.2	2.87	10.0	138.5
Area 4	G6M-06-01X	9/13/2007	1.0 U	2.1	**83**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.60	0.967	6.30	10.7	12.7	-93.9
Area 4	G6M-06-01X	12/14/2007	1.0 U	2.3	**110**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.96	0.991	3.90	2.43	17.5	132.9
Area 4	G6M-06-01X	10/16/2008	1.0 U	1.4	**71**	1.0 U	1.8	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.51	0.956	20.0	3.08	10.8	118.6
Area 4	G6M-06-01X	10/15/2009	8.0 U	6.3 J	**170**	8.0U	**28**	8.0 U	8.0 U	0.32	321	50 U	-	-	-	-	-	-	-	-	5.82	0.832	0.13	2.69	13.7	85.3
Area 4	G6M-06-01X	10/4/2010	4.0 U	7.2	**120**	4.0 U	3.4 J	4.0 U	5.0 U	0.211 U	211 U	33.2 U	-	-	-	-	-	-	-	-	6.00	1.160	25.1	1.72	13.2	57.1
Area 4	G6M-06-01X	6/8/2011	0.5 U	7.2	**190**	0.5 U	**7.7**	0.5 U	5.0 U	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	5.81	0.979	4.01	1.39	17.1	122.0
Area 4	G6M-06-01X	10/6/2011	1.3 U	46	**96**	1.3 U	**30**	**3.5**	3.7 J	0.14	139	39	-	-	-	-	-	-	-	-	6.22	0.825	13.1	0.59	11.0	40.8
Area 4	G6M-06-01X	5/8/2012	10 U	16	**310**	10 U	**18**	10 U	5.0 U	0.1 U	100 U	9.4 J	-	-	-	-	-	-	-	-	6.14	0.943	2.59	0.65	13.1	87.4
Area 4	G6M-06-01X	10/10/2012	4.0 U	9.1	**180**	4.0 U	**7.6**	4.0 U	5.0 U	0.052 J	52 J	8.8 J	-	-	-	-	-	-	-	-	5.94	0.819	2.61	0.54	10.6	56.2
Area 4	G6M-06-01X	5/21/2013	5.0 U	17	**170**	5.0 U	**30**	2.0 J	5.0 U	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	5.96	1.058	8.89	0.36	13.1	81.0
Area 4	G6M-06-01X	11/05/2020	1.0 U	9.0 J	0.95 J	1.0 U	1.1 J	1.0 U	**160**	**140**	**140,000**	**2,600**	-	-	-	-	-	-	-	-	4.18	0.909	> 5,000	0.44	16.7	123.0
Area 4	G6M-13-02X	1/30/2014	0.5 U	34	**120**	0.34 J	**20**	**14**	-	-	-	-	-	-	-	-	-	-	-	-	6.44	1.099	3.11	0.88	16.0	53.9
Area 4	G6M-13-02X	6/11/2014	0.29 J	**81**	**170**	0.53	**54**	**6.0**	3.2 J	0.47	472	33	-	-	-	-	-	-	-	-	6.05	0.900	4.29	0.71	11.6	144.8
Area 4	G6M-13-02X	11/3/2014	5.0 U	**95**	**210**	5.0 U	**39**	**6.7**	2.5 U	0.146 U	146 U	20 J	-	-	-	-	-	-	-	-	6.31	0.625	2.27	1.30	5.7	75.8
Area 4	G6M-13-02X	6/26/2015	0.5 U	38	**105**	0.5 U	**50**	1.1	2.1 J	0.05 U	50 U	9.4 J	-	-	-	-	-	-	-	-	5.99	0.917	9.69	1.03	17.1	101.6
Area 4	G6M-13-02X	10/16/2015	1.0 U	1.0 U	**70**	1.0 U	**31**	1.4 J	4.0 U	0.087	87	15	-	-	-	-	-	-	-	-	6.27	1.069	2.97	0.35	8.0	72.0
Area 4	G6M-13-02X	2/22/2016	1.0 U	21	**86**	0.54 J	**25**	0.65 J	4.0 U	0.1 U	100 U	22	10 U	10 U	3,560	0.28	56	16	0.81 J	2.0 U	6.23	0.818	4.89	0.90	11.5	21.6
Area 4	G6M-13-02X	6/16/2016	1.0 U	61	**77**	0.89 J	**34**	1.5	1.8 J	0.19	190	20	-	-	-	-	-	-	-	-	6.17	0.937	11.3	1.29	16.7	3.6
Area 4	G6M-13-02X	11/8/2016	1.0 U	38	**84**	1.0 U	**27**	0.93 J	3.0 U	0.05 U	50 U	4.7 J	-	-	-	-	-	-	-	-	6.30	0.689	2.01	0.94	11.9	-136.1
Area 4	G6M-13-02X	5/16/2017	1.0 U	30	**79**	0.39 J	**25**	0.90 J	3.0 U	0.05 U	50 U	16	0.64 J	1.0 U	4,300	0.34	54	12	1.0 U	1.0 U	6.07	0.841	5.79	0.47	12.9	89.7
Area 4	G6M-13-02X	10/19/2017	1.0 U	13	**65**	0.5 U	**15**	0.99 J	1.5 J	0.23	230	50	1.1 U	1.0 U	4,100	0.47	75	12	2.2	1.0 U	6.33	0.996	8.18	0.22	13.4	51.1
Area 4	G6M-13-02X	4/3/2018	1.0 U	15	**58**	0.65 J	**11**	1.1	3.0 U	0.16	160	54	1.1 U	1.0 U	6,300	0.35	53	11	6.8	1.0 U	6.51	1.063	4.17	0.81	11.3	-19.0
Area 4	G6M-13-02X	10/24/2018	1.0 U	24 J	**28 J**	1.0 J	**9.6 J**	**3.5 J**	3.6	0.10	100	160	1.6	1.3	6,700	0.095 J	67	10 J	29 J	1.0 U	5.79	1.217	38.7	0.32	13.4	-26.4
Area 4	G6M-13-02X	4/4/2019	1.0 U	11	**22**	0.42 J	**8.5**	1.5	1.5 J	0.40	400	80	1.3	1.0 U	7,800	0.23	-	12	1.8	1.0 U	6.20	1.200	6.80	0.92	13.0	-120.0
Area 4	G6M-13-02X	10/30/2019	-	-	-	-	-	-	2.4 J	0.75	750	130	1.2	1.0 U	11,000	0.048 J	57	12	0.86 J	0.83 U	6.00	1.200	7.00	0.15	13.0	4.8
Area 4	G6M-13-02X	12/26/2019	1.0 U	8.8	**16**	0.53 J	**8.6**	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.22	1.171	1.84	0.86	11.7	-22.4
Area 4	G6M-13-02X	05/12/2020	1.0 U	32	**5.6**	1.1	**12**	**17**	3.0 U	0.15	150	16	1.3	2.1	16,000	0.10 U	66	4.1	5.2	1.4	5.98	1.010	12.7	0.82	11.9	-13.9
Area 4	G6M-13-02X	10/19/2020	1.0 U	8.9 J	**14 J**	0.74 J	**8.4 J**	**3.8 J**	10	2.5	2,500	540	1.0 J	1.0 U	18,000	0.05 U	78	7.3	4.5	0.93 U	6.04	0.842	11.8	0.43	13.6	-14.8
Area 4	G6M-13-02X	5/14/2021	1.0 U	10	3.3	0.73 J	4.8	**3.2**	**15**	**3.5**	**3,500**	1200 J	1.5	2.5	13,000	0.02 J	75	7.9	2.5	0.81 U	6.22	0.739	7.8	2.80	11.6	-68.8
Area 4	G6M-13-02X	10/18/2021	1.0 U	13	**11**	0.68 J	**12**	**2.3**	**14**	1.7	1,700	**2,700**	0.69 J	0.84 J	6,500	0.05 U	100	8.0	7.0	0.81 U	6.25	1.980	7.4	0.60	11.0	-11.9
Area 4	G6M-13-02X	5/3/2022	1.0 U	6.8	3.4	0.67 J	**8.4**	1.0 U	3.2 J	0.29	290	**1,500**	0.68 J	0.71 U	11,000 J	0.053 J	48	7.6	1.1	1.2 U	5.87	0.978	53.0	0.52	11.7	47.3
Area 4	G6M-13-02X	10/10/2022	1.0 U	3.9	1.5 J	0.70 J	**3.1**	1.0 U	9.3	0.72	720	**11,000**	0.76 U	0.71 U	5,200	0.028 J	100	6.3	2.1	1.7 U	6.64	0.920	4.7	0.69	14.4	3.6
Area 4	G6M-13-02X	6/7/2023	1.0 U	11	1.0 U	0.65 J	**7.2**	0.45 J	**20**	0.60	600	**12,000**	0.76 U	0.71 U	780	0.016 J	93	8.8	2.0	1.5	6.38	1.610	1.7	0.72	21.2	20.1
Area 4	G6M-13-02X	10/20/2023	1.0 U	11	1.0 U	1.4 J	3.3	0.58 J	**27**	1,500.00	1,500	**12,000**	0.87 J	0.71 U	8,800	0.025 U	83	8.9	1.0 J	1.7 U	6.18	1.100	96.1	0.30	15.7	6.8
Area 4	G6M-13-02X	4/23/2024	1.0 U	6.5	1.0 U	1.3 J	0.5 U	0.59 J	**30**	**4.7**	**4,700**	**16,000**	1.3	0.71 U	8,800	0.025 U	110	10.0 J	2	1.8 U	6.35	1.24	3.2	0.7	14.8	-65.7

Appendix D
Historical Groundwater Analytical Results
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 4	G6M-13-02X	11/14/2024	1.0 U	1.0 UJ	1.0 U	0.52 J	0.99 J	1.0 U	20	2.8	2,800	15,000	0.75 J	1.6	2,200	0.025 U	91	6.8	3.9	1.7 U	6.21	0.72	1.36	0.89	12.3	-32.5
Area 4	G6M-97-28X	12/13/2006	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.025 U	0.019 J	870	-	-	-	5.0 U	-	6.21	0.162	5.60	3.38	11.5	142.8
Area 4	G6M-97-28X	9/14/2015	1.0 U	37	0.57 J	1.6	63	22	4.0 U	0.23	234	2,110	10 U	10 U	85	0.11 U	-	12	1.1	2.0 U	6.21	0.256	-	0.30	14.4	67.7
Area 4	G6M-97-28X	2/12/2016	1.0 U	1.4	1.0 U	1.0 U	1.1	0.53 J	48	2.5	2,490	5,690	10 U	10 U	235	0.085 J	111	4.2 J	1.6	2.0 U	6.92	0.210	8.64	1.99	6.1	72.8
Area 4	G6M-97-28X	6/16/2016	-	-	-	-	-	-	190	6.0	6,000	2,200	-	-	-	-	-	-	-	-	6.68	0.312	2.15	0.28	23.1	-85.3
Area 4	G6M-97-28X	11/8/2016	-	-	-	-	-	-	27	2.2	2,200	18,000	-	-	-	-	-	-	-	-	6.72	0.537	11.9	0.86	12.8	-70.9
Area 4	G6M-97-28X	10/26/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	92	9.5	9,500	9,500	1.1 U	1.0 U	210	-	-	-	0.5 U	-	6.33	0.817	20.1	0.43	11.1	-37.8
Area 4	G6M-97-28X	10/28/2019	-	-	-	-	-	-	71	7.9	7,900	10,000	-	-	-	-	-	-	-	-	6.10	1.100	1.80	0.35	12.0	6.8
Area 4	G6M-97-28X	10/15/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	44	8.3	8,300	12,000	-	-	-	-	-	-	-	-	6.08	0.875	6.24	0.59	14.7	-7.6
Area 4	G6M-97-28X	10/12/2021	-	-	-	-	-	-	120	7.7	7,700	6,800	-	-	-	-	-	-	-	-	6.69	0.550	4.89	1.25	17.5	-125.0
Area 4	G6M-97-28X	10/6/2022	-	-	-	-	-	-	70	4.3	4,300	5,000	-	-	-	-	-	-	-	-	6.77	0.528	7.49	0.76	14.7	-94.6
Area 4	G6M-97-28X	10/19/2023	-	-	-	-	-	-	120	4.3	9,300	6,200	-	-	-	-	-	-	-	-	6.60	0.710	62.70	0.17	14.9	-98.4
Area 4	G6M-97-28X	11/12/2024	-	-	-	-	-	-	120	7.4	7,400	4,500	-	-	-	-	-	-	-	-	6.65	0.55	21.6	0.37	12	-102
Area 5	G6M-02-05X	2/28/2002	1.0 U	1.9 J	130	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.15	0.597	11.0	6.61	15.7	181.1
Area 5	G6M-02-05X	1/30/2003	1.0 U	2.3	170	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.7	-
Area 5	G6M-02-05X	9/30/2005	1.0 U	2.6	200	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	4.73	0.512	7.90	3.61	15.8	441.8
Area 5	G6M-02-05X	9/22/2006	1.0 U	2.2	350	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.52	0.543	7.38	2.14	12.7	94.8
Area 5	G6M-02-05X	9/12/2007	1.0 U	7.9	510	2.0 U	50	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.39	0.723	30.6	0.78	12.3	-57.8
Area 5	G6M-02-05X	10/20/2008	10 U	4.4 J	390	10 U	17	10 U	-	-	-	-	-	-	-	-	-	-	-	-	7.00	0.588	3.00	1.83	12.4	-41.9
Area 5	G6M-02-05X	10/19/2009	10 U	10 U	370	10 U	53	10 U	49	3.8	3,820	2,490	1.3 U	1.6 U	410	0.26	57	19	10 U	0.03 U	6.22	0.699	1.40	0.31	12.5	30.6
Area 5	G6M-02-05X	10/5/2010	5.0 U	4.0 J	240	5.0 U	100	5.0 U	71	5.4	5,420	2,420	1.2 U	1.5 U	160	0.025 J	20 U	13	10 U	0.03 U	6.25	0.749	5.99	0.25	12.3	-37.5
Area 5	G6M-02-05X	6/8/2011	0.62	78	200	3.7	230	18 J	105	8.6	8,580	2,700	1.2 U	10	5,400	0.13 U	180	11	2.6 J	0.03 U	6.16	0.708	< 0.01	0.24	12.3	-42.8
Area 5	G6M-02-05X	10/6/2011	2.0 U	59	37	2.0 U	140	25	125	11	10,800	2,300	1.2 U	15	6,600	0.012 J	530	14	2.1 J	0.03 U	6.18	0.959	1.40	0.73	11.6	-4.0
Area 5	G6M-02-05X	10/6/2011	2.0 U	59	37	2.0 U	140	25	125	11	10,800	2,300	1.2 U	15	6,600	0.012 J	530	14	2.1 J	0.03 U	6.18	0.959	1.40	0.73	12.4	-4.0
Area 5	G6M-02-05X	5/9/2012	0.5 U	17	140	0.5 U	68	0.5 U	103	8.6	8,630	2,060	1.3 U	1.6 U	3,900	0.13 U	75	14	10 U	0.03 U	6.19	0.682	1.52	0.78	12.6	9.0
Area 5	G6M-02-05X	10/10/2012	2.0 U	16	94	2.0 U	44	2.0 U	73	6.8	6,780	1,460	1.2 U	1.5 U	4,400	0.11 J	64	14	10 U	0.03 U	6.14	0.809	< 0.01	1.92	11.2	15.2
Area 5	G6M-02-05X	5/21/2013	0.30 J	78	38 J	0.48 J	33 J	2.3	84	8.4	8,430	1,310	1.2 U	1.5 U	2,200	0.13 U	100 J	12	10 U	0.03 U	6.26	0.753	0.77	0.75	14.0	-19.1
Area 5	G6M-02-06X	3/1/2002	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.16	0.135	32.0	8.91	12.2	134.8
Area 5	G6M-02-06X	9/24/2004	1.0 U	2.0 U	5.5	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.33	0.090	0.02	9.48	12.3	152.8
Area 5	G6M-02-06X	9/30/2005	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.22	0.107	4.39	8.22	13.3	66.4
Area 5	G6M-02-06X	9/21/2006	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.30	0.098	10.9	7.84	11.3	139.3
Area 5	G6M-02-06X	9/14/2007	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.94	0.149	7.70	8.50	10.9	-140.7
Area 5	G6M-02-06X	10/20/2008	0.5 U	0.5 U	0.47 J	0.5 U	0.5 U	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	7.09	0.109	6.50	7.71	11.3	88.8
Area 5	G6M-02-06X	10/14/2009	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	8.0 U	0.2 U	200 U	50 U	-	-	-	-	-	-	-	-	6.98	0.115	0.20	8.96	11.4	26.1
Area 5	G6M-02-06X	10/5/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	6.90	0.128	4.38	7.66	11.6	63.6
Area 5	G6M-02-06X	10/7/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 J	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	6.87	0.076	18.6	6.30	11.8	24.7
Area 5	G6M-02-06X	10/10/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	7.11	0.134	10.5	8.89	11.4	16.8
Area 5	G6M-02-06X	10/15/2013	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	7.36	0.134	2.62	9.84	12.9	110.9
Area 5	G6M-02-06X	10/30/2014	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.155 U	155 U	6.0 J	-	-	-	-	-	-	-	-	7.21	0.101	2.18	7.73	13.9	73.1
Area 5	G6M-02-06X	10/19/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	0.1 U	100 U	15 U	-	-	-	-	-	-	-	-	7.29	0.114	2.23	8.05	12.9	82.5
Area 5	G6M-02-06X	11/11/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	3.0 U	-	-	-	-	-	-	-	-	7.86	0.840	4.92	6.80	9.6	-32.7
Area 5	G6M-02-06X	10/19/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.075 U	75 U	5.0 U	-	-	-	-	-	-	-	-	7.02	0.123	4.41	5.72	11.9	40.2
Area 5	G6M-02-06X	10/22/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	3.0 U	-	-	-	-	-	-	-	-	7.21	0.152	11.8	5.35	11.2	168.4
Area 5	G6M-02-06X	10/15/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 J	0.05 U	50 U	3.0 U	-	-	-	-	-	-	-	-	7.30	0.150	3.50	8.40	11.0	63.0
Area 5	G6M-02-06X	10/16/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.5 J	0.05 U	50 U	1.3 J	-	-	-	-	-	-	-	-	7.37	0.095	3.93	8.55	11.8	224.0
Area 5	G6M-02-06X	10/14/2021	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.5 J	0.05 U	50 U	3.0 U	-	-	-	-	-	-	-	-	7.26	0.119	0.50	6.97	13.8	107.0
Area 5	G6M-02-06X	10/6/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.5 J	0.05 U	50 U	5.0 U	-	-	-	-	-	-	-	-	7.21	0.153	2.69	6.20	13.1	605.6
Area 5	G6M-02-06X	11/2/2023	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.5 J	0.05 U	50 U	5.0 U	-	-	-	-	-	-	-	-	7.20	0.150	0.80	6.95	11.2	51.1
Area 5	G6M-02-06X	11/12/2024	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.5 J	0.050 U	50 U	5.0 U	-	-	-	-	-	-	-	-	7.26	0.11	0	7.43	10.2	123
Area 5	G6M-02-07X	2/26/2002	1.0 U	2.0 U	24	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.34	0.259	46.0	0.00	11.5	110.3
Area 5	G6M-02-07X	9/23/2004	1.0 U	2.0 U	26	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.26	0.423	25.0	1.72	12.4	332.8
Area 5	G6M-02-07X	9/30/2005	1.0 U	2.0 U	16	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.69	0.389	7.70	6.98	11.1	121.2
Area 5	G6M-02-07X	9/21/2006	1.0 U	2.0 U	11	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.58	0.251	14.3	3.72	10.8	143.6
Area 5	G6M-02-07X	9/13/2007	1.0 U	2.0 U	12	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.68	0.334	3.00	3.78	10.5	43.3
Area 5	G6M-02-07X	10/20/2008	0.5 U	0.5 U	9.8 J	0.5 U	0.27 J	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	7.46	0.271	12.0	3.15	10.5	42.8
Area 5	G6M-02-07X	10/15/2009	10 U	10 U	6.7 J	10 U	210	10 U	8.0 U	0.127 U	127 U	50 U	-	-	-	-	-	-	-	-	7.41	0.413	3.00	1.15	11.5	-14.0
Area 5	G6M-02-07X	1/15/2010	0.75 U	0.5 U	5.7	0.75 U	0.5 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.53	0.344	1.88	3.26	11.6	150.2
Area 5	G6M-02-07X	10/5/2010	0.5 U	0.5 U	4.7	0.5 U	0.24 J	0.5 U	5.0 U	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	7.39	0.296	1.33	2.57	11.8	60.3
Area 5	G6M-02-07X	10/3/2011	0.5 U	0.5 U	3.6	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	7.54	0.198	5.12	1.58	11.8	26.6
Area 5	G6M-02-07X	10/11/2012	0.5 U	0.57	4.6	0.5 U	0.5 U	0.5 U	5.0 U	0.028 J	28 J	25 U	-	-	-	-	-	-	-	-	7.68	0.352	2.69	1.31	-	98.1
Area 5	G6M-02-07X	10/15/2013	0.5 U	0.5 U	1.1	0.5 U	0.5 U	0.5 U	2.9 J	0.1 U	100 U	5.1 J	-	-	-	-	-	-	-	-	7.62	0.911	1.05	2.39	-	99.8
Area 5	G6M-02-07X	10/29/2014	0.5 U	0.62	3.9	0.5 U	0.27 J	0.5 U	2.4 J	0.025 U	25 U	7.8 J	-	-	-	-	-	-	-	-	7.41	0.535	3.71	0.22	11.4	10.9
Area 5	G6M-02-07X	10/19/2015	1.0 U	1.0 U	4.5	1.0 U	1.0 U	1.0 U	4.0 U	0.1 U	100 U	15 U	-	-	-	-	-	-	-	-	7.64	0.362	3.69	0.35	16.0	75.3
Area 5	G6M-02-07X	11/11/2016	1.0 U	1.0	5.4	1.0 U	0.75 J	1.0 U	3.0 U	0.050	50	11	-	-	-	-	-	-	-	-	7.86	0.084	4.92	6.80	9.6	-32.7
Area 5	G6M-02-07X	10/23/2017	1.0 U	1.0 U	4.2	1.0 U	1.0 U	1.0 U	1.9 J	0.11	110	12	-	-	-	-	-	-	-	-	7.57	0.335	9.82	0.29	11.9	-39.4
Area 5	G6M-02-07X	10/23/2018	1.0 U	1.0 U	3.4	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	3.0 U	-	-	-	-	-	-	-	-	7.65	0.575	8.66	0.31	11.7	81.7
Area 5	G6M-02-07X	10/9/2019	1.0 U	1.0 U	4.7	1.0 U	0.52 J	1.0 U	3.0 U	0.05 U	50 U	1.2 J	-	-	-	-	-	-	-	-	7.60	0.320	1.20	0.48	11.0	47.0
Area 5	G6M-02-07X	10/16/2020	1.0 U	1.0 U	3.8 J	1.0 U	1.0 U	1.0 U	1.5 J	0.017 J	17 J	6.1 J	-	-	-	-	-	-	-	-	7.81	0.217	39.1	0.73	12.0	-5.3
Area 5	G6M-02-07X	10/14/2021	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.042 J	42 J	13	-	-	-	-	-	-	-	-	7.78	1.510	4.41	0.01	14.3	-56.8
Area 5	G6M-02-07X	10/7/2022	1.0 U	1.0 U	2.0	1.0 U	0.5 U	1.0 U	1.1 J	27	27,000	1,600	-	-	-	-	-	-	-	-	7.36	0.408	2.78	0.58	12.8	579.6
Area 5	G6M-02-07X	10/18/2023	1.0 U	1.0 U	0.44 J	1.0 U	0.5 U	1.0 U	1.3 J	27	50 U	14	-	-	-	-	-	-	-	-	7.17	1.860	7.20	1.00	13.1	18.2

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 5	G6M-02-07X	11/12/2024	1.0 U	1.0 U	2.8	1.0 U	0.5 U	1.0 U	0.98 J	0.050 U	50 U	4.9 J	-	-	-	-	-	-	-	-	7.62	0.22	0.86	1.15	10.8	98.1
Area 5	G6M-02-11X	8/1/2002	1.0 U	2.0 U	**450**	2.0 U	2.8	2.0 U	5.0 U	-	-	-	-	-	-	-	-	-	-	-	6.01	0.984	8.13	0.46	13.9	184.0
Area 5	G6M-02-11X	8/28/2002	1.0 U	2.0 U	**540 J**	2.0 U	2.0 U	2.0 U	5.0 U	-	-	-	-	-	-	-	44	-	5.0 U	-	6.05	0.905	6.49	0.51	10.7	173.0
Area 5	G6M-02-11X	10/29/2002	1.0 U	3.0	**970**	2.0 U	**22**	2.0 U	5.0 U	1.0 U	1,000 U	**1,700**	-	-	-	0.10 U	51	17	5.0 U	2.0 U	6.02	0.920	5.04	0.49	13.2	51.0
Area 5	G6M-02-11X	2/3/2003	1.0 U	2.0 U	**710**	20 U	**22**	2.0 U	5.0 U	1.0 U	1,000 U	-	-	-	-	-	65	-	5.0 U	-	6.22	0.971	12.7	0.71	14.1	178.0
Area 5	G6M-02-11X	7/16/2003	1.0 U	33	**530**	2.0 U	**54**	2.0 U	5.0 U	1.0 U	1,000 U	-	0.005 U	0.014	460	-	120	16 J	5.0 U	2.0 U	6.31	0.813	11.9	0.86	16.1	166.0
Area 5	G6M-02-11X	9/26/2003	1.0 U	37	**590**	2.0 U	**31**	2.0 U	5.0 U	-	-	**1,700**	0.005 U	0.005 U	1,200	-	-	-	19	-	6.60	0.921	7.20	0.41	8.6	146.0
Area 5	G6M-02-11X	1/8/2004	1.0 U	49	**300**	2.0 U	**15**	2.0 U	5.0 U	1.0 U	1,000 U	**1,900**	0.005 U	0.0093	2,300	-	150	12 J	5.0 U	2.0 U	6.29	0.729	0.60	0.00	6.6	104.0
Area 5	G6M-02-11X	3/10/2004	1.0 U	53	**160**	2.0 U	**11**	2.0 U	5.0 U	1.0 U	1,000 U	**2,200**	0.005 U	0.068	14,000	-	130	9.6	1.8	2.0 U	6.39	0.847	7.50	0.82	15.6	103.0
Area 5	G6M-02-11X	6/4/2004	1.0 U	54	**440**	2.0 U	**23**	2.0 U	5.0 U	1.0 U	1,000 U	**1,900**	0.005 U	0.010	2,300	-	110	12	2.4 J	1.9 J	6.72	0.807	21.3	12.1	13.7	54.5
Area 5	G6M-02-11X	9/22/2004	1.0 U	**140**	**540**	2.0 U	**50**	2.0 U	5.0 U	1.0 U	1,000 U	**2,400**	0.005 U	0.005 U	13,000	0.5 U	100	12	1.2	1.5 J	6.19	0.996	1.25	0.96	11.1	412.7
Area 5	G6M-02-11X	12/15/2004	1.0 U	**120**	**760**	2.0 U	**47**	2.0 U	5.0 U	1.0 U	1,000 U	**2,100**	0.005 U	0.021	9,700	1.0	95	15	5.0 U	2.0 U	6.35	0.675	21.2	1.36	13.8	200.1
Area 5	G6M-02-11X	3/28/2005	4.0 U	45	**1,100**	40 U	**41**	40 U	5.0 U	1.0 U	1,000 U	**2,200**	0.005 U	0.065	10,000	0.2 U	90	13	3.6 J	2.0 U	6.19	0.938	48.3	1.02	16.0	84.3
Area 5	G6M-02-11X	7/1/2005	10 U	**280**	**1,500**	10 U	**90**	10 U	2.1	1.0 U	1,000 U	**1,800**	0.028	0.42	15,000	0.05 U	98	14	9.4	1.0 U	5.78	0.806	6.66	0.37	14.9	221.6
Area 5	G6M-02-11X	9/27/2005	1.0 U	**260**	**240**	2.0 U	**78**	**16**	5.0 U	1.0 U	1,000 U	**2,500**	0.020 J	8.1	21,000	0.05 U	148	5.9 J	3.4	1.0 U	5.92	0.755	0.69	0.40	13.0	93.6
Area 5	G6M-02-11X	12/12/2005	1.0 U	50	**220**	2.0 U	**28**	**9.1**	7.8	0.2 J	200 J	**3,100**	0.082	29	24,000	1.3 J	270	3.5	5.5	1.0 U	6.28	1.107	8.90	0.18	13.0	64.8
Area 5	G6M-02-11X	3/21/2006	1.0 U	**230**	**520**	2.3	**94**	**60**	5.0 U	0.1 U	100 U	**1,500**	0.025 U	34	17,000	0.2 U	120	8.8	8.2	1.0 U	6.45	0.765	7.15	12.0	14.5	326.6
Area 5	G6M-02-11X	6/22/2006	1.0 U	20	**130**	20	**44**	**9.2**	5.0 U	1.0 U	1,000 U	**6,300**	0.051	78	22,000	0.2 U	210	2.5	6.1	1.0 U	6.19	1.231	5.04	0.27	14.0	59.7
Area 5	G6M-02-11X	9/22/2006	1.0 U	8.6	**37**	2.8	**17**	**4.0**	6.9	0.58	580	**9,300**	0.089	15	21,000	0.2 U	180	4.9	9.8	1.0 U	5.93	1.079	4.55	1.22	13.0	-158.9
Area 5	G6M-02-11X	3/27/2007	1.0 U	3.6	**38**	9.8	**21**	2.0 U	**120**	**7.1**	**7,100**	**24,000 J**	6.8	28	23,000	-	-	-	10	-	6.25	0.912	19.0	0.61	12.6	-39.6
Area 5	G6M-02-11X	6/13/2007	1.0 U	12	**30**	10	**28**	**2.8**	**310**	**6.8**	**6,800**	**18,000**	4.8	33	27,000	-	-	9.6	12	1.6	6.22	1.198	2.10	0.65	11.2	-36.4
Area 5	G6M-02-11X	9/11/2007	1.0 U	7.9	4.4	12	**24**	**4.3**	**420**	**18**	**18,000**	**18,000**	2.8	36	30,000	0.2 U	270	470	14	1.0 U	6.24	1.423	9.70	3.52	11.0	-11.1
Area 5	G6M-02-11X	12/13/2007	1.0 U	6.0 J	2.8 J	5.5 J	**19 J**	**4.4 J**	**470**	**47**	**47,000**	**18,000**	8.3	16	29,000	-	-	5.0 U	15	1.0	6.36	1.409	0.50	0.52	11.8	-117.9
Area 5	G6M-02-11X	3/11/2008	1.0 U	2.5	2.0 U	9.7	**6.2**	2.0 U	**570**	**59**	**59,000**	**27,000**	24	5.8	28,000	-	-	5.0 U	17	2.8	6.35	1.560	0.30	0.41	11.7	-90.5
Area 5	G6M-02-11X	10/16/2008	0.5 U	6.9	1.3	0.80	**7.3**	**2.2**	**1,170**	**116**	**116,000**	**8,420**	1.2 U	5.4	39,000	0.10 U	240	9.3	21	0.03 U	5.80	0.154	4.00	1.51	13.7	-20.6
Area 5	G6M-02-11X	5/7/2009	0.5 U	0.47 J	0.5 U	0.92	0.76	0.5 U	**1,060**	**125**	**125,000**	**3,950**	3.1	3.5	42,000	0.13 U	370 J	17	31	0.03 U	6.04	1.605	0.32	0.24	12.1	-117.5
Area 5	G6M-02-11X	10/14/2009	0.5 U	0.58	0.23 J	0.63	1.4	0.46 J	**1,070**	**126**	**126,000**	**2,390**	1.2 U	1.5 U	55,000	0.13 U	430	9.7	8.7 J	0.03 U	6.46	1.342	5.00	0.52	11.1	-114.9
Area 5	G6M-02-11X	4/20/2010	0.5 U	24	0.5 U	0.24 J	1.6	**5.8**	**1,050**	**106 J**	**106,000 J**	**3,760**	1.2 U	2.0	17,000	0.13 U	500	5.0 U	8.7 J	0.03 U	6.75	0.778	1.50	0.38	11.6	-130.5
Area 5	G6M-02-11X	10/5/2010	0.5 U	0.52	0.5 U	0.38 J	0.94	0.66	**956**	**94**	**93,800**	**1,590**	1.2 U	1.5 U	47,000	0.13 U	700	1.4 J	10 U	0.03 U	6.51	1.368	0.86	0.72	11.6	-136.0
Area 5	G6M-02-11X	10/3/2011	0.5 U	0.64	0.5 U	0.5 U	0.5 U	1.2	**901**	**100**	**99,900**	**2,670**	1.2 U	1.5 U	19,000	0.13 U	520	5.0 U	7.6 J	0.03 U	6.58	1.131	4.53	0.10	11.7	-111.1
Area 5	G6M-02-11X	5/8/2012	-	-	-	-	-	-	**769**	**84**	**84,200**	**2,560**	-	-	-	-	-	-	-	-	6.83	1.014	1.03	0.14	11.6	-128.1
Area 5	G6M-02-11X	10/10/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**683**	**70**	**69,900**	**1,840**	3.9	1.5 U	12,000	0.11 J	390	1.3 J	4.2 J	0.03 U	6.52	1.341	0.84	0.28	12.5	-122.8
Area 5	G6M-02-11X	5/21/2013	-	-	-	-	-	-	**649**	**60**	**59,500**	**3,660**	-	-	-	-	-	-	-	-	6.70	1.247	< 0.01	0.24	18.2	-124.9
Area 5	G6M-02-11X	10/16/2013	0.5 U	0.26 J	0.5 U	0.20 J	0.5 U	0.5 U	**616**	**53**	**53,000**	**3,230**	17	1.6 U	56,000	0.13 U	320	5.0 U	4.2 J	0.03 U	6.80	1.243	0.39	0.22	14.2	-114.8
Area 5	G6M-02-11X	6/11/2014	-	-	-	-	-	-	**573**	**50**	**50,000**	**8,010**	-	-	-	-	-	-	-	-	6.84	1.069	1.38	0.32	13.5	-104.4
Area 5	G6M-02-11X	10/29/2014	0.5 U	0.42 J	0.5 U	0.34 J	0.5 U	0.44 J	**624**	**64 J**	**64,000 J**	**4,860 J**	8.1 J	1.5 U	15,000	0.13 U	340	0.17 J	5.0 U	0.03 U	6.96	1.224	0.65	0.35	12.8	-156.8
Area 5	G6M-02-11X	6/26/2015	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**578**	**51**	**51,100**	**10,800**	5.0 U	5.0 U	8,180	0.17	312	2.0 J	5.8	1.0 U	5.98	0.934	9.20	2.49	12.5	-62.1
Area 5	G6M-02-11X	9/10/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**546**	**44**	**44,400**	**9,920**	5.5 J	10 U	11,500	0.087 J	-	0.78 J	5.3	2.0 U	6.29	0.570	5.37	3.21	14.6	44.2
Area 5	G6M-02-11X	10/15/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**551**	**44**	**44,200**	**10,400**	5.8 J	10 U	9,710	0.062 J	229	10 U	4.9	2.0 U	7.03	0.942	1.12	0.26	14.8	-132.7
Area 5	G6M-02-11X	2/11/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**584**	**46**	**45,900**	**9,880**	10 U	10 U	4,980	0.10 J	219	10 U	5.1	2.0 U	7.02	0.717	2.14	0.60	10.1	-117.2
Area 5	G6M-02-11X	6/15/2016	1.0 U	0.63 J	1.0 U	1.0 U	1.0 U	1.0 U	**550**	**35**	**35,000**	**9,000**	4.6	1.0 U	11,000	0.05 U	250	0.8 U	4.4	1.0 U	6.81	0.861	20.9	2.29	18.2	-130.1
Area 5	G6M-02-11X	11/14/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**530**	**32**	**32,000**	**7,600**	5.6	1.0 U	11,000	0.05 U	220	1.0 U	4.1	1.0 U	7.16	0.632	5.71	0.92	11.8	-127.9
Area 5	G6M-02-11X	10/19/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**530**	**33**	**33,000**	**7,300**	5.2	1.0 U	6,500	0.03 J	190	1.0 U	3.9	1.0 U	6.91	0.816	12.1	0.22	12.1	-115.9
Area 5	G6M-02-11X	10/23/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**480**	**38**	**38,000**	**8,800**	-	-	-	-	-	-	-	-	6.85	1.013	11.2	0.21	11.7	4.2
Area 5	G6M-02-11X	10/15/2019	1.0 U	0.46 J	1.0 U	1.0 U	1.0 U	1.0 U	**500**	**37**	**37,000**	**9,900**	-	-	-	-	-	-	-	-	6.80	1.400	12.0	0.34	12.0	-120.0
Area 5	G6M-02-11X	10/14/2020	1.0 U	0.47 J	1.0 U	1.0 U	0.49 J	1.0 U	**450**	**37**	**37,000**	**10,000**	-	-	-	-	-	-	-	-	7.08	1.070	15.2	0.73	12.9	-127.0
Area 5	G6M-02-11X	10/12/2021	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	**520**	**39**	**39,000**	**8,800**	-	-	-	-	-	-	-	-	6.98	0.917	9.3	0.90	15.1	-129.0
Area 5	G6M-02-11X	10/6/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**610**	**40**	**40,000**	**9,200**	-	-	-	-	-	-	-	-	6.80	1.361	3.9	0.66	12.1	-141.2
Area 5	G6M-02-11X	10/17/2023	1.0 U	0.25 J	1.0 U	1.0 U	0.5 U	1.0 U	**680**	**35**	**35,000**	**5,700**	-	-	-	-	-	-	-	-	6.90	0.753	3.2	0.41	12.1	-140.9
Area 5	G6M-02-11X	11/7/2024	1.0 U	0.94 J	1.0 U	0.53 J	0.5 U	1.0 U	**560**	**36**	**36,000**	**4,600**	-	-	-	-	-	-	-	-	6.81	0.45	3.97	1.21	13.1	-109
Area 5	G6M-02-12X	8/1/2002	1.0 U	2.0 U	**330**	2.0 U	2.0 U	2.0 U	5.0 U	-	-	-	-	-	-	-	-	-	-	-	6.24	0.924	37.6	0.64	14.0	19.0
Area 5	G6M-02-12X	8/28/2002	1.0 U	2.0 U	**520**	2.0 U	**6.5**	2.0 U	5.0 U	-	-	-	-	-	-	-	54	-	5.0 U	-	6.15	0.868	2.96	0.19	14.1	156.0
Area 5	G6M-02-12X	10/29/2002	1.0 U	2.0 U	**790**	2.0 U	**10**	2.0 U	5.0 U	1.0 U	1,000 U	1,100	-	-	-	0.10 U	40	17	2.0 J	2.0 U	6.14	0.927	2.08	0.27	14.8	68.0
Area 5	G6M-02-12X	2/3/2003	1.0 U	2.0 U	**580**	2.0 U	4.0	2.0 U	5.0 U	1.0 U	1,000 U	-	-	-	-	-	52	-	5.0 U	-	6.04	0.947	5.06	-	12.5	78.0
Area 5	G6M-02-12X	7/14/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-	11.0	-
Area 5	G6M-02-12X	9/22/2004	1.0 U	**110**	**1,000**	2.0 U	**43**	2.0 U	5.0 U	1.0 U	1,000 U	450	0.005 U	0.005 U	2,900	0.5 U	84	13	1.0 U	2.0 U	5.87	0.873	4.95	0.35	11.6	570.2
Area 5	G6M-02-12X	9/27/2005	1.0 U	**250**	**1,100**	1.4	**38**	**5.4**	5.0 U	1.0 U	1,000 U	690	0.025 U	1.1	14,000	0.05 U	106	13 J	3.5	1.0 U	6.11	6.920	24.5	1.17	11.7	238.5
Area 5	G6M-02-12X	9/21/2006	1.0 U	64	**190**	23	**88**	**67**	5.0 U	0.37	370	**3,200**	0.038	46	15,000	0.2 U	170	5.7	7.6	1.0 U	6.23	0.799	60.6	0.17	11.7	78.0
Area 5	G6M-02-12X	12/13/2006	1.0 U	3.6	**45**	4.4	**7.9**	2.0 U	**22**	1.0	1,000	**16,000**	0.24	19	28,000	-	-	1.1	9.3	1.2	6.39	1.277	6.94	0.19	13.7	169.6
Area 5	G6M-02-12X	9/12/2007	1.0 U	28	**62**	4.4	**50**	**18**	20 U	0.58	580	**5,500**	0.40	8.4	11,000	0.2 U	180	340	2.6 J	1.0	6.52	0.934	5.80	3.06	11.8	52.8
Area 5	G6M-02-12X	10/16/2008	0.5 U	18	0.37 J	1.6	**7.1**	**4.8**	**174**	**12**	**11,800**	**15,800**	1.2 U	3.1	19,000	0.10 U	310	7.0 U	10 U	0.03 U	6.09	1.091	10.0	0.53	11.7	-67.4
Area 5	G6M-02-12X	10/14/2009	0.5 U	13	0.5 U	0.74	0.30 J	1.6	**540**	**24**	**24,400**	**11,000**	1.3 U	1.6 U	6,900	0.13 U	350	7.0 U	4.6 J	0.03 U	6.27	1.025	1.50	1.27	19.7	-40.0
Area 5	G6M-02-12X	10/5/2010	0.5 U	5.6	0.5 U	0.27 J	0.5 U	1.5	**1,040**	**72**	**72,200**	**13,700**	1.2 U	2.0	40,000	0.05 J	810	2.8 J	10 U	0.03 U	6.34	1.217	1.11	0.58	17.1	-88.1
Area 5	G6M-02-12X	10/4/2011	0.5 U	6.3	0.5 U	0.5 U	0.5 U	**4.3**	**1,020**	**71**	**71,200**	**9,540**	1.2 U	1.5 U	21,000	0.13 U	440	0.33 J	6.4 J	0.03 U	6.65	0.807	1.90	0.48	13.1	-89.1
Area 5	G6M-02-12X	10/10/2012	0.5 U	1.0	0.5 U	0.5 U	0.5 U	1.0	**865**	**66**	**65,800**	**5,010**	1.8	1.5 U	14,000	0.13 U	320	0.59 J	4.0 J	0.03 U	6.76	1.068	1.68	0.70	14.4	-111.4
Area 5	G6M-02-12X	10/16/2013	0.5 U	0.72	0.5 U	0.21 J	0.5 U	0.54	**809**	**61**	**61,300**	**4,910**	10	1.5 U	55,000	0.13 U	83	5.0 U	4.2 J	0.03 U	6.85	1.010	1.87	0.45	21.3	-127.7
Area 5	G6M-02-12X	10/29/2014	0.5 U	0.90	0.5 U	0.56	0.5 U	0.79	**760**	**56 J**	**56,000 J**	**4,870 J**	9.2	1.5 U	25,000	0.13 U	330	0.22 J	6.2 J	0.03 U	6.96	0.995	2.48	0.83	15.5	-103.4
Area 5	G6M-02-12X	10/15/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**714**	**43**	**42,600**	**8,540**	10 U	10 U	11,300	0.11 U	243	10 U	6.4	2.0 U	7.26	0.630	6.17	1.07	13.7	-108.0
Area 5	G6M-02-12X	11/14/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**720**	**40**	**40,000**	**7,700**	3.2	1.0 U	9,400	0.05 U	210	2.0	4.5	1.0 U	6.90	0.530	13.9	1.24	11.9	-131.0
Area 5	G6M-02-12X	10/23/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**670**	**41**	**41,000**	**8,100**	4.0	1.0 U	8,000	0.055 J	200	1.0 U	4.3	1.0 U	6.90	0.678	7.49	0.29	12.2	-117.9

Appendix D
Historical Groundwater Analytical Results
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 5	G6M-02-12X	10/23/2018	1.0 U	1.0 U	1.0 U	0.39 J	1.0 U	1.0 U	**590**	**40**	**40,000**	**7,800**	-	-	-	-	-	-	-	-	7.02	0.731	18.9	0.49	11.4	-16.1
Area 5	G6M-02-12X	10/15/2020	1.0 U	0.42 J	1.0 U	1.0 U	1.0 U	1.0 U	**530**	**44**	**44,000**	**8,100**	-	-	-	-	-	-	-	-	6.95	0.871	2.03	0.62	12.1	-137.0
Area 5	G6M-02-12X	10/12/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**660**	**39**	**39,000**	**6,900**	-	-	-	-	-	-	-	-	7.38	1.066	20.18	1.03	12.3	-137.3
Area 5	G6M-02-12X	11/8/2024	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**610**	**32**	**32,000**	**4,700**	-	-	-	-	-	-	-	-	6.98	0.53	0.73	0.91	14.7	-125
Area 5	G6M-03-08X	5/14/2003	1.0 U	2.0 U	**750**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	-	-	-	-	-	-	-	-	-	-	-	-	-	13.3	-
Area 5	G6M-03-08X	9/22/2004	1.0 U	5.4	**690**	2.0 U	**6.3**	2.0 U	5.0 U	1.0 U	1,000 U	15 U	0.005 U	0.005 U	1.8	8.3	16	13	1.0 U	1.5 J	5.89	0.463	3.22	1.81	14.1	247.6
Area 5	G6M-03-08X	12/16/2004	1.0 U	9.6	**1,100**	2.0 U	**11**	2.0 U	5.0 U	1.0 U	1,000 U	17	0.069	0.030	4.7	5.7	20	13	5.0 U	2.9	5.93	0.495	8.98	0.70	13.3	135.7
Area 5	G6M-03-08X	3/31/2005	20 U	9.6 J	**340**	20 U	20 U	20 U	5.0 U	1.0 U	1,000 U	15 U	0.011	0.45	14	2.3	12	17	0.3 J	2.0 U	5.94	0.205	0.93	1.96	12.8	166.3
Area 5	G6M-03-08X	7/6/2005	1.0 U	15	**780**	2.0 U	**8.2**	2.0 U	4.0 U	1.0 U	1,000 U	10 U	0.11	0.068	410	1.8	29	14	5.5	1.0 U	5.85	0.463	5.37	0.78	13.4	236.1
Area 5	G6M-03-08X	9/28/2005	1.0 U	14	**620**	1.0 U	4.8	1.0 U	5.0 U	1.0 U	1,000 U	15 U	0.025 U	0.009 J	2,400	1.6	28	12	5.0 U	1.0 U	5.60	0.352	8.30	3.56	10.8	172.3
Area 5	G6M-03-08X	12/14/2005	1.0 U	17	**700**	2.0 U	**8.0**	2.0 U	5.0 U	1.0 U	1,000 U	15 U	0.025 U	0.025 U	7,000	1.2	32	12	5.0 U	1.0 U	6.16	0.404	3.70	0.54	11.5	153.8
Area 5	G6M-03-08X	3/22/2006	1.0 U	34	**1,100**	2.6	**21 J**	2.0 U	5.0 U	0.1 U	100 U	15 U	0.025 U	0.006 J	12,000	0.59	29	12	6.5	1.0 U	6.28	0.299	9.75	5.43	10.7	394.2
Area 5	G6M-03-08X	6/21/2006	1.0 U	48	**610**	2.0 U	**16**	2.0 U	5.0 U	1.8	1,800	42	0.004 J	0.14	16,000	0.33	41J	10	5.0 U	1.0 U	5.91	0.490	21.4	0.29	10.6	141.6
Area 5	G6M-03-08X	3/29/2007	1.0 U	**74**	**570**	2.0 U	**37**	**11**	5.0 U	0.1 U	100 U	15 U	0.006 J	0.72	14,000	-	-	-	5.0 U	-	5.79	0.392	1.41	0.07	11.6	21.3
Area 5	G6M-03-08X	6/12/2007	1.0 U	**88**	**740**	2.0 U	**55**	**14**	5.0 U	0.1 U	100 U	15 U	0.025 U	0.70	15,000	-	-	-	0.6 J	-	5.93	0.413	41.3	0.25	10.2	135.2
Area 5	G6M-03-08X	9/10/2007	1.0 U	**75**	**520**	2.0 U	**75**	**21**	2.0 U	0.1 U	100 U	15 U	0.025 U	1.7	14,000	0.2 U	42	200	5.0 U	1.0 U	5.92	0.385	9.70	2.55	11.4	154.2
Area 5	G6M-03-08X	12/11/2007	1.0 U	49	**390**	2.0 U	**53**	**15**	5.0 U	0.1 U	100 U	20	0.004 J	1.6	15,000	-	-	-	5.0 U	-	5.76	0.437	0.80	0.23	11.1	129.3
Area 5	G6M-03-08X	3/13/2008	1.0 U	10	**390**	2.0 U	5.0	2.0 U	5.0 U	0.1 U	100 U	20	0.003 J	0.051	2,800	-	-	-	5.0 U	-	5.89	0.195	0.30	0.22	11.6	111.6
Area 5	G6M-03-08X	10/20/2008	5.0 U	**140**	**290**	5.0 U	**61**	**26**	8.0 U	0.2 U	200 U	33	1.3 U	2.1	21,000	0.13 U	110	14	10 U	0.03 U	6.42	0.548	2.00	1.58	12.1	68.9
Area 5	G6M-03-08X	5/6/2009	4.0 U	**150**	**120**	4.0 U	**38**	**15**	3.1 J	0.2 U	200 U	144	1.2 U	1.6	37,000	0.13 U	190 J	10	10 U	0.03 U	5.93	0.701	1.50	0.32	13.2	100.8
Area 5	G6M-03-08X	10/14/2009	5.0 U	**120**	5.0 U	5.0 U	**20**	**11**	8.0 U	0.139 U	139 U	**1,470**	1.3 U	1.6 U	7,300 J	0.13 U	240	8.3	10 U	0.03 U	5.91	0.643	2.11	0.33	-	152.3
Area 5	G6M-03-08X	4/20/2010	2.0 U	**88 J**	**26 J**	2.0 U	**9.9 J**	1.5 J	9.0	0.194 U	194 U	**6,520**	1.3 U	1.6 U	3,500	0.13 U	250	7.8	10 U	0.03 U	6.31	0.382	0.30	0.90	14.3	87.9
Area 5	G6M-03-08X	10/4/2010	2.0 U	**80**	**8.2**	2.0 U	**5.2**	**3.5**	3.4 J	0.132 U	132 U	**11,300**	1.2 U	1.5 U	890	0.13 U	360	5.5	10 U	0.03 U	6.07	0.549	< 0.01	0.68	10.2	84.9
Area 5	G6M-03-08X	6/8/2011	-	-	-	-	-	-	**14**	0.27	266	**16,100**	-	-	-	-	-	-	-	-	6.28	0.686	0.50	0.21	11.3	49.5
Area 5	G6M-03-08X	10/3/2011	2.5 U	62	4.3	2.5 U	3.4	**9.6**	5.1 J	0.194 J	194 J	**16,800**	1.2 U	1.5 U	590	0.13 U	360	3.2 J	10 U	0.03 U	6.17	0.603	0.51	0.43	15.2	77.2
Area 5	G6M-03-08X	5/8/2012	-	-	-	-	-	-	5.0 U	0.127 U	127 U	**17,700**	-	-	-	-	-	-	-	-	6.58	0.618	0.55	1.87	13.1	39.7
Area 5	G6M-03-08X	10/9/2012	0.5 U	9.8	0.5 U	0.76	0.78	**7.4**	5.0 U	0.15	152	**18,600**	1.3 U	3.6	110	0.13 U	380	1.4 J	2.5 J	0.03 U	6.34	0.648	1.42	0.43	11.9	53.9
Area 5	G6M-03-08X	5/22/2013	-	-	-	-	-	-	3.1 J	0.117 U	117 U	**12,500**	-	-	-	-	-	-	-	-	6.56	0.591	0.14	1.40	11.9	36.5
Area 5	G6M-03-08X	10/15/2013	0.5 U	2.8	0.5 U	1.2	0.87	1.6	5.2	0.121 U	121 U	**12,300**	1.8	1.5 U	360	0.13 U	450	5.0 U	3.0 J	0.03 U	6.57	0.851	< 0.01	0.39	16.0	82.7
Area 5	G6M-03-08X	6/12/2014	-	-	-	-	-	-	4.3 J	0.15	152	**9,850**	-	-	-	-	-	-	-	-	6.57	0.592	6.31	1.84	13.0	58.9
Area 5	G6M-03-08X	6/18/2015	0.5 U	0.5 U	0.5 U	0.5 U	0.51 J	0.5 U	2.5 J	0.05 U	50 U	**2,320**	5.0 U	5.0 U	5.0 U	0.11 U	83	8.4 J	5.4	1.0 U	6.32	0.273	8.42	1.11	13.2	113.0
Area 5	G6M-03-08X	10/14/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Area 5	G6M-03-08X	2/24/2016	1.0 U	3.0	1.0 U	1.0 U	1.0 U	1.0 U	8.2	1.0	1,030	**4,710**	10 U	10 U	91	0.10 U	155	3.1 J	1.8	2.0 U	6.79	0.244	3.93	1.03	7.5	-54.7
Area 5	G6M-03-08X	11/14/2016	1.0 U	0.84 J	1.0 U	1.0 U	0.96 J	1.0 U	**12**	0.18	180	**4,200**	1.1 U	1.0 U	170	0.053 J	140	9.8	1.3	1.0 U	7.03	0.339	7.46	1.19	8.3	-99.6
Area 5	G6M-03-08X	10/4/2017	1.0 U	0.50 J	1.0 U	1.0 U	1.0 U	1.0 U	6.6	0.23	230	**6,900**	1.1 U	0.90 J	91	0.05 U	110	9.5	0.84 J	1.0 U	6.70	0.374	5.94	0.65	13.3	-29.9
Area 5	G6M-03-08X	10/31/2018	1.0 U	0.60 J	1.0 U	1.0 U	1.0 U	1.0 U	8.6	0.27	270	**7,300**	-	-	-	-	-	-	-	-	6.67	0.478	25.0	1.69	10.8	30.9
Area 5	G6M-03-08X	10/22/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**87**	1.6	1,600	**7,800**	-	-	-	-	-	-	-	-	6.85	0.391	20.4	0.75	12.4	-20.0
Area 5	G6M-03-08X	10/10/2022	1.0 U	0.34 J	1.0 U	1.0 U	0.5 U	1.0 U	**270**	2.6	2,600	**8,800**	-	-	-	-	-	-	-	-	6.83	0.725	3.51	2.59	13.3	-55.3
Area 5	G6M-03-08X	11/8/2024	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**530**	**9.2**	**9,200**	**9,000**	-	-	-	-	-	-	-	-	6.93	0.37	0	1.29	12.3	-86.4
Area 5	G6M-03-09X	5/14/2003	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	-	-	-	-	-	-	-	-	-	-	-	-	-	13.3	-
Area 5	G6M-03-09X	9/23/2004	1.0 U	2.0 U	3.7	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	0.005 U	0.005 U	1.9	19	23	15	1.0 U	2.2	6.23	0.130	4.57	8.67	13.2	176.2
Area 5	G6M-03-09X	12/14/2004	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	0.015	0.026	2.0	11	25	15	5.0 U	2.0 U	6.08	0.106	12.1	8.17	12.4	417.6
Area 5	G6M-03-09X	3/29/2005	1.0 U	2.0 U	1.5 J	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	0.013	0.26	1.4	1.5	18	13	0.3 J	2.0 U	6.18	0.123	72.4	6.00	13.3	113.2
Area 5	G6M-03-09X	6/30/2005	1.0 U	2.0 U	**5.8**	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1,000 U	10 U	0.077	0.032	1.2	1.3	25	13	15	1.0 U	5.75	0.135	53.6	2.81	10.2	160.2
Area 5	G6M-03-09X	9/28/2005	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	0.006 J	0.009 J	29	3.7	38	13	4.0 J	1.0 U	5.90	0.108	7.60	10.6	11.2	181.0
Area 5	G6M-03-09X	12/13/2005	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	0.005 J	0.014 J	790	0.05 U	53	13	5.0 U	1.0 U	6.21	1.720	4.90	3.06	10.6	259.3
Area 5	G6M-03-09X	3/22/2006	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	20	0.006 J	0.016 J	39	1.8	36	12	7.9	1.0 U	6.40	0.102	10.8	3.00	11.0	415.5
Area 5	G6M-03-09X	6/23/2006	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.025 U	0.042	390	2.7	39	13	5.0 U	1.0 U	5.92	0.156	16.9	4.55	11.0	164.9
Area 5	G6M-03-09X	9/21/2006	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.014 J	0.12	140	2.5	36	9.2	0.80 J	1.0 U	6.71	0.212	4.56	2.24	13.8	127.6
Area 5	G6M-03-09X	3/29/2007	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.006 J	0.032	1,600	-	-	-	1.8 J	-	6.08	0.217	2.45	0.16	10.6	16.4
Area 5	G6M-03-09X	6/13/2007	1.0 U	2.0 U	3.8	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.005 J	0.011 J	870	-	-	-	0.5 J	-	6.26	0.154	7.60	0.36	11.4	111.0
Area 5	G6M-03-09X	9/10/2007	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	6.0 U	0.1 U	100 U	15 U	0.025 U	0.025 U	18,000	2.0	53	20	5.0 U	1.0 U	6.26	0.193	9.90	2.74	11.1	128.0
Area 5	G6M-03-09X	12/11/2007	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.006 J	0.022 J	2,200	-	-	-	5.0 U	-	6.03	0.190	2.10	0.11	11.4	110.3
Area 5	G6M-03-09X	3/12/2008	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.11	110	18	0.027	0.016 J	5,200	-	-	-	5.0 U	-	6.33	0.159	0.50	0.24	11.5	24.6
Area 5	G6M-03-09X	10/20/2008	0.5 U	0.5 U	0.37 J	0.5 U	0.5 U	0.5 U	8.0 U	0.2 U	200 U	50 U	1.3 U	1.6 U	1,600	0.84	48	19	10 U	0.03 U	5.98	0.129	6.50	0.24	11.3	177.8
Area 5	G6M-03-09X	5/6/2009	0.5 U	0.5 U	0.78	0.5 U	0.5 U	0.5 U	8.0 U	0.2 U	200 U	50 U	1.2 U	1.5 U	340	0.90	52 J	14	10 U	0.03 U	5.99	0.171	1.00	0.33	11.4	104.0
Area 5	G6M-03-09X	10/14/2009	0.5 U	0.5 U	0.35 J	0.5 U	0.5 U	0.5 U	8.0 U	0.2 U	200 U	50 U	1.2 U	1.5 U	230	0.32	53	13	10 U	0.03 U	5.49	0.161	< 0.01	0.26	-	-89.9
Area 5	G6M-03-09X	4/20/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	25 U	1.3 U	1.6 U	700	0.13 U	90	12	10 U	0.03 U	6.19	0.102	0.60	0.40	15.4	166.0
Area 5	G6M-03-09X	10/4/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	25 U	1.2 U	1.5 U	35 J	0.86	44	12	10 U	0.03 U	5.90	0.159	0.60	1.18	12.1	146.6
Area 5	G6M-03-09X	6/8/2011	-	-	-	-	-	-	5.0 U	1.7	1,680	11 J	-	-	-	-	-	-	-	-	5.99	0.154	0.40	0.42	11.1	122.8
Area 5	G6M-03-09X	10/3/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.2 U	200 U	50 U	1.2 U	1.5 U	230	0.39	35	11	10 U	0.03 U	5.82	0.107	0.23	0.61	16.6	163.2
Area 5	G6M-03-09X	5/8/2012	-	-	-	-	-	-	5.0 U	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	6.12	0.095	0.71	2.27	13.4	186.4
Area 5	G6M-03-09X	10/9/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	6.2 J	1.3 U	1.6 U	2.6	2.8	25	8.9	10 U	0.03 U	5.71	0.136	0.58	4.36	12.1	167.9
Area 5	G6M-03-09X	5/22/2013	-	-	-	-	-	-	5.0 U	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	6.01	0.084	1.83	0.46	13.9	172.9
Area 5	G6M-03-09X	10/15/2013	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	9.6 J	1.2 U	1.5 U	7,600	0.82	29	10	10 U	0.03 U	6.08	0.144	< 0.01	1.16	16.0	150.3
Area 5	G6M-03-09X	6/12/2014	-	-	-	-	-	-	5.0 U	0.021 J	21 J	7.4 J	-	-	-	-	-	-	-	-	5.89	0.102	2.49	0.54	14.1	163.9
Area 5	G6M-03-09X	10/28/2014	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.268 J	268 J	13 J	1.4	1.5 U	20	1.6	35	11	5.0 U	0.03 U	6.24	0.139	2.78	1.65	13.6	124.1
Area 5	G6M-03-09X	6/18/2015	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U	0.05 U	50 U	20	5.0 U	5.0 U	30	0.057 U	27	8.6 J	0.70 U	1.0 U	5.39	0.191	2.25	0.45	11.4	169.7
Area 5	G6M-03-09X	10/15/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	0.1 U	100 U	57	10 U	10 U	1,090	0.11 U	28	11	1.0 U	2.0 U	6.06	0.144	0.81	0.22	15.7	123.1
Area 5	G6M-03-09X	2/19/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	0.1 U	100 U	100	14	6.4 J	270	0.19	37	11	1.0 U	2.0 U	8.64	0.100	3.99	2.29	9.6	513.6
Area 5	G6M-03-09X	6/16/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	81	1.1 U	1.0 U	8.8	0.05 U	43	16	0.78 J	1.0 U	6.02	0.220	3.32	1.80	11.8	131.6

Appendix D
Historical Groundwater Analytical Results
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 5	G6M-03-09X	11/14/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	90	1.1 U	1.0 U	0.58 U	1.5	31	8.4	0.78 J	1.0 U	6.23	0.119	4.19	1.27	9.4	8.0
Area 5	G6M-03-09X	10/17/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.075 U	75 U	180	1.1 U	1.0 U	0.48 J	1.7	24	11	1.0 U	1.0 U	6.10	0.158	3.92	2.03	10.7	143.1
Area 5	G6M-03-10X	5/14/2003	1.0 U	2.0 U	**15**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	-	-	-	-	-	-	-	-	-	-	-	-	-	14.2	-
Area 5	G6M-03-10X	9/22/2004	1.0 U	2.0 U	**27**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	340	0.050	0.68	680	2.8	51	12	1.0 U	1.5 J	6.28	0.539	20.5	1.28	13.1	-77.2
Area 5	G6M-03-10X	12/14/2004	1.0 U	44	**19**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	880	0.020	0.025	1.9	3.8	110	21	5.0 U	2.0 U	6.52	0.801	1.57	0.94	13.9	62.0
Area 5	G6M-03-10X	3/29/2005	1.0 U	68	**14**	1.2 J	0.98 J	2.0 U	5.0 U	1.0 U	1,000 U	1,200	0.005 U	0.38	2,600	0.2 U	146	12	5.9	2.0 U	6.44	0.869	6.77	0.59	11.8	-14.5
Area 5	G6M-03-10X	6/30/2005	1.0 U	2.0 U	3.6	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1,000 U	**1,900**	0.026	0.021	8,600	0.10	199	11	19	1.0 U	5.18	0.702	5.06	0.39	12.5	273.2
Area 5	G6M-03-10X	9/28/2005	1.0 U	2.0 U	**6.7**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	720	0.025 U	0.020 J	1,100	0.20	140	16	0.6 J	1.0 U	6.43	0.588	7.36	4.30	11.3	74.1
Area 5	G6M-03-10X	12/13/2005	1.0 U	2.0 U	3.4	2.0 U	2.0 U	2.0 U	6.9	1.0 U	1,000 U	**3,020**	0.009 J	0.027	12,000	0.48	250	8.4	5.0 U	1.0 U	6.73	1.032	1.30	0.15	12.3	57.2
Area 5	G6M-03-10X	3/23/2006	1.0 U	2.0 U	**9.9**	2.0 U	2.0 U	2.0 U	5.0 U	0.22	220	**3,800**	0.020 J	0.052	7,000	0.2 U	170	8.9	3.5 J	1.0 U	6.64	0.663	5.39	0.67	12.2	36.6
Area 5	G6M-03-10X	6/22/2006	1.0 U	2.0 U	2.6	2.0 U	2.0 U	2.0 U	5.0 U	0.74	740	**7,300**	0.004 J	0.042	14,000	0.2 U	200	4.4	5.0 J	1.0 U	4.87	0.770	0.64	0.64	14.0	610.8
Area 5	G6M-03-10X	9/20/2006	1.0 U	2.0 U	2.2	2.0 U	2.0 U	2.0 U	5.0 U	0.21	210	**6,200**	0.006 J	0.14	14,000	0.2 U	180	7.0	6.0	1.0 U	6.41	0.856	3.90	1.26	12.3	-140.2
Area 5	G6M-03-10X	3/29/2007	1.0 U	4.2	2.2	2.0 U	2.1	2.0 U	8.6	0.30	300	**9,100 J**	0.007 J	0.16	24,000	-	-	-	4.8 J	-	6.20	0.970	2.99	0.32	12.1	-60.7
Area 5	G6M-03-10X	6/11/2007	1.0 U	4.1	2.5	2.0 U	2.0 U	2.0 U	**23**	1.0	1,000	**11,000**	0.025 U	0.095	29,000	-	-	-	6.7	-	6.27	0.947	8.50	0.41	11.6	45.5
Area 5	G6M-03-10X	9/10/2007	1.0 U	3.8	2.0 U	2.0 U	2.0 U	2.0 U	**29**	0.40	400	**8,100**	0.10	0.057	620	0.2 U	150	290	3.5 J	1.0 U	6.28	0.859	13.6	0.24	12.3	61.3
Area 5	G6M-03-10X	12/12/2007	1.0 U	2.8	2.0 U	2.0 U	2.0 U	2.0 U	**26**	0.33	330	**9,200**	0.025 U	0.043	20,000	-	-	-	5.8	-	6.14	0.755	7.50	0.66	12.5	69.8
Area 5	G6M-03-10X	3/11/2008	1.0 U	16	**16**	2.0 U	**8.7**	**4.0**	**91**	**15**	**15,000**	**9,200**	0.040	59	28,000	-	-	-	5.0 J	-	6.32	1.029	7.30	0.22	11.7	-62.9
Area 5	G6M-03-10X	10/20/2008	0.5 U	5.4	1.0	0.5 U	2.0	1.0	**248**	**7.1**	**7,070**	**10,300**	1.3 U	1.6 U	21,000	0.13 U	170	8.3	170	0.03 U	5.98	0.781	8.20	0.21	18.1	-10.9
Area 5	G6M-03-10X	5/6/2009	0.5 U	9.1	1.0	0.5 U	5.0	1.5	**522**	**54**	**54,400**	**9,210**	1.2 U	1.5 U	31,000	0.0076 J	230 J	9.3	11	0.03 U	5.91	1.040	0.50	0.33	18.6	-64.0
Area 5	G6M-03-10X	10/14/2009	0.5 U	10	0.61	0.5 U	3.7	**2.2**	**518**	**58**	**57,800**	**7,410**	1.3 U	1.6 U	9,000 J	0.13 U	310	21	7.4 J	0.03 U	6.32	0.896	1.20	0.67	19.1	-62.2
Area 5	G6M-03-10X	4/20/2010	0.5 U	2.0	1.2	0.21 J	**5.6**	1.1	**648**	**61 J**	**61,000 J**	**4,910**	1.2 U	1.5 U	4,100	0.13 U	130	6.5	4.7 J	0.03 U	6.78	0.799	1.40	0.77	16.3	-101.1
Area 5	G6M-03-10X	10/4/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**475**	**58**	**58,100**	**5,650**	1.2 U	6.2	20,000	0.13 U	230	5.9	10 U	0.03 U	6.52	0.729	0.50	0.22	11.3	-115.6
Area 5	G6M-03-10X	6/9/2011	-	-	-	-	-	-	**520**	**54**	**53,900**	**2,550**	-	-	-	-	-	-	-	-	6.74	0.704	4.62	0.58	12.1	-118.8
Area 5	G6M-03-10X	10/3/2011	0.5 U	1.2	0.5 U	0.5 U	2.7	0.53	**528**	**55**	**54,500**	**3,980**	1.2 U	1.5 U	9,800	0.21	100	7.6	3.0 J	0.03 U	6.75	0.633	0.85	0.10	12.3	-85.8
Area 5	G6M-03-10X	5/8/2012	-	-	-	-	-	-	**480**	**56**	**56,000**	**4,070**	-	-	-	-	-	-	-	-	7.00	0.817	0.77	0.15	13.0	-119.1
Area 5	G6M-03-10X	10/9/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.55	0.5 U	**456**	**48**	**47,500**	**2,280**	22	1.6 U	13,000	0.13 U	100	8.4	10 U	0.03 U	6.88	0.940	< 0.01	0.43	12.1	-109.6
Area 5	G6M-03-10X	5/22/2013	-	-	-	-	-	-	**514**	**57**	**57,100**	**2,340**	-	-	-	-	-	-	-	-	6.80	1.111	0.40	0.16	12.0	-137.6
Area 5	G6M-03-10X	10/15/2013	0.5 U	0.52	0.5 U	0.5 U	0.68	0.5 U	**452**	**51**	**50,600**	**2,770**	1.8	1.5 U	23,000	0.042 U	80	9.2	10 U	0.03 U	6.87	1.018	0.19	4.57	12.2	-122.7
Area 5	G6M-03-10X	6/12/2014	-	-	-	-	-	-	**510**	**52**	**51,900**	**2,400**	-	-	-	-	-	-	-	-	6.82	0.857	> 5,000	0.51	22.1	-88.0
Area 5	G6M-03-10X	10/29/2014	0.5 U	0.92	0.5 U	0.5 U	0.77	0.41 J	**418**	**43 J**	**43,000 J**	3,090 J	1.2 U	1.5 U	14,000	0.13 U	92	8.6	5.0 U	0.03 U	7.02	0.787	4.94	0.29	19.6	-122.4
Area 5	G6M-03-10X	9/10/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**453**	**68**	**68,100**	**2,020**	10 U	10 U	8,910	0.08 J	-	11	1.5	2.0 U	6.56	0.787	3.00	0.51	12.6	-107.5
Area 5	G6M-03-10X	10/15/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**457**	**69**	**69,300**	**2,410**	10 U	10 U	11,500	0.11 U	65	7.8 J	1.9	2.0 U	7.03	1.206	1.74	0.49	19.3	-128.0
Area 5	G6M-03-10X	2/11/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**492**	**72**	**72,000**	**2,370**	10 U	10 U	7,550	0.11	105	2.0 J	3.3	2.0 U	7.02	1.345	0.10	0.40	10.0	-131.1
Area 5	G6M-03-10X	6/16/2016	1.0 U	1.0 U	**16**	1.0 U	0.65 J	1.0 U	**400**	**61**	**61,000**	**1,600**	1.1 U	1.0 U	14,000	0.05 U	88	3.3	1.8	1.0 U	6.18	1.407	8.39	1.16	13.1	-86.0
Area 5	G6M-03-10X	11/14/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**430**	**68**	**68,000**	**2,700**	1.1 U	1.0 U	8,000	0.05 U	110	3.7	1.6	1.0 U	7.11	0.745	6.94	11.7	7.4	-101.7
Area 5	G6M-03-10X	10/23/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**420**	**62**	**62,000**	**2,100**	1.1 U	1.0 U	6,500	0.07 J	62	5.5	1.4	1.0 U	6.88	1.190	3.99	0.22	12.2	-115.0
Area 5	G6M-03-10X	10/23/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**380**	**51**	**51,000**	**1,900**	-	-	-	-	-	-	-	-	6.93	1.576	3.98	0.14	11.6	-30.2
Area 5	G6M-03-10X	10/15/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**360**	**45**	**45,000**	**2,100**	-	-	-	-	-	-	-	-	6.80	1.500	1.20	0.31	12.0	-140.0
Area 5	G6M-03-10X	10/22/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**360**	**59**	**59,000**	**2,000**	-	-	-	-	-	-	-	-	6.94	0.853	11.3	0.66	12.4	-128.0
Area 5	G6M-03-10X	10/12/2021	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	**290**	**44**	**44,000**	**1,900**	-	-	-	-	-	-	-	-	6.94	1.070	24.7	1.10	13.7	-118.0
Area 5	G6M-03-10X	10/6/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**370**	**48**	**48,000**	**2,000**	-	-	-	-	-	-	-	-	6.81	1.426	3.87	0.66	12.6	-145.0
Area 5	G6M-03-10X	10/17/2023	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**310**	**43**	**43,000**	1,300	-	-	-	-	-	-	-	-	6.93	0.976	2.85	0.42	12.1	-130.0
Area 5	G6M-03-10X	11/13/2024	1.0 U	1.0 U	1.0 U	1.0 U	0.23 J	1.0 U	**230**	**33**	**33,000**	800	-	-	-	-	-	-	-	-	6.86	0.62	4.12	1.3	10.9	-97.1
Area 5	G6M-04-05X	9/22/2004	1.0 U	2.0 U	**140**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	0.005 U	0.0092	1.3	4.9	14	14	1.0 U	2.0 U	6.10	0.099	0.68	9.68	11.3	233.9
Area 5	G6M-04-05X	12/15/2004	1.0 U	2.0 U	**17**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	0.005 U	0.016	1.4	7.5	14	13	5.0 U	2.0 U	5.87	0.098	1.04	1.17	11.4	228.7
Area 5	G6M-04-05X	3/30/2005	5.0 U	10 U	**130**	10 U	10U	10 U	5.0 U	1.0 U	1,000 U	15 U	0.007	0.028	15	1.2	14	10	0.5 J	2.0 U	6.04	0.093	1.92	2.80	11.8	123.1
Area 5	G6M-04-05X	6/30/2005	1.0 U	2.0 U	**200**	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1,000 U	10 U	0.041	0.022	96	0.87	16	8.9	2.4	1.0 U	5.48	0.094	8.19	0.88	11.5	207.1
Area 5	G6M-04-05X	9/29/2005	1.0 U	2.0 U	**110**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	33	0.006 J	0.012 J	220	0.98	3.3	14	5.0 U	1.0 U	6.08	0.061	2.10	0.20	10.5	215.3
Area 5	G6M-04-05X	12/14/2005	1.0 U	2.0 U	**36**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	0.007 J	0.016 J	550	1.6	21	11	5.0 U	1.0 U	6.10	0.091	0.30	0.23	11.3	179.3
Area 5	G6M-04-05X	3/22/2006	1.0 U	2.0 U	**330**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.025 U	0.019 J	2,200	1.1	13	9.3	3.4 J	1.0 U	6.21	0.062	0.86	0.77	11.1	343.3
Area 5	G6M-04-05X	6/22/2006	1.0 U	2.0 U	**38**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.025 U	0.082	33	1.8	22 J	9.0	5.0 U	1.0 U	4.40	0.083	< 0.01	2.55	11.6	760.6
Area 5	G6M-04-05X	9/22/2006	1.0 U	2.0 U	**30**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.009 J	0.084	140	1.5	15	11	5.0 U	1.0 U	5.78	0.123	0.34	1.48	11.6	-127.3
Area 5	G6M-04-05X	3/29/2007	1.0 U	2.0 U	**16**	2.0 U	2.0 U	2.0 U	5.0 U	0.12	120	15 U	0.025 U	0.022 J	460	-	-	-	1.4 J	-	5.79	0.185	0.01	0.13	-	57.9
Area 5	G6M-04-05X	6/12/2007	1.0 U	2.0 U	**12**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.005 J	0.041	330	-	-	-	0.4 J	-	5.89	0.116	4.40	0.52	15.8	168.2
Area 5	G6M-04-05X	9/10/2007	1.0 U	2.0 U	**43**	2.0 U	2.0 U	2.0 U	2.0 U	0.1 U	100 U	15 U	0.24	0.089	340	1.6	20	17	5.0 U	1.0 U	5.89	0.103	3.90	2.60	12.8	142.8
Area 5	G6M-04-05X	12/11/2007	1.0 U	2.0 U	**7.2**	2.0 U	2.0 U	2.0 U	5.0 U	0.19	190	15 U	0.025 U	0.013 J	1,900	-	-	-	5.0 U	-	5.75	0.118	0.60	0.23	15.3	134.1
Area 5	G6M-04-05X	3/13/2008	1.0 U	2.0 U	2.5	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	17	0.009 J	0.020 J	1,300	-	-	-	5.0 U	-	5.90	0.129	0.20	0.18	17.2	121.0
Area 5	G6M-04-05X	10/20/2008	0.5 U	0.5 U	3.7	0.5 U	0.5 U	0.5 U	8.0 U	0.2 U	200 U	50 U	1.3 U	1.6 U	3,300	1.5	30	10	10 U	0.03 U	5.92	0.152	< 0.01	0.73	15.2	80.0
Area 5	G6M-04-05X	5/6/2009	0.5 U	0.84	**16**	0.5 U	0.38 J	0.27 J	8.0 U	0.2 U	200 U	50 U	1.3 U	1.6 U	2,200	0.37	59 J	17	10 U	0.03 U	5.72	0.187	< 0.01	0.20	11.9	125.5
Area 5	G6M-04-05X	10/14/2009	0.5 U	0.29 J	**8.2**	0.5 U	0.5 U	0.5 U	8.0 U	0.127 U	127 U	60 U	1.3 U	1.6 U	2,000 J	0.39	29	15	10 U	0.03 U	5.62	0.203	< 0.01	0.50	14.1	184.0
Area 5	G6M-04-05X	4/20/2010	0.5 U	0.5 U	2.3 J	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	25 U	1.2 U	1.5 U	3,200	0.30	80	15	10 U	0.03 U	5.92	0.144	0.20	0.40	17.7	152.5
Area 5	G6M-04-05X	10/4/2010	0.5 U	0.5 U	0.28 J	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	25 U	1.2 U	1.5 U	18	1.7	30	13	10 U	0.03 U	5.67	0.131	0.80	1.51	15.3	145.5
Area 5	G6M-04-05X	6/8/2011	-	-	-	-	-	-	5.0 U	0.1 U	100 U	12.7	-	-	-	-	-	-	-	-	5.78	0.193	1.00	0.12	13.2	134.1
Area 5	G6M-04-05X	10/3/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.2 U	200 U	11 J	1.2 U	1.5 U	2,000	0.47	39	19	2.3 J	0.03 U	5.76	0.174	0.44	0.20	14.1	158.9
Area 5	G6M-04-05X	5/8/2012	-	-	-	-	-	-	5.0 U	0.1 U	100 U	11 J	-	-	-	-	-	-	-	-	6.01	0.160	0.56	0.83	14.8	157.2
Area 5	G6M-04-05X	10/9/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	22 J	1.3 U	1.6 U	1,800	0.063 J	32	16	10 U	0.03 U	5.76	0.171	0.84	0.27	14.4	108.4
Area 5	G6M-04-05X	5/22/2013	-	-	-	-	-	-	2.7 J	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	5.90	0.156	1.75	0.25	13.2	134.1
Area 5	G6M-04-05X	10/15/2013	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	15 J	1.3 U	1.6 U	28,000	0.13 U	60	18	10 U	0.03 U	6.01	0.199	< 0.01	0.47	14.2	145.8
Area 5	G6M-04-05X	6/12/2014	-	-	-	-	-	-	2.4 J	0.195 U	195 U	13 J	-	-	-	-	-	-	-	-	6.09	0.193	0.68	0.41	12.3	86.2
Area 5	G6M-04-05X	10/28/2014	0.5 U	0.5 U	0.42 J	0.5 U	0.5 U	0.5 U	4.1 J	0.029	29	12 J	2.8	1.6	48	0.31	39	13	10 U	0.03 U	6.49	0.182	0.48	0.62	11.6	81.9
Area 5	G6M-04-05X	6/17/2015	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U	0.05 U	50 U	12 J	5.0 U	5.0 U	22 J	0.29	23	23	0.81 U	1.0 U	-	-	-	-	-	-

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 5	G6M-04-05X	9/10/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	0.1 U	100 U	7.5 J	10 U	10 U	10 U	0.21	-	25	1.0 U	2.0 U	5.75	0.245	2.08	0.95	12.1	67.6
Area 5	G6M-04-05X	10/15/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	0.1 U	100 U	20	10 U	10 U	53	0.20	32	22	1.1	2.0 U	5.96	0.264	2.44	0.50	11.8	116.4
Area 5	G6M-04-05X	2/22/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	0.1 U	100 U	22	10 U	10 U	305	0.11 U	35	27	1.0 U	2.0 U	5.93	0.187	1.92	1.03	10.4	112.9
Area 5	G6M-04-05X	11/14/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	20	1.1 U	1.0 U	15	0.19	36	24	0.75 J	1.0 U	6.33	0.176	4.16	1.22	9.6	23.9
Area 5	G6M-04-05X	10/17/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.075 U	75 U	15	1.1 U	1.0 U	260	0.17	31	16	1.0 U	1.0 U	5.66	0.171	3.27	0.19	11.2	185.7
Area 5	G6M-04-05X	10/23/2018	1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U	--	--	--	--	-	-	-	-	-	-	-	-	6.03	0.187	2.10	0.37	11.0	18.9
Area 5	G6M-04-05X	10/20/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.35	0.123	1.28	0.59	11.8	206.0
Area 5	G6M-04-05X	10/10/2022	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.74	0.258	5.30	2.28	11.8	135.5
Area 5	G6M-04-05X	11/8/2024	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.32	0.1	2.03	0.94	12.1	117
Area 5	G6M-04-06X	9/22/2004	1.0 U	2.0 U	**160**	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	15 U	0.056	0.005 U	3.4	5.3	110	8.7	1.0 U	2.0 U	11.01	0.341	1.34	9.17	11.4	-0.6
Area 5	G6M-04-06X	12/16/2004	1.0 U	2.0 U	**24**	2.0 U	2.0 U	2.0 U	**21**	1.0 U	1,000 U	15 U	0.017	0.028	0.47	7.9	54	10	5.0 U	2.9	10.89	0.254	2.26	9.42	13.1	106.9
Area 5	G6M-04-06X	3/30/2005	1.0 U	2.0 U	**37**	2.0 U	2.0 U	2.0 U	7.5	1.0 U	1,000 U	15 U	0.009	0.051	0.58	2.0	37	12	5.0 U	2.0 U	9.47	0.235	0.32	10.5	11.6	10.6
Area 5	G6M-04-06X	7/1/2005	1.0 U	2.0 U	**140**	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1,000 U	190	0.034	0.056	9.7	1.5	10	25	2.8 J	1.0 U	9.08	0.214	0.95	9.77	11.8	457.2
Area 5	G6M-04-06X	9/29/2005	1.0 U	2.0 U	**32**	2.0 U	2.0 U	2.0 U	**11**	1.0 U	1,000 U	15 U	0.009 J	0.018 J	0.70	1.9	70	12	5.4	1.0 U	9.32	0.192	1.99	9.43	11.5	390.6
Area 5	G6M-04-06X	12/15/2005	1.0 U	2.0 U	**26**	2.0 U	2.0 U	2.0 U	**81**	1.0 U	1,000 U	150	0.009 J	0.022 J	3.3	1.9	39	12	7.6	1.0 U	9.74	0.226	0.30	10.2	14.6	151.2
Area 5	G6M-04-06X	3/23/2006	1.0 U	2.0 U	**100**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.006 J	0.036	3.1	1.7	23	9.3	5.0 U	1.0 U	8.94	0.188	1.72	9.46	10.3	452.5
Area 5	G6M-04-06X	6/23/2006	1.0 U	2.0 U	**190**	2.0 U	2.0 U	2.0 U	**13 J**	0.1 U	100 U	15 U	0.012 J	0.041	10	1.7	41	9.4	5.0 U	1.0 U	8.66	0.254	3.55	9.75	12.8	165.3
Area 5	G6M-04-06X	9/21/2006	1.0 U	2.0 U	**45**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.016 J	0.11	6.3	1.0	31	11	1.9 J	1.0 U	9.46	0.347	1.45	9.75	17.9	66.6
Area 5	G6M-04-06X	12/11/2006	1.0 U	2.0 U	**37**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.010 J	0.044	4.3	-	-	-	5.0 U	-	9.67	0.257	4.40	9.67	14.2	108.0
Area 5	G6M-04-06X	12/13/2006	1.0 U	3.4	2.8	2.0 U	2.0 U	2.0 U	5.0 U	0.27	270	**8,500**	0.025 U	0.025 U	20,000	-	-	-	2.0 J	-	6.45	0.870	5.00	0.26	11.4	168.2
Area 5	G6M-04-06X	3/29/2007	1.0 U	2.0 U	**18**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.011 J	0.021 J	13	-	-	-	5.0 U	-	8.99	0.137	11.1	14.6	11.9	150.7
Area 5	G6M-04-06X	6/12/2007	1.0 U	3.5	**25**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.010 J	0.061	19	-	-	-	5.0 U	-	8.82	0.272	4.90	10.1	13.9	118.1
Area 5	G6M-04-06X	9/10/2007	1.0 U	3.0	**23**	2.0 U	2.0 U	2.0 U	8.0 U	0.1 U	100 U	15 U	0.005 J	0.007 J	0.13	1.3	38	82	5.0 U	1.0 U	8.14	0.248	9.90	6.73	16.1	50.1
Area 5	G6M-04-06X	12/12/2007	1.0 U	6.3	**22**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.004 J	0.025 U	0.21	-	-	-	5.0 U	-	7.36	0.335	0.20	12.3	13.7	81.7
Area 5	G6M-04-06X	3/14/2008	1.0 U	2.4	**14**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.005 J	0.025 U	2.8	-	-	-	5.0 U	-	7.29	0.224	0.30	10.9	13.1	186.9
Area 5	G6M-04-06X	10/16/2008	0.5 U	2.2	**24**	0.5 U	0.68	0.5 U	8.5	0.2 U	200 U	12 J	1.3 U	1.6 U	2.0	1.5 U	34	11	10 U	0.03 U	7.69	0.198	1.00	9.11	13.0	209.6
Area 5	G6M-04-06X	5/6/2009	0.5 U	1.8	**13**	0.5 U	0.51	0.5 U	6.9	0.2 U	200 U	50 U	1.3 U	1.6 U	1.6	1.3	44	14	10 U	0.03 U	7.35	0.209	1.90	9.41	15.3	9.2
Area 5	G6M-04-06X	10/14/2009	0.5 U	1.8	**10**	0.5 U	0.46 J	0.5 U	7.4 U	0.2 U	200 U	50 U	1.3 U	1.6 U	22 J	1.3	44	11	10 U	0.03 U	7.15	0.197	< 0.01	9.40	13.7	150.0
Area 5	G6M-04-06X	4/20/2010	0.5 U	0.5 U	3.0 J	0.5 U	0.5 U	0.5 U	7.3	0.1 U	100 U	25 U	1.2 U	1.5 U	150	1.8	60	11	10 U	0.03 U	6.75	0.147	< 0.01	2.86	12.9	27.1
Area 5	G6M-04-06X	10/3/2011	0.5 U	2.0	4.0	0.5 U	0.5 U	0.5 U	4.7 J	0.2 U	200 U	11 J	1.2 U	1.5 U	9,200	0.74	71	11	10 U	0.03 U	6.06	0.133	0.24	1.46	12.0	70.2
Area 5	G6M-04-06X	10/9/2012	0.5 U	0.5 U	3.7	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	21 J	1.2 U	1.5 U	14,000	0.48	62	16	10 U	0.03 U	6.05	0.239	< 0.01	0.31	11.6	135.7
Area 5	G6M-04-06X	10/15/2013	0.5 U	0.55	4.5	0.5 U	0.37 J	0.5 U	5.0 U	0.1 U	100 U	88	1.2 U	1.5 U	36,000	0.13 U	140	12	10 U	0.03 U	6.09	0.242	0.04	1.07	10.6	171.1
Area 5	G6M-04-06X	10/28/2014	0.5 U	0.41 J	1.2	0.5 U	0.78	0.5 U	2.5 U	0.024 J	24 J	157 J	8.1 J	1.5 U	1,200	0.29	70	15	5.0 U	0.03 U	6.51	0.205	1.63	0.29	11.3	164.7
Area 5	G6M-04-06X	10/19/2015	1.0 U	1.0 U	1.7	1.0 U	0.70 J	1.0 U	4.0 U	0.1 U	100 U	74	10 U	10 U	10 U	0.11 U	60	13	1.0	2.0 U	-	-	-	-	-	-
Area 5	G6M-04-06X	11/14/2016	1.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 U	3.0 U	0.017 J	17 J	77	1.1 U	1.0 U	0.82	0.05 U	62	15	1.0	2.0	6.47	0.189	5.87	1.01	10.0	-8.6
Area 5	G6M-04-06X	10/17/2017	1.0 U	0.60 J	1.8	1.0 U	1.0 U	1.0 U	3.0 U	0.03 U	30 U	98	1.1 U	1.0 U	1.6	0.07 J	58	16	1.0 U	1.0 U	6.42	0.271	5.72	0.28	11.0	81.7
Area 5	G6M-04-06X	10/22/2018	1.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	62	-	-	-	-	-	-	-	-	5.90	0.246	8.69	0.53	10.9	51.1
Area 5	G6M-04-06X	10/10/2019	1.0 U	0.54 J	1.1	1.0 U	1.0 U	1.0 U	0.55	0.13	130	17	-	-	-	-	-	-	-	-	6.10	0.190	2.40	0.20	11.0	100.0
Area 5	G6M-04-06X	10/14/2020	1.0 U	0.94 J	1.7	1.0 U	2.1	1.0 U	3.0 U	0.086 U	86 U	140	-	-	-	-	-	-	-	-	6.39	0.132	2.51	0.64	11.4	228.0
Area 5	G6M-04-06X	10/14/2021	1.0 U	0.82 J	1.5 J	1.0 U	1.1	1.0 U	3.0 U	0.026 J	26 J	100	-	-	-	-	-	-	-	-	6.32	0.174	0.25	0.89	12.1	104.8
Area 5	G6M-04-06X	10/6/2022	1.0 U	1.0 U	0.52 J	1.0 U	0.5 U	1.0 U	3.0 U	50 U	50 U	53	-	-	-	-	-	-	-	-	6.57	0.215	7.88	1.35	12.0	225.9
Area 5	G6M-04-06X	11/2/2023	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	3.0 U	50 U	50 U	88	-	-	-	-	-	-	-	-	6.36	0.195	0.10	1.47	9.3	184.5
Area 5	G6M-04-06X	11/11/2024	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	3.0 U	0.050 U	50 U	140	-	-	-	-	-	-	-	-	---	---	---	---	---	---
Area 5	G6M-04-07X	9/22/2004	1.0 U	8.4	**900**	2.0 U	2.7	2.0 U	5.0 U	1.0 U	1,000 U	260	0.061	0.12	3.1	5.4	56	32	1.0 U	2.0 U	7.10	0.243	9.28	3.42	12.0	110.1
Area 5	G6M-04-07X	12/17/2004	1.0 U	9.3	**1,100**	2.0 U	2.0	2.0 U	**28**	1.0 U	1,000 U	47	0.11	2.2	2.1	6.4	43	14	0.6 J	2.0 U	7.51	0.246	74.7	1.98	11.9	-38.9
Area 5	G6M-04-07X	3/29/2005	5.0 U	10 U	**240**	10 U	10U	10 U	**12**	1.0 U	1,000 U	27	0.031	0.64	1.9	1.5	43	14	0.5 J	2.0 U	6.88	0.229	4.20	4.19	10.8	22.0
Area 5	G6M-04-07X	7/5/2005	1.0 U	2.0 U	**170**	2.0 U	2.0 U	2.0 U	4.0	1.0 U	1,000 U	37	0.070	0.042	1.8	1.7	41	14	5.0 U	1.0 U	5.83	0.186	23.4	5.44	11.5	369.9
Area 5	G6M-04-07X	9/29/2005	1.0 U	8.3	**470**	2.0 U	3.0	2.0 U	5.0 U	1.0 U	1,000 U	43	0.010 J	0.010 J	2.4	1.9	1.0 U	16	5.0 U	1.0 U	6.19	0.277	6.62	0.86	11.3	478.3
Area 5	G6M-04-07X	12/14/2005	1.0 U	2.0	**390**	2.0 U	2.0 U	2.0 U	3.8	1.0 U	1,000 U	18	0.006	0.016	7.9	1.6	40	13	6.1	1.0 U	6.65	0.218	34.1	4.72	11.7	149.3
Area 5	G6M-04-07X	3/23/2006	1.0 U	2.0 U	**260**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.005 J	0.029	250	1.6	36	13	5.0 U	1.0 U	6.28	0.267	4.09	2.14	12.1	619.7
Area 5	G6M-04-07X	6/23/2006	1.0 U	2.0 U	**150**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	24	0.005 J	0.022 J	22	1.3	30	13	0.3 J	1.0 U	6.29	0.240	8.07	5.50	11.8	117.8
Area 5	G6M-04-07X	9/21/2006	1.0 U	2.0 U	**110**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	19	0.014 J	0.088	2.4	2.5	32	10	3.4 J	1.0 U	6.34	0.197	2.63	4.43	14.5	99.8
Area 5	G6M-04-07X	12/12/2006	1.0 U	3.1	2.0 U	16	3.1	**7.1**	**490**	**92**	**92,000**	**3,700**	0.032	170	24,000	-	-	1.0 U	7.8	1.0 U	6.60	0.990	4.36	0.17	12.3	-116.0
Area 5	G6M-04-07X	12/12/2006	1.0 U	2.0 U	**8.7**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.025 U	0.010 J	850	-	-	-	5.0 U	-	5.66	0.105	< 0.01	0.39	11.2	156.7
Area 5	G6M-04-07X	3/29/2007	1.0 U	2.0 U	**45**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	17 J	0.006 J	0.018 J	5.2	-	-	-	5.0 U	-	6.55	0.123	3.71	10.3	15.4	143.7
Area 5	G6M-04-07X	6/12/2007	1.0 U	2.0 U	**44**	2.0 U	2.0 U	2.0 U	5.0 U	0.67	670	18	0.010 J	0.079	46	-	-	-	1.2 J	-	6.26	0.129	16.1	8.12	13.2	162.7
Area 5	G6M-04-07X	9/10/2007	1.0 U	2.0 U	**25**	2.0 U	2.0 U	2.0 U	2.0 U	0.1 U	100 U	15 U	0.006 J	0.006 J	0.11	1.9	19	45	5.0 U	1.0 U	6.20	0.130	31.2	8.68	14.7	117.7
Area 5	G6M-04-07X	12/12/2007	1.0 U	2.0 U	**23**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15 U	0.004 J	0.013 J	0.48	-	-	-	5.0 U	-	6.48	0.134	3.00	10.1	10.2	140.2
Area 5	G6M-04-07X	3/13/2008	1.0 U	2.0 U	**19**	2.0 U	2.0 U	2.0 U	5.2	0.1 U	100 U	15 U	0.003 J	0.025 U	1.6	-	-	-	5.0 U	-	6.54	0.143	0.30	10.5	10.5	83.4
Area 5	G6M-04-07X	10/16/2008	0.5 U	0.5 U	**11**	0.5 U	0.5 U	0.5 U	8.0 U	0.2 U	200 U	15 J	1.2 U	1.5 U	390	1.8 U	28	10	10 U	0.03 U	5.85	0.129	0.45	1.62	10.7	205.0
Area 5	G6M-04-07X	5/6/2009	0.5 U	0.5 U	2.2	0.5 U	0.5 U	0.5 U	2.9 J	0.2 U	200 U	50 U	1.3 U	1.6 U	660	2.3	41 J	12	10 U	0.03 U	5.90	0.103	1.25	0.70	13.2	119.2
Area 5	G6M-04-07X	10/14/2009	0.5 U	0.5 U	1.3	0.5 U	0.5 U	0.5 U	8.0 U	0.2 U	200 U	50 U	1.3 U	1.6 U	2,500 J	1.9	32	15	10 U	0.03 U	6.00	0.104	< 0.01	0.35	10.8	141.6
Area 5	G6M-04-07X	4/20/2010	0.5 U	0.5 U	**13 J**	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	31.8 U	1.3 U	1.6 U	630	1.5	50	12	10 U	0.03 U	5.90	0.167	< 0.01	1.11	10.3	24.2
Area 5	G6M-04-07X	10/4/2010	0.5 U	4.5	**19**	0.5 U	2.2	0.5 U	5.0 U	0.1 U	100 U	25 U	1.2 U	1.5 U	5,100	1.1	43	10	10 U	0.03 U	6.06	0.181	0.32	0.94	10.5	116.9
Area 5	G6M-04-07X	6/8/2011	-	-	-	-	-	-	5.0 U	0.15	148	68	-	-	-	-	-	-	-	-	5.81	0.172	< 0.01	1.06	10.4	34.1
Area 5	G6M-04-07X	10/3/2011	0.5 U	2.2	**8.7**	0.5 U	1.2	0.5 U	20 U	0.2 U	200 U	68	1.2 U	1.5 U	8,300	0.59	53	12	10 U	0.03 U	5.76	0.105	0.96	0.28	10.7	-57.7
Area 5	G6M-04-07X	5/8/2012	-	-	-	-	-	-	4.0 J	0.1 U	100 U	27	-	-	-	-	-	-	-	-	6.26	0.198	0.48	0.35	10.5	122.0
Area 5	G6M-04-07X	10/9/2012	0.5 U	33 J	**31 J**	0.5 U	**6.2**	0.97	5.0 U	0.1 U	100 U	35	1.2 U	1.5 U	6,400	0.50	99	10	10 U	0.03 U	6.05	0.264	< 0.01	0.41	10.3	138.9
Area 5	G6M-04-07X	5/22/2013	-	-	-	-	-	-	3.9 J	0.1 U	100 U	51	-	-	-	-	-	-	-	-	6.14	0.220	< 0.01	0.39	14.0	154.1
Area 5	G6M-04-07X	10/15/2013	0.5 U	16	**26**	0.5 U	**5.7**	0.5 U	3.8 J	0.1 U	100 U	**3,480**	1.2 U	1.5 U	37,000	0.30	110	11	10 U	0.03 U	6.24	0.262	0.05	0.37	13.6	218.4

Appendix D
Historical Groundwater Analytical Results
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 5	G6M-04-07X	6/10/2014	-	-	-	-	-	-	3.0 J	0.021 J	21 J	**6,710**	-	-	-	-	-	-	-	-	6.01	0.257	5.18	0.32	8.8	210.9
Area 5	G6M-04-07X	10/28/2014	0.5 U	54	**55**	0.31 J	**11**	0.61	9.5	0.195 J	195 J	**4,370 J**	1.3 U	1.6 U	4,900	0.13	130	9.6	5.0 U	0.03 U	6.57	0.254	4.69	0.24	10.6	108.0
Area 5	G6M-04-07X	10/19/2015	1.0 U	1.0 U	**59**	1.0 U	**12**	1.0	**14**	**564**	**564,000**	**4,590**	10 U	10 U	3,120	0.11 U	143	11	0.98 J	2.0 U	6.35	0.324	1.68	0.05	10.7	23.3
Area 5	G6M-04-07X	11/14/2016	1.0 U	**73**	**78**	0.42 J	**18**	1.8	**29**	1.9	1,900	**4,400**	1.1 U	1.0 U	1,000	0.05 U	160	9.4	1.2	1.0 U	6.42	0.278	6.77	1.01	10.2	-28.3
Area 5	G6M-04-07X	10/17/2017	1.0 U	56	**38**	0.39 J	**20**	**3.1**	**18**	1.7	1,700	**5,200**	1.1 U	1.0 U	760	0.05 U	170	7.6	1.1	1.0 U	6.47	0.409	9.59	0.38	10.8	37.8
Area 5	G6M-04-07X	4/3/2018	1.0 U	7.7	4.2	1.0 U	3.4	1.0 U	7.2	0.05 U	50 U	**2,100**	-	-	-	-	-	-	-	-	7.16	0.508	2.90	1.14	10.5	39.4
Area 5	G6M-04-07X	10/22/2018	2.0 U	**120**	**15**	2.0 U	**47**	**4.4**	**18**	1.5	1,500	**4,200**	-	-	-	-	-	-	-	-	6.15	0.538	4.21	0.28	11.2	33.7
Area 5	G6M-04-07X	4/4/2019	1.0 U	**78**	**25**	0.52 J	**48**	**5.7**	**14**	1.2	1,200	**4,100**	-	-	-	-	-	-	0.89 J	-	6.40	0.560	4.50	0.89	11.0	7.9
Area 5	G6M-04-07X	10/10/2019	1.0 U	**110**	**36**	0.77 J	**53**	**8.5**	9.3	0.86	860	**4,000**	-	-	-	-	-	-	1.2	-	6.20	0.610	8.40	0.42	11.0	51.0
Area 5	G6M-04-07X	05/12/2020	1.0 U	**110**	**18**	0.59 J	**38**	**10**	8.3	0.95	952	**3,800**	1.1 U	1.0 U	360	0.10 U	220	9.4	1.1	0.83 U	6.91	1.260	18.4	10.4	11.8	-83.9
Area 5	G6M-04-07X	10/14/2020	1.0 U	**76**	**9.1**	0.58 J	**37**	**11**	7.6	1.0	1,000	**3,800**	1.1 U	0.54 J	540	0.05 U	230	9.9	1.1	0.81 U	6.43	0.397	4.78	0.72	11.6	57.0
Area 5	G6M-04-07X	5/12/2021	1.0 U	**89**	2.0 U	0.96 J	**22**	**10**	6.9	1.1	1,100	**3,600**	0.76 U	0.57 J	350	0.05 U	230	7.4	1.4 U	0.81 U	6.46	0.402	2.68	1.09	11.3	12.2
Area 5	G6M-04-07X	10/14/2021	1.0 U	**120**	4.8	0.66 J	**38**	**14**	8.0	1.2	1,200	**4,200**	0.34 J	0.64 J	520	0.05 U	260	7.5	1.4	0.81 U	6.24	0.536	0.03	1.04	12.0	55.4
Area 5	G6M-04-07X	5/2/2022	1.0 U	**79**	4.1	0.82 J	**31**	**12**	7.2	0.95	950	**3,800**	0.42 J	0.48 J	280 J	0.05 U	230	6.3	1.4	1.2 U	6.34	0.560	4.40	0.72	11.2	23.3
Area 5	G6M-04-07X	10/5/2022	1.0 U	**150 J**	0.42 J	1.3 J	**24 J**	**28 J**	7.4	1.1	1,100	**4,200**	0.54 J	0.46 J	270	0.025 U	260	5.6	1.4	3.7	6.56	0.754	2.49	2.85	12.5	71.9
Area 5	G6M-04-07X	6/6/2023	1.0 U	67	2.1	0.66 J	**20**	**11**	6.9	1.2	1,200	**3,700**	0.55 J	0.48 J	230	0.02 J	250	6.2	0.99 J	1.5 U	6.24	0.610	1.25	0.29	11.6	12.4
Area 5	G6M-04-07X	11/2/2023	1.0 U	**74**	4.7	1.0 U	**24**	**10**	7.4		1,200	**3,800**	0.56 J	0.46 J	160	0.025 U	250	5.0	1.3 J	1.8 U	6.25	0.540	0.90	1.17	10.6	3.2
Area 5	G6M-04-07X	4/22/2024	1.0 U	51	1.0 U	0.78 J	**7.7**	**7.8**	6.1	1.2	1,200	**3,600**	0.60 J	0.53 J	130	-	-	5.3	1.6	-	6.35	0.48	3.9	0.74	11.9	4.4
Area 5	G6M-04-07X	11/11/2024	1.0 U	2.4	1.0 U	1.0 U	0.37 J	1.0 U	2.6 J	0.050 U	50 U	62	0.76 U	0.71 U	1.9	0.33	160	8.4	1.1	1.7 U	6.64	0.29	0	1.37	17.9	105
Area 5	G6M-13-01X	12/12/2006	1.0 U	**120**	**750**	2.0 U	**45**	**7.8**	5.0 U	1.0 U	1,000 U	15 U	0.013	0.59	16,000	-	-	-	5.0 U	-	5.98	0.350	7.00	0.22	11.9	145.0
Area 5	G6M-13-01X	1/30/2014	0.5 U	0.73	**12**	0.5 U	0.42 J	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	6.21	0.860	38.0	1.64	16.4	188.4
Area 5	G6M-13-01X	10/28/2014	0.5 U	7.8	**150**	0.5 U	2.8	0.5 U	2.5 U	0.025 U	25 U	27 J	-	-	-	-	-	-	-	-	6.25	0.495	9.14	1.77	12.8	100.3
Area 5	G6M-13-01X	6/22/2015	0.5 U	1.3	**16**	0.5 U	0.65 J	0.5 U	2.3 J	0.05 U	50 U	8.7 J	-	-	-	-	-	-	-	-	5.80	0.848	1.11	0.89	17.5	172.2
Area 5	G6M-13-01X	10/16/2015	1.0 U	1.0 U	**26**	1.0 U	1.1	1.0 U	4.0 U	0.061 J	61 J	16	-	-	-	-	-	-	-	-	5.57	0.727	22.1	0.52	13.7	42.7
Area 5	G6M-13-01X	2/11/2016	1.0 U	1.6	**10**	1.0 U	0.69 J	1.0 U	4.0 U	0.1 U	100 U	10 J	10 U	10 U	126	0.31	32	17	1.0 U	2.0 U	6.05	0.880	1.02	0.57	10.3	38.8
Area 5	G6M-13-01X	6/15/2016	1.0 U	2.8	**18**	1.0 U	1.1	1.0 U	2.1 J	0.083	83	14	-	-	-	-	-	-	-	-	6.09	0.891	25.0	0.65	15.6	36.9
Area 5	G6M-13-01X	11/11/2016	1.0 U	6.5	**27**	1.0 U	3.5	**2.8**	3.5	1.2	1,200	29	-	-	-	-	-	-	-	-	5.63	0.638	22.1	1.11	12.4	83.3
Area 5	G6M-13-01X	5/18/2017	1.0 U	3.4	**13**	1.0 U	0.85 J	1.0 U	3.0 U	0.039 J	39 J	19	1.1 U	1.0 U	830	0.14	36	14	1.0 U	1.0 U	6.02	0.631	5.47	0.37	14.5	127.6
Area 5	G6M-13-01X	10/16/2017	1.0 U	0.65 J	**10**	1.0 U	0.79 J	1.0 U	3.6	0.83	830	34	-	-	-	-	-	-	-	-	6.09	0.809	38.9	0.40	12.1	49.7
Area 5	G6M-13-01X	4/4/2018	1.0 U	1.2	3.4	1.0 U	0.99 J	1.0 U	10	1.5	1,500	260	1.1 U	1.0 U	3,200	0.05 U	31	15	1.8	1.0 U	6.15	0.907	3.35	0.71	11.1	41.9
Area 5	G6M-13-01X	10/29/2018	1.0 U	3.6	0.85 J	1.0 U	1.3	1.0 U	**13**	1.5	1,500	200	1.1 U	1.0 U	2,300	0.05 U	35	14	6.7	1.0 U	5.63	0.975	23.6	0.46	12.1	-1.9
Area 5	G6M-13-01X	4/3/2019	1.0 U	3.1	1.0 U	1.0 U	1.0 U	1.0 U	3.4	0.46	460	**3,300**	0.66 J	1.5	4,500	0.05 U	-	13	36	1.0 U	6.00	1.000	29.0	1.40	12.0	-140.0
Area 5	G6M-13-01X	10/21/2019	1.0 U	30	1.8	1.0 U	**7.1**	**4.0**	6.2	1.3	1,300	**2,700**	1.1 U	2.2	6,200	0.21	34	12	14	0.85 U	5.70	0.790	190	0.15	12.0	33.0
Area 5	G6M-13-01X	05/11/2020	1.0 U	4.4	0.85 J	1.0 U	0.69 J	1.0 U	6.2	0.62	620	**5,100**	1.1 U	0.78 J	8,000	0.10 U	66	10	11	0.81 U	5.90	0.941	94.2	0.88	12.7	3.8
Area 5	G6M-13-01X	10/13/2020	1.0 U	2.2	2.0	1.0 U	1.6	1.0 U	1.8 J	0.18	180	**2,600**	1.1 U	1.0 U	3,100	0.05 U	45	15	3.8	0.83 U	6.20	0.639	322	1.53	11.8	-88.1
Area 5	G6M-13-01X	5/11/2021	1.0 U	24	2.0 U	1.0 U	1.0 U	**6.7**	**14**	1.1	1,100	**6,000**	2.5	6.8	9,300	0.05 U	170	8.3	3.0	0.81 U	6.50	0.686	291.9	0.89	11.9	-99.8
Area 5	G6M-13-01X	10/12/2021	1.0 U	1.9	2.0 U	1.0 U	1.6	1.0 U	**160**	1.4	1,400	**5,800**	0.76 U	0.60 J	2,200	0.05 U	98	11	1.3	0.81 U	6.48	1.620	8.77	0.69	12.2	-38.6
Area 5	G6M-13-01X	5/3/2022	1.0 U	0.73 J	1.0 U	1.0 U	0.50 J	1.0 U	**180**	2.9	2,900	**4,500**	0.76 U	0.71 U	1,400 J	0.05 U	68	14	1.4	1.2 U	6.47	0.987	3.11	0.37	12.0	-29.3
Area 5	G6M-13-01X	10/12/2022	1.0 U	10.0	1.0 U	1.0 U	0.5 U	3.8	**160**	**8.0**	**8,000**	**8,500**	0.57 J	2.7	910	0.025 U	180	7.1	1.9	1.8 U	6.38	1.007	30.21	1.54	17.0	-40.4
Area 5	G6M-13-01X	6/6/2023	1.0 U	0.61 J	1.0 U	1.0 U	0.31 J	1.0 U	**230**	**6.0**	**6,000**	**3,900**	0.76 U	0.47 J	750	0.036 J	81	15	0.97 J	1.5 U	6.59	0.880	3.1	1.08	16.1	-36.3
Area 5	G6M-13-01X	10/18/2023	1.0 U	0.60 J	1.0 U	1.0 U	0.42 J	1.0 U	**220**		**6,500**	**3,900**	0.76 U	0.71 U	680	0.025 U	79	14	1.5	1.7 U	6.49	0.860	2.6	0.39	13.8	-46.6
Area 5	G6M-13-01X	4/23/2024	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	**200**	**6.7**	**6,700**	**3,800**	0.76 U	0.71 U	910	0.025 U	67	15	1.1	1.7 U	6.67	0.75	1.06	0.23	13.9	-20.5
Area 5	G6M-13-01X	11/12/2024	1.0 U	0.27 J	1.0 U	1.0 U	0.50 U	1.0 U	**180**	**4.7**	**4,700**	**3,500**	0.76 U	0.71 U	160	0.2	58	15	0.89 J	1.7 U	6.41	0.49	0	0.93	11.4	-8.9
Area 5	G6M-13-04X	12/11/2006	1.0 U	2.0 U	**87**	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	15	0.007 J	0.033	2.2	-	-	-	5.0 U	-	6.65	0.134	10.5	6.99	17.2	116.4
Area 5	G6M-13-04X	1/30/2014	0.90 J	68	**41**	2.7	**51**	**150**	-	-	-	-	-	-	-	-	-	-	-	-	6.57	1.414	4.60	0.98	12.6	-36.4
Area 5	G6M-13-04X	6/10/2014	0.66	29	**25**	2.7	**31**	**130**	**360**	**49 J**	**49,000 J**	**5,900**	2.7 J	12 J	3,600 J	0.13 U	280 J	9.3	2.5 J	0.03 U	6.42	1.212	12.9	0.58	-	-49.4
Area 5	G6M-13-04X	10/29/2014	0.56	69	1.7	1.6	**17**	**72**	**321**	**5.5 J**	**5,500 J**	**6,170 J**	4.7	41	32,000	0.13 U	310	3.5 J	13	0.03 U	6.65	1.081	5.55	0.42	12.1	-95.2
Area 5	G6M-13-04X	6/22/2015	0.5 U	2.2	0.5 U	0.5 U	1.8	1.4	**360**	**29**	**29,300**	**3,840 J**	5.0 U	5.0 U	719	0.11 U	129	30.5 J	3.2	1.0 U	6.95	0.800	0.80	0.70	17.3	-156.6
Area 5	G6M-13-04X	10/15/2015	1.0 U	52	**19**	0.76 J	**19**	**33**	**388**	**33**	**33,100**	**7,930**	10 U	19	9,470	0.16	269	5.8 J	2.8	2.0 U	6.60	1.595	7.50	0.29	12.3	-69.4
Area 5	G6M-13-04X	2/11/2016	1.0 U	15	0.70 J	1.5	**5.9**	**51**	**392**	**34**	**33,900**	**7,390**	10 U	19	5,690	0.099 J	261	6.1 J	3.2	2.0 U	6.66	1.086	9.50	1.23	8.5	-2.9
Area 5	G6M-13-04X	6/15/2016	0.73 J	19	**12**	1.2	**18**	**55**	**340**	**27**	**27,000**	**6,800**	2.8	20 J	9,300	0.05 U	280	3.6	1.7	1.0 U	6.69	1.669	11.5	0.59	14.9	-54.2
Area 5	G6M-13-04X	11/11/2016	0.62 J	17	4.9	0.86 J	**17**	**36**	**340**	**28**	**28,000**	**7,600**	2.2	12	7,000	0.05 U	250	4.0	1.6	1.0 U	7.21	1.175	24.1	0.88	12.7	-80.4
Area 5	G6M-13-04X	10/16/2017	0.71 J	25	**40**	0.81 J	**40**	**33**	**340 J**	**27**	**27,000**	**7,100**	1.5	7.6	2,500	0.05 U	190	4.1	1.8	1.0 U	6.76	1.410	4.96	0.65	12.1	-79.1
Area 5	G6M-13-04X	4/5/2018	1.0 U	6.9	1.0 U	1.6	4.1	**8.6**	**350**	**34**	**34,000**	**7,500**	8.6	14	20,000	0.062 J	210	4.5	1.8	1.0 U	6.65	1.579	1.28	0.90	10.6	-31.2
Area 5	G6M-13-04X	10/29/2018	1.0 U	7.7	1.0 U	0.67 J	**6.9**	**6.1**	**330**	**23**	**23,000**	**8,700**	1.8	4.4	2,700	0.055 J	160	6.9	1.5	1.0 U	6.42	1.619	9.47	0.91	11.2	-53.9
Area 5	G6M-13-04X	4/4/2019	1.0 U	13	1.0 J	0.52 J	**12**	**6.5**	**350 J**	**35**	**35,000**	**10,000**	2.4	12	21,000	0.05 U	-	5.7 J	4.4	1.0 U	6.80	1.700	2.00	1.40	10.0	-97.0
Area 5	G6M-13-04X	10/23/2019	1.0 U	8.5	1.0 U	1.0 U	0.61 J	**4.5**	**440**	**81**	**81,000**	**13,000**	3.2	16	13,000	0.042 J	310	4.1	55	0.86 U	6.60	2.000	11.0	1.80	12.0	-95.0
Area 5	G6M-13-04X	05/11/2020	1.0 U	0.68 J	1.0 U	1.0 U	1.0 U	0.52 J	**430**	**44**	**44,000**	**9,000**	1.5	2.5	21,000	0.10 U	240	5.5	6.3	0.81 U	6.83	1.700	0.86	0.87	11.4	-83.4
Area 5	G6M-13-04X	10/16/2020	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.3	**550**	**100**	**100,000**	**10,000**	3.3	3.6	25,000	0.055 J	250	4.4 J	10	0.96 U	6.54	1.450	94.8	0.61	12.2	-117.0
Area 5	G6M-13-04X	10/12/2021	1.0 U	0.91 J	2.0 U	1.0 U	0.88 J	1.0 U	**450**	**41**	**41,000**	**8,300**	-	-	-	-	-	-	-	-	6.98	1.140	32.4	0.65	13.2	-135.0
Area 5	G6M-13-04X	10/12/2022	1.0 U	1.2 J	1.0 U	1.0 U	0.5 U	0.83 J	**580**	**68**	**68,000**	**8,100**	-	-	-	-	-	-	-	-	6.86	1.204	1.24	0.76	16.8	-124.7
Area 5	G6M-13-04X	11/2/2023	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.77 J	**480**	**68**	**58,000**	**6,600**	-	-	-	-	-	-	-	-	6.58	1.520	5.40	1.58	9.7	-119.0
Area 5	G6M-13-04X	11/11/2024	1.0 U	0.79 J	1.0 U	1.0 U	0.5 U	1.0 U	**370**	**55**	**55,000**	**5,400**	-	-	-	-	-	-	-	-	6.67	0.93	1.28	1.32	13.5	-90.1
Area 5	G6M-18-01	1/14/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	8.58	0.166	3.09	7.00	11.6	69.0
Area 5	G6M-18-01	10/14/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.054	54	14	1.1 U	1.0 U	0.33 J	0.50	26	7.1	0.57 J	0.93 U	6.00	0.140	5.50	6.80	13.0	130.0
Area 5	G6M-18-01	11/05/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	4.7 J	1.1 U	1.0 U	0.40	0.51	22	6.1	1.0 U	0.81 U	8.23	0.149	2.01	7.42	13.0	119.0
Area 5	G6M-18-02	1/14/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.22	0.722	3.69	3.85	10.7	137.1
Area 5	G6M-18-02	10/18/2019	1.0 U	1.0 U	0.80 J	1.0 U	1.0 U	1.0 U	3.0 U	0.017 J	17 J	90	1.1 U	1.0 U	2.6	1.9	18	11	1.0 U	0.88 U	5.80	0.840	1.30	2.50	12.0	210.0
Area 5	G6M-18-02	10/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	23	1.1 U	1.0 U	0.51 J	1.9	22	14	1.4	0.81 U	6.08	0.645	1,060	4.28	17.0	201.0
Area 5	G6M-97-05B	10/3/2011	0.5 U	0.5 U	**5.7**	0.5 U	0.58	0.5 U	5.0 U	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	6.21	0.357	1.48	3.91	12.4	166.4
Area 5	G6M-97-05B	10/12/2012	0.5 U	0.5 U	**13**	0.5 U	0.73	0.5 U	5.0 U	0.017 J	17 J	25 U	-	-	-	-	-	-	-	-	6.19	0.649	0.41	4.13	14.6	132.0

Appendix D
Historical Groundwater Analytical Results
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 5	G6M-97-05B	10/16/2013	0.5 U	0.63	**26**	0.5 U	0.70	0.5 U	5.0 U	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	6.15	0.513	3.86	3.88	13.8	123.8
Area 5	G6M-97-05B	10/28/2014	0.5 U	1.7	**83**	0.5 U	1.8	0.5 U	2.5 U	0.029 J	29 J	25 U	-	-	-	-	-	-	-	-	6.21	0.499	2.78	3.38	11.1	112.1
Area 5	G6M-97-05B	6/19/2015	0.5 U	2.3	**89**	0.5 U	4.8	0.5 U	3.1 J	0.05 U	50 U	7.5 U	5.0 U	5.0 U	5.0 U	1.0	27	7.8 J	-	1.0 U	6.26	0.630	1.72	2.73	17.2	106.3
Area 5	G6M-97-05B	10/15/2015	1.0 U	3.4	**117**	1.0 U	**6.9**	1.0 U	4.0 U	0.061 J	61 J	19	-	-	-	-	-	-	-	-	5.43	0.687	1.05	3.41	18.9	86.9
Area 5	G6M-97-05B	2/11/2016	1.0 U	3.8	**97**	1.0 U	**11**	1.0 U	4.0 U	0.1 U	100 U	15 U	10 U	10 U	10 U	1.0	29	7.8 J	1.0 U	2.0 U	6.33	0.430	16.7	4.72	7.3	131.7
Area 5	G6M-97-05B	6/15/2016	1.0 U	4.2	**87**	1.0 U	**13**	1.0 U	3.0 U	0.05 U	50 U	3.0 U	-	-	-	-	-	-	-	-	6.26	0.669	1.15	2.75	15.9	81.7
Area 5	G6M-97-05B	11/15/2016	1.0 U	4.2	**140**	1.0 U	**13**	1.0 U	3.0 U	0.021 J	21 J	2.4 J	-	-	-	-	-	-	-	-	6.39	0.469	0.87	3.37	11.7	129.4
Area 5	G6M-97-05B	5/17/2017	1.0 U	8.6	**190**	1.0 U	**15**	1.0 U	3.0 U	0.05 U	50 U	3.0 U	1.1 U	1.0 U	0.84	0.94	31	7.0	1.0 U	1.0 U	6.20	0.547	9.59	2.00	15.2	120.8
Area 5	G6M-97-05B	10/11/2017	1.0 U	4.4	**140**	1.0 U	**16**	1.0 U	3.0 U	0.1 U	100 U	3.3 J	1.1 U	1.0 U	0.58 U	0.89	32	7.4	1.0 U	1.0 U	6.20	0.710	5.27	1.65	14.0	100.1
Area 5	G6M-97-05B	4/3/2018	1.0 U	9.0	**240**	1.0 U	**19**	1.0 U	3.0 U	0.05 U	50 U	1.4 J	1.1 U	1.0 U	34	0.79	33	7.4	1.5	1.0 U	6.60	0.671	1.13	1.85	10.9	47.4
Area 5	G6M-97-05B	10/30/2018	2.0 U	9.6	**190**	2.0 U	**16**	2.0 U	3.0 U	0.05 U	50 U	1.5 J	1.1 U	1.0 U	530 J	0.59	35	8.6	0.5 U	1.0 U	5.74	0.758	9.85	1.29	9.1	105.0
Area 5	G6M-97-05B	4/3/2019	1.0 U	9.8	**180**	1.0 U	**22**	1.0 U	3.0 U	0.05 U	50 U	4.3 J	1.1 U	1.0 U	1,100	0.58	-	7.6	0.5 U	1.0 U	6.20	0.760	0.69	1.50	13.0	45.0
Area 5	G6M-97-05B	10/21/2019	1.0 U	17	**26**	1.0 U	**7.8**	1.0 U	**56**	**22**	**22,000**	**5,800**	4.7	1.4	820	0.05 U	110	2.0	270	0.83 U	6.00	0.980	140	0.11	12.0	5.8
Area 5	G6M-97-05B	05/11/2020	1.0 U	**77**	**6.4**	1.0 U	0.97 J	0.56 J	**220**	**100**	**100,000**	**16,000**	6.5	1.6	13,000	0.10 U	250	0.48 J	260	0.81 U	5.86	1.230	23.1	1.04	13.4	-61.2
Area 5	G6M-97-05B	10/13/2020	1.0 U	**73**	**13**	1.0 U	3.1	**2.4**	**130**	**61**	**61,000**	**5,800**	25	22	10,000	0.10 U	150	1.0 U	210	0.81 U	5.32	0.655	2,600	0.42	11.8	181.0
Area 5	G6M-97-05B	5/11/2021	1.0 U	32	1.9 J	1.0 U	3.4	**10**	**250**	**74**	**74,000**	**13,000**	5.7	24	27,000	0.046 J	170	1.0 U	67	0.81 U	6.40	0.806	330	0.56	14.0	-83.9
Area 5	G6M-97-05B	10/13/2021	1.0 U	21	2.0 U	1.0 U	3.1	**8.0**	**170**	**52**	**52,000**	**6,600**	6.3	23	28,000	0.05 U	110	0.67 J	34	0.81 U	6.49	1.625	11.96	0.7	89.0	-105.1
Area 5	G6M-97-05B	5/2/2022	1.0 U	5.8	1.0 U	1.0 U	0.52 J	**3.5**	**300**	**62**	**62,000**	**7,500**	14	23	27,000 J	0.05 U	170	0.85 J	36	1.2 U	6.84	0.974	118	0.27	11.9	-154.0
Area 5	G6M-97-05B	10/10/2022	1.0 U	1.1 J	1.0 U	1.0 U	0.5 U	0.62 J	**270**	**62**	**62,000**	**11,000**	19	9.0	26,000	0.025 U	170	1.0 U	20	1.9 U	6.69	1.131	6.94	0.59	12.5	-149.1
Area 5	G6M-97-05B	6/6/2023	1.0 U	0.58 J	1.0 U	1.0 U	0.5 U	1.0 U	**320**	**77**	**77,000**	**7,600**	27	7.0	34,000	0.055 J	160	1.0	18	1.5 U	6.86	1.020	6.41	0.56	13.7	-154.0
Area 5	G6M-97-05B	10/17/2023	1.0 U	3.9	1.0 U	1.0 U	0.98 J	1.1 J	**140**	**41**	**41,000**	**3,600**	16	4.5	31,000	0.074 J	120	2.0 U	4.1	-	6.75	0.869	7.5	0.06	15.6	-121.4
Area 5	G6M-97-05B	4/23/2024	1.0 U	1.0 U	1.0 U	0.64 J	0.5 U	0.74 J	**240**	**61**	**61,000**	**7,300**	17	5.3	31,000	0.064 J	130	10.0 U	7.5	1.6 U	6.81	0.88	9.27	0.21	14.1	-98.3
Area 5	G6M-97-05B	11/11/2024	1.0 U	0.32 J	1.0 U	1.0 U	0.5 U	1.0 U	**270**	**44**	**44,000**	**9,800**	11	6.3	22,000	0.025 UJ	160	1.0 U	6.3	1.7 U	6.7	0.79	27.3	0.77	12.5	-144
Area 5	MW-3	10/17/2001	10 U	**540**	**4,300**	20 U	**1,500**	20 U	-	-	-	-	-	-	-	-	-	-	-	-	5.70	1.400	3.10	0.90	13.7	-127.0
Area 5	MW-3	12/19/2001	6.5 J	**2,200**	**26**	20 U	**4,000**	20 U	-	-	-	-	-	-	-	-	-	0.43 J	92	-	6.28	0.912	7.28	0.43	13.0	-46.0
Area 5	MW-3	1/3/2002	-	-	-	-	-	-	**180**	**30**	**30,000**	-	0.063	0.21	18	-	-	-	44	-	4.77	2.795	4.40	1.33	11.2	-48.0
Area 5	MW-3	1/31/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	-	6.64	0.999	-	0.00	12.2	-293.0
Area 5	MW-3	2/13/2002	3.7	**1,600**	**4,400**	1.6 J	**1,700**	2.0 U	**190**	**20**	**20,000**	**8,300**	0.079	0.29	53	0.10 U	-	14	15	1.0 J	6.65	0.893	1.30	0.75	13.5	-71.0
Area 5	MW-3	3/13/2002	2.8	**1,400**	**5,200**	1.4 J	**640**	2.0 U	**180**	**16**	**16,000**	**8,400**	0.093	0.37	66	0.10 U	-	15	7.3	2.0 U	6.72	0.795	1.04	0.25	12.2	-75.0
Area 5	MW-3	4/2/2002	4.0	**1,700**	**3,100**	2.2	**1,000**	2.0 U	-	-	-	-	-	-	-	-	-	-	3.3 J	-	6.74	0.634	2.08	4.28	13.2	-120.0
Area 5	MW-3	4/17/2002	3.4	**1,600**	**1,200**	1.2 J	**1,300**	2.0 U	**240**	**37**	**37,000**	**17,000**	0.025	0.087	54	3.0	-	7.9 J	6.1	1.6 J	6.60	0.771	0.81	4.39	12.7	-102.0
Area 5	MW-3	5/15/2002	6.7	**2,600**	**31**	3.5	**23**	2.0 U	**260**	**42**	**42,000**	**19,000**	0.052	0.24	560	0.10 U	-	3.9	96	1.6 J	6.66	1.460	1.68	0.31	14.2	-124.0
Area 5	MW-3	6/27/2002	100 U	**1,800**	200 U	200 U	200 U	200 U	**490 J**	**140**	**140,000**	**37,000 J**	0.021	0.082	3,900	14	-	4.4 J	270	2.0 U	6.70	3.804	2.90	1.64	13.8	-107.0
Area 5	MW-3	7/31/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	6.76	1.606	-	0.15	13.9	-225.0
Area 5	MW-3	8/26/2002	4.4	**580**	**990**	2.1	**640**	2.0 U	**270**	-	-	-	0.053	0.16	14,000	-	320	-	30	-	6.83	1.285	6.50	0.15	18.8	-138.0
Area 5	MW-3	10/28/2002	4.2	**1,700**	**1,900**	3.9	**820**	2.0 U	**330**	**39**	**39,000**	**9,700**	0.30	0.23	6,300	0.10 U	190	10	6.3	2.0 U	6.70	1.129	5.01	0.40	15.7	-129.0
Area 5	MW-3	2/3/2003	**7.1**	**2,900**	3.0	2.0 U	2.0 U	2.0 U	**330**	**120**	**120,000**	-	0.005 U	0.26	28,000	-	580	1.0 U	180	-	6.84	1.322	6.70	0.30	18.2	-159.0
Area 5	MW-3	7/16/2003	**7.5**	**2,700**	2.4	2.0 U	2.0 U	**2.5**	**520**	**170**	**170,000**	-	0.005 U	0.10	23,000	-	450	4.0 U	17	2.0 U	7.02	1.464	39.2	1.09	16.1	-138.0
Area 5	MW-3	9/24/2003	6.9	**1,900**	**670**	2.4	**1,100**	2.0 U	**460**	**89**	**89,000**	**7,900**	0.005 U	0.012	22,000	-	-	-	5.9	-	6.10	1.222	18.9	9.17	15.3	-138.0
Area 5	MW-3	1/9/2004	5.6	**2,000**	**9.7**	2.0 U	**64**	2.0 U	**530**	**200 J**	**200,000 J**	**15,000**	0.005 U	0.005 U	45,000	-	500 J	1.0 U	130	2.0 U	6.73	1.347	14.6	0.40	-	-195.0
Area 5	MW-3	3/11/2004	**7.6**	**4,700**	**680**	2.0 U	**620**	2.0 U	**420**	**11**	**11,000**	**8,400**	0.005 U	0.005 U	27,000	-	200	4.4	6.1	2.0 U	6.58	0.972	4.30	0.62	13.9	-161.0
Area 5	MW-3	6/2/2004	4.5	**1,800**	2.0 U	2.0 U	2.0 U	2.0 U	**670**	**150**	**150,000**	**23,000**	0.005 U	0.014	31,000	-	810	0.98 J	290	2.0 U	6.95	1.905	38.7	0.10	15.7	-149.0
Area 5	MW-3	9/21/2004	5.2	**1,900**	**210**	2.0 U	**250**	**3.5**	**660**	**200 J**	**200,000 J**	**7,200**	0.086	0.005 U	28,000	1.0 J	310	4.3 J	17	2.0 U	6.66	0.725	2.27	0.95	11.1	-153.6
Area 5	MW-3	12/13/2004	1.0 U	**750**	2.0 U	2.0 U	2.0 U	**610**	**510**	**160**	**160,000**	**5,400**	0.092	3.5	17,000	1.1	210	1.4 J	8.0	2.0 U	6.62	1.009	15.1	1.60	13.9	-103.3
Area 5	MW-3	3/28/2005	50 U	**1,000**	**23 J**	50 U	**16 J**	**280**	**670**	**150**	**150,000**	**7,300**	0.005 U	5.1	25,000	0.2 U	405	1.0 U	21	7.5 J	6.49	1.260	2.37	0.34	14.4	-134.9
Area 5	MW-3	8/10/2005	5.1	**120**	**440**	2.0 U	**80**	**760**	**680**	**180**	**180,000**	**4,400**	0.061 J	13	22,000	0.05 U	338	2.0 U	43	8.0	11.13	1.401	28.9	0.71	15.7	-118.5
Area 5	MW-3	9/27/2005	**9.1**	**180**	**1,100**	1.8	**240**	**360**	**480**	**71 J**	**71,000 J**	**2,500**	0.020 J	40	22,000	0.05 U	97	9.9J	5.6	3.4	6.36	0.660	2.80	0.21	14.5	-91.2
Area 5	MW-3	12/12/2005	10 U	52	**37**	20 U	**67**	**480**	**566**	**100**	**100,000**	-	0.055	100	26,000	0.083 J	180	2.0 U	18	5.6	6.66	1.087	8.00	0.11	15.7	-152.7
Area 5	MW-3	3/20/2006	3.9	**120**	**620**	3.1	**350**	**220**	**440**	**85**	**85,000**	**3,600**	0.025 U	130	25,000	0.2 U	110	6.3	13	1.0 U	6.95	0.871	3.71	0.77	14.9	-106.2
Area 5	MW-3	6/22/2006	1.0 U	4.0	2.0 U	7.6	2.0 U	**6.1**	**520**	**87**	**87,000**	**3,300**	0.023 J	180	20,000	0.2 U	98	1.0 U	4.0 J	1.0 U	6.40	1.012	4.18	0.22	13.0	-127.0
Area 5	MW-3	9/20/2006	5.6	**130**	**360**	12	**420**	**200**	**580**	**70**	**70,000**	**3,300**	0.015 J	95	17,000	0.2 U	70	7.9	9.6	1.4	6.52	0.729	3.56	0.28	13.3	-108.5
Area 5	MW-3	3/27/2007	1.0 U	19	2.0 U	12	**31**	**27**	**560**	**110**	**110,000**	**3,300 J**	0.025 U	130	18,000	-	-	3.2	5.2	1.0 U	6.28	0.944	2.64	0.19	13.6	21.0
Area 5	MW-3	6/11/2007	1.0 U	5.4	2.0 U	15	5.0	**8.0**	**570**	**190**	**190,000**	**5,000**	0.038	150	32,000	-	-	12	67	2.2	6.56	1.405	17.3	0.58	12.3	-124.7
Area 5	MW-3	9/11/2007	2.6	**100**	**610**	6.4	**470**	**97**	**530**	**100**	**100,000**	**3,600**	-	-	-	0.2 U	150	400	-	1.0 U	6.76	1.016	6.80	0.23	13.5	-130.0
Area 5	MW-3	10/12/2007	-	-	-	-	-	-	-	-	-	-	0.025 U	120	34,000	-	-	-	3.8 J	-	-	-	-	-	12.5	-
Area 5	MW-3	12/13/2007	2.4	59	**250**	8.8	**180**	**78**	**420**	**91**	**91,000**	**4,400**	0.016 J	130	30,000	-	-	10	4.1 J	1.0 U	6.60	1.040	15.7	0.27	19.2	-159.8
Area 5	MW-3	3/10/2008	1.0 U	2.0 U	2.0 U	8.3	2.0 U	2.0 U	**530**	**140**	**140,000**	**3,300**	18	35	29,000	-	-	5.0 U	16	2.4	6.46	1.402	5.50	0.12	14.3	-113.0
Area 5	MW-3	10/6/2008	5.0 U	5.0 U	5.0 U	11	5.0 U	5.0 U	**482**	**112**	**112,000**	**3,720**	1.3 U	72	28,000	0.13 U	210	7.0 U	10 U	0.03 U	6.49	1.070	9.30	0.24	21.5	-158.6
Area 5	MW-3	1/21/2009	1.2 U	1.6 J	1.4 U	9.2	2.3 U	1.9	**556**	**114 J**	**114,000 J**	**3,350**	3.2	58	40,000	0.13 U	160	7.0 U	10 U	0.03 U	6.69	1.044	4.01	0.50	15.5	-79.9
Area 5	MW-3	5/7/2009	2.0 U	48	2.0 U	17	**59**	**66**	**519**	**115**	**115,000**	**3,630**	1.3	70	47,000	0.13 U	360 J	22	7.0 J	0.03 U	6.26	1.205	4.54	1.03	18.9	-89.9
Area 5	MW-3	10/19/2009	2.0 U	25	2.0 U	9.4	**35**	**40**	**551**	**120**	**120,000**	**5,330**	1.2 U	36	25,000	0.13 U	490	28	6.7 J	0.03 U	6.24	1.494	25.6	0.60	15.5	-62.6
Area 5	MW-3	4/20/2010	0.5 U	0.47 J	0.5 U	4.7 J	0.48 J	**2.5 J**	**526**	**136 J**	**136,000 J**	**3,200**	10	19	47,000	0.13 U	440	3.4 J	9.0 J	0.03 U	6.33	1.445	0.09	0.16	11.1	5.4
Area 5	MW-3	10/5/2010	0.5 U	3.4	0.5 U	7.5	4.8	**20**	**444**	**76**	**76,000**	**3,560**	1.2 U	69	32,000	0.13 U	750	4.5 J	10 U	0.03 U	6.20	1.799	0.58	0.20	11.9	-85.9
Area 5	MW-3	6/8/2011	0.5 U	0.93	0.5 U	4.4	0.66	**17**	**374**	**54**	**53,600**	**2,570**	4.5	18	100,000	0.13 U	690	1.7 J	12	0.03 U	6.34	1.232	3.56	0.30	12.0	-91.1
Area 5	MW-3	10/3/2011	0.5 U	0.52	0.5 U	1.7	0.5 U	1.0	**385**	**46**	**45,800**	**2,760**	1.2 U	1.5 U	40,000	0.13 U	730	0.74 J	10	0.03 U	6.47	1.544	0.90	0.13	12.1	-88.1
Area 5	MW-3	5/8/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**276**	**27**	**27,000**	**3,140**	51	110	66,000	0.13 U	600	0.82 J	7.5 J	0.03 U	6.77	1.856	4.60	0.08	12.2	-107.2
Area 5	MW-3	10/10/2012	0.5 U	0.5 U	0.5 U	0.54	0.5 U	1.2	**267**	**26**	**25,700**	**4,810**	61	100	36,000	0.13 U	520	1.4 J	5.6 J	0.03 U	6.45	1.738	0.92	0.51	12.1	-87.6
Area 5	MW-3	5/21/2013	0.5 U	0.30 J	0.5 U	0.39 J	0.5 U	0.75	**281**	**25**	**24,700**	**6,460**	1.2 U	1.5 U	10,000	0.13 U	530 J	0.64 J	4.3 J	0.03 U	6.76	1.277	2.75	0.12	11.5	-105.2
Area 5	MW-3	10/16/2013	0.5 U	0.36 J	0.5 U	0.32 J	0.21 J	0.94	**298**	**27**	**26,600**	**7,970**	12	11	38,000	0.13 U	510	1.9 J	5.2 J	0.03 U	6.75	1.437	< 0.01	0.40	12.0	-87.4
Area 5	MW-3	6/11/2014	0.5 U	0.5 U	0.5 U	0.37 J	0.5 U	0.83	**354**	**34 J**	**34,000 J**	**11,100**	2.9 J	1.6 U	5,100 J	0.13 U	330 J	1.2 U	8.3 J	0.03 U	6.70	1.062	6.18	0.51	11.8	-67.6
Area 5	MW-3	10/29/2014	0.5 U	0.68	0.5 U	0.38 J	0.27 J	0.53	**334**	**30 J**	**30,000 J**	**10,500 J**	3.8	1.5 U	13,000	0.13 U	370	2.4 J	5.2 J	0.03 U	6.80	0.756	3.79	0.34	12.0	-110.1

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 5	MW-3	6/23/2015	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**409**	**37**	**37,100**	**11,000**	5.0 U	5.0 U	4,830	0.11 U	366	5.1 J	5.0	1.0 U	6.34	1.262	5.85	1.07	14.2	-89.4
Area 5	MW-3	10/15/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.54 J	**420**	**42**	**41,900**	**12,600**	10 U	10 U	4,570	0.071	349	10 U	4.9	2.0 U	6.97	1.215	1.38	0.48	13.9	-112.1
Area 5	MW-3	2/10/2016	1.0 U	1.0	1.0 U	1.0 U	1.0 U	0.88 J	**423**	**49**	**49,000**	**12,000**	10 U	10 U	7,260	0.094 J	341	10 U	5.4	2.0 U	6.72	0.851	10.5	1.12	9.1	-109.7
Area 5	MW-3	6/16/2016	1.0 U	1.5	1.0 U	1.0 U	1.0 U	0.89 J	**410**	**45**	**45,000**	**9,800**	3.0	1.0 U	20,000	0.05 U	350	1.3	6.1	1.0 U	6.81	1.360	4.93	0.66	14.3	-77.4
Area 5	MW-3	11/11/2016	1.0 U	1.7	1.0 U	1.0 U	0.96 J	1.6	**410**	**47**	**47,000**	**9,500**	2.9	1.0 U	7,000	0.05 U	370	1.4	6.4	1.0 U	7.22	0.871	7.77	0.83	12.7	-97.8
Area 5	MW-3	5/17/2017	1.0 U	0.75 J	1.0 U	1.0 U	1.0 U	1.0 U	**500**	**56**	**56,000**	**9,400**	1.8	1.0 U	10,000	0.073 J	310	2.2	5.2	1.0 U	6.78	0.909	6.29	0.63	12.7	-112.4
Area 5	MW-3	10/11/2017	1.0 U	1.0	1.0 U	1.0 U	1.0 U	0.60 J	**440**	**56**	**56,000**	**9,200**	1.9	1.0 U	5,500	0.06 J	280	0.62 J	5.0	1.0 U	6.60	1.200	4.33	0.69	13.4	-102.3
Area 5	MW-3	10/29/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**470**	**51**	**51,000**	**8,300**	-	-	-	-	-	-	-	-	6.80	1.211	4.13	1.05	11.6	-102.0
Area 5	MW-3	10/17/2019	1.0 U	0.71 J	1.0 U	1.0 U	1.0 U	1.0 U	**510**	**42**	**42,000**	**7,000**	-	-	-	-	-	-	-	-	6.70	1.100	7.60	1.10	12.0	-100.0
Area 5	MW-3	10/15/2020	1.0 U	0.49 J	1.0 U	1.0 U	1.0 U	1.0 U	**610**	**43**	**43,000**	**7,300**	-	-	-	-	-	-	-	-	6.91	0.716	1.89	0.23	13.9	-120.0
Area 5	MW-3	10/12/2021	1.0 U	0.51 J	2.0 U	1.0 U	1.0 U	1.0 U	**530**	**41**	**41,000**	**8,900**	-	-	-	-	-	-	-	-	6.82	1.641	13.87	1.12	12.6	-108.0
Area 5	MW-3	10/6/2022	1.0 U	0.31 J	1.0 U	1.0 U	0.5 U	0.40 J	**650**	**42**	**42,000**	**8,200**	-	-	-	-	-	-	-	-	6.90	0.804	2.81	0.81	19.3	-129.3
Area 5	MW-3	10/18/2023	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	**650 J**	**42**	**52,000 J**	**11,000 J**	-	-	-	-	-	-	-	-	6.58	1.040	17.90	0.29	12.8	-115.0
Area 5	MW-3	11/12/2024	1.0 U	0.33 J	1.0 U	1.0 U	0.25 J	1.0 U	**660**	**61**	**61,000**	**12,000**	-	-	-	-	-	-	-	-	6.49	0.96	15.9	0.93	11.5	-120
Area 5	MW-7	2/14/2002	1.0 U	2.0 U	**5,900**	2.0 U	4.5	2.0 U	5.0 U	1.0 U	1,000 U	170 J	0.12	0.080	8.4	-	-	20	-	0.6 J	6.12	0.787	90.0	1.58	18.8	104.0
Area 5	MW-7	3/14/2002	1.0 U	2.0 U	**5,700**	2.0 U	4.2	2.0 U	5.0 U	1.0 U	1,000 U	1,000 U	0.094	0.18	5.9 J	4.1	-	22 J	2.0 J	2.0 U	6.12	0.808	8.85	2.29	12.8	203.0
Area 5	MW-7	4/17/2002	1.0 U	2.0 U	**4,200**	2.0 U	2.9	2.0 U	2.3 J	1.0 U	1,000 U	1,000 U	0.072	0.20	6.0	4.2	-	18 J	5.0 U	1.6 J	6.11	0.656	19.5	0.50	-	145.0
Area 5	MW-7	5/16/2002	1.0 U	2.0 U	**5,700**	2.0 U	4.3	2.0 U	5.0 U	1.0 U	1,000 U	1,000 U	0.097	0.20	9.0	4.3	-	18 J	5.0 U	2.0 U	6.05	0.759	23.9	0.21	10.9	185.0
Area 5	MW-7	6/27/2002	10 U	2.0 U	**5,300**	2.0 U	3.8 J	2.0 U	5.0 U	1.0 U	1,000 U	170 J	-	-	-	4.2	-	19 J	5.0 U	2.0 U	6.13	1.198	100	0.73	11.1	163.0
Area 5	MW-7	8/27/2002	1.0 U	2.0 U	**4,700**	2.0 U	3.5	2.0 U	5.0 U	-	-	-	-	-	-	-	29	-	5.0 U	-	6.13	0.632	1.86	0.29	12.0	136.0
Area 5	MW-7	10/30/2002	1.0 U	2.0 U	**5,400**	2.0 U	2.7	2.0 U	5.0 U	1.0 U	1,000 U	200 J	0.047	0.18	20	4.9	23	16	5.0 U	2.0 U	6.05	0.779	3.63	0.37	11.9	66.0
Area 5	MW-7	12/14/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-	12.0	-
Area 5	MW-7	1/30/2003	1.0 U	2.0 U	**4,700**	2.0 U	3.1	2.0 U	5.0 U	1.0 U	1,000 U	-	0.044	0.075	23	-	19	16	5.0 U	-	5.80	0.773	1.08	2.20	13.4	171.0
Area 5	MW-7	9/24/2003	1.0 U	2.0 U	**4,200**	2.0 U	3.3	2.0 U	5.0 U	1.0 U	1,000 U	140	0.015	0.027	58	-	-	-	5.0 U	-	3.40	0.691	0.30	1.43	-	522.0
Area 5	MW-7	1/8/2004	1.0 U	2.0 U	**4,300**	2.0 U	2.8	2.0 U	5.0 U	1.0 U	1,000 U	130	0.011	0.026	25	-	27	14 J	5.0 U	2.0 U	6.02	0.481	15.0	0.00	11.6	198.0
Area 5	MW-7	3/12/2004	1.0 U	2.0 U	**3,100**	2.0 U	2.7	2.0 U	5.0 U	1.0 U	1,000 U	120	0.020	0.28	6.3	-	24	15 J	1.0 U	2.0 U	6.04	0.556	1.00	0.47	14.0	162.0
Area 5	MW-7	6/3/2004	1.0 U	2.0 U	**2,900**	2.0 U	2.6	2.0 U	5.0 U	1.0 U	1,000 U	110	0.012	0.034	34	-	24	15 J	1.5 J	2.0 U	5.96	0.580	1.92	0.31	-	205.2
Area 5	MW-7	9/21/2004	1.0 U	3.1	**2,900**	2.0 U	3.4	2.0 U	5.0 U	1.0 U	1,000 U	110	-	-	-	-	-	-	-	-	5.98	0.580	< 0.01	0.21	11.1	240.4
Area 5	MW-7	9/27/2005	2.5 U	5.8	**1,600**	2.5 U	3.7	2.5 U	5.0 U	0.2 J	200 J	110	-	-	-	-	-	-	-	-	4.49	0.593	3.39	0.93	11.9	304.1
Area 5	MW-7	9/22/2006	1.0 U	7.7	**4,400**	2.0 U	**9.8**	2.0 U	5.0 U	0.1 U	100 U	100	-	-	-	-	-	-	-	-	5.99	0.503	3.01	1.19	12.7	140.9
Area 5	MW-7	9/11/2007	1.0 U	22	**1,200**	2.0 U	**11**	2.0 U	6.0 U	0.1 U	100 U	110	-	-	-	-	-	-	-	-	5.98	0.691	5.90	0.32	-	139.9
Area 5	MW-7	10/20/2008	20 U	**150**	**600**	20 U	**40**	20 U	8.0 U	0.2 U	200 U	166	-	-	-	-	-	-	-	-	5.97	0.804	2.00	1.39	14.7	71.9
Area 5	MW-7	10/19/2009	10 U	**270**	**97**	10 U	**33**	10 U	4.2 J	1.7	1,700	**2,170**	-	-	-	-	-	-	-	-	6.03	1.686	1.91	0.47	14.6	76.7
Area 5	MW-7	10/6/2010	2.5 U	**120**	**45**	2.5 U	**9.5**	**3.1**	5.7	1.5	1,460	**2,090**	-	-	-	-	-	-	-	-	6.53	2.072	4.81	0.21	11.5	-21.6
Area 5	MW-7	10/6/2011	0.5 U	20	1.6	0.5 U	3.7	**6.8**	**53**	**5.4**	**5,440**	**5,070**	-	-	-	-	-	-	-	-	6.60	1.717	3.00	0.49	-	-48.8
Area 5	MW-7	10/12/2012	0.5 U	9.9	2.3	0.70	2.3	**11**	**140**	**21**	**20,500**	**9,900**	-	-	-	-	-	-	-	-	6.38	1.253	< 0.01	0.65	-	-65.0
Area 5	MW-7	10/17/2013	0.5 U	13	1.5	0.24 J	**6.9**	**2.2**	**156**	**21**	**20,900**	**9,360**	-	-	-	-	-	-	-	-	6.72	1.152	< 0.01	0.58	10.5	-68.2
Area 5	MW-7	11/3/2014	0.5 U	13	1.7	0.27 J	**8.4**	1.5	**205**	**30**	**29,900**	**15,300**	-	-	-	-	-	-	-	-	6.62	0.878	1.94	0.41	10.3	-74.2
Area 5	MW-7	10/15/2015	1.0 U	12	1.0 U	1.0 U	1.7	1.1	**198**	**30**	**30,200**	**15,100**	-	-	-	-	-	-	-	-	6.83	0.926	1.50	0.84	11.3	-68.2
Area 5	MW-7	11/14/2016	1.0 U	22	1.0 U	1.0 U	1.4	**37**	**110**	**19**	**19,000**	**13,000**	-	-	-	-	-	-	-	-	6.01	0.770	7.42	1.24	13.2	-63.5
Area 5	MW-7	10/11/2017	1.0 U	1.4	1.0 U	1.0 U	0.53 J	**15**	**160**	**20**	**20,000**	**19,000**	-	-	-	-	-	-	-	-	6.37	0.730	2.75	0.67	12.7	-30.1
Area 5	MW-7	10/29/2018	1.0 U	0.95 J	1.0 U	1.0 U	1.0 U	1.0 U	**250**	**20**	**20,000**	**14,000**	-	-	-	-	-	-	-	-	6.17	1.018	19.6	0.46	12.8	-56.8
Area 5	MW-7	10/30/2019	-	-	-	-	-	-	**400**	**23**	**23,000**	**12,000**	-	-	-	-	-	-	-	-	6.40	0.980	96.0	0.41	13.0	-52.0
Area 5	MW-7	12/20/2019	1.0 U	1.3	1.0 U	1.0 U	0.79 J	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.79	0.626	15.2	2.43	9.9	-110.7
Area 5	MW-7	10/15/2020	1.0 U	2.2 J	1.0 U	1.0 U	1.0 U	2.0 J	**470**	**22**	**22,000**	**10,000**	-	-	-	-	-	-	-	-	6.80	0.602	2.59	0.27	14.1	-94.9
Area 5	MW-7	10/12/2021	1.0 U	3.0	2.0 U	1.0 U	0.65 J	1.6	**490**	**26**	**26,000**	**11,000**	-	-	-	-	-	-	-	-	6.61	1.398	30.98	0.72	11.1	-93.5
Area 5	MW-7	10/6/2022	1.0 U	3.1	1.0 U	1.0 U	0.63 J	**2.7**	**130**	**8.6**	**8,600**	**13,000**	-	-	-	-	-	-	-	-	6.68	0.711	4.12	0.84	21.9	-89.9
Area 5	MW-7	10/18/2023	1.0 U	0.56 J	1.0 U	1.0 U	0.5 U	1.0 U	**570**	**8.6**	**33,000**	**15,000**	-	-	-	-	-	-	-	-	6.14	1.065	8.40	0.16	12.6	-54.8
Area 5	MW-7	11/12/2024	1.0 U	1.0 J	1.0 U	1.0 U	0.2 J	1.0 U	**780**	**39**	**39,000**	**12,000**	-	-	-	-	-	-	-	-	---	---	---	---	---	---
Area 5	XSA-12-95X	10/12/2012	5.0 U	66	**290**	5.0 U	**36**	**10**	4.6 J	**9.5**	**9,530**	**11,800**	-	-	-	-	-	-	-	-	6.53	1.247	45.0	2.04	12.8	-63.9
Area 5	XSA-12-95X	10/15/2013	5.0 U	**100**	**160**	4.7 J	**51**	**6.5**	**13**	**5.2**	**5,170**	**9,890**	-	-	-	-	-	-	-	-	6.59	1.411	24.4	0.30	13.1	-254.4
Area 5	XSA-12-95X	10/28/2014	0.47 J	**94**	**110**	5.0	**39**	**9.0**	8.3	**4.5 J**	**4,500 J**	**9,310 J**	-	-	-	-	-	-	-	-	6.90	0.906	20.2	0.18	14.2	-315.7
Area 5	XSA-12-95X	10/19/2015	6.7	1.0 U	**27**	1.0 U	**20**	**7.2**	4.0 U	**4.8**	**4,770**	**10,600**	-	-	-	-	-	-	-	-	7.97	1.385	15.3	1.77	-	-103.6
Area 5	XSA-12-95X	11/14/2016	1.0 U	**78**	**23**	4.3	**9.8**	**7.4**	3.0 U	1.9	1,900	**8,400**	-	-	-	-	-	-	-	-	6.58	1.048	28.1	1.21	12.7	-59.7
Area 5	XSA-12-95X	10/10/2017	1.0 U	26	**36**	3.1	**11**	**5.6**	3.2	**7.8**	**7,800**	**9,700**	-	-	-	-	-	-	-	-	6.65	1.410	19.5	0.35	14.7	-85.3
Area 5	XSA-12-95X	10/23/2018	1.0 U	11	**13**	2.2	5.0	1.9	3.2	**3.3**	**3,300**	**11,000**	-	-	-	-	-	-	-	-	6.58	1.198	29.4	0.21	9.6	-2.1
Area 5	XSA-12-95X	10/15/2020	1.0 U	6.1	**6.9**	2.2	3.9	1.0 U	3.0	1.9	1,900	**11,000**	-	-	-	-	-	-	-	-	6.79	1.230	202.0	0.61	15.7	-89.7
Area 5	XSA-12-95X	10/13/2021	1.0 U	4.3	2.8	1.7	2.7	0.86 J	2.2 J	**3.5**	**3,500**	**11,000**	-	-	-	-	-	-	-	-	6.83	1.179	30.7	0.02	13.6	-99.5
Area 5	XSA-12-95X	10/6/2022	1.0 U	1.5 J	0.63 J	0.65 J	0.77 J	1.0 U	1.9 J	1.6	1,600	**12,000**	-	-	-	-	-	-	-	-	6.95	1.383	107.1	1.15	12.7	-45.4
Area 5	XSA-12-95X	10/18/2023	1.0 U	2.2	1.5 J	0.61 J	0.74 J	1.0 U	3.1 J	1.6	1,500	**15,000**	-	-	-	-	-	-	-	-	6.53	1.130	13.9	0.04	11.9	-30.9
Area 5	XSA-12-95X	11/15/2024	1.0 U	1.1 J	1.0 U	1.0 U	0.24 J	1.0 U	1.2 J	2.5	2,500	**15,000**	-	-	-	-	-	-	-	-	6.69	1.01	24.1	1.28	13.1	-88
Area 5	XSA-12-96X	10/10/2012	2.0 U	14	**120**	2.0 U	4.4	2.0 U	5.0 U	**3.1**	**3,130**	97	-	-	-	-	-	-	-	-	6.52	0.782	3.90	0.72	12.3	-87.1
Area 5	XSA-12-96X	10/15/2013	2.5 U	17	**100**	2.5 U	**11**	**3.7**	3.7 J	0.94	940	**2,840**	-	-	-	-	-	-	-	-	6.46	0.824	0.90	0.27	15.9	-271.6
Area 5	XSA-12-96X	10/28/2014	0.36 J	22	**84**	2.3	**14**	**6.0**	3.2 J	0.925 J	925 J	**5,720 J**	-	-	-	-	-	-	-	-	6.73	0.625	4.83	0.14	12.1	-300.6
Area 5	XSA-12-96X	10/26/2015	3.4	1.0 U	**30**	1.0 U	**14**	**10**	4.0 U	2.2	2,190	**7,340**	-	-	-	-	-	-	-	-	6.34	0.787	9.41	0.66	13.0	-77.9
Area 5	XSA-12-96X	11/14/2016	0.59 J	20	**29**	4.9	**19**	**11**	3.0 U	1.2	1,200	**6,300**	-	-	-	-	-	-	-	-	5.63	0.733	9.26	0.66	11.7	-25.5
Area 5	XSA-12-96X	10/10/2017	0.64 J	20	**26**	5.0	**20**	**16**	3.0 U	**8.2**	**8,200**	**6,200**	-	-	-	-	-	-	-	-	6.48	1.120	9.27	0.69	14.2	-38.6
Area 5	XSA-12-96X	4/3/2018	0.69 J	23	**27**	5.7	**22**	**16**	3.0 U	**3.2**	**3,200**	**4,400**	-	-	-	-	-	-	-	-	7.15	0.988	14.2	1.31	9.1	-187.3
Area 5	XSA-12-96X	10/31/2018	1.0 U	21	**24**	3.2	**9.1**	**4.7**	2.9 J	**5.1**	**5,100**	**10,000**	-	-	-	-	-	-	-	-	6.53	1.221	20.8	0.38	10.5	-54.7
Area 5	XSA-12-96X	4/19/2019	0.48 J	9.9	**10**	2.9	**13**	**8.0**	3.0 U	**3.3**	**3,300**	**3,900**	2.9	1.0 U	270	-	-	-	4.8	-	6.90	1.000	10.0	1.20	17.0	-100.0
Area 5	XSA-12-96X	10/30/2019	-	-	-	-	-	-	5.5	**3.5**	**3,500**	**9,900**	-	-	-	-	-	-	-	-	6.70	1.500	11.0	0.43	12.0	-56.0

Appendix D
Historical Groundwater Analytical Results
2024 Annual Operations, Maintenance, and Monitoring Report
Area of Contamination 50, Former Fort Devens Army Installation
Devens, Massachusetts

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
Area 5	XSA-12-96X	11/6/2019	0.90 J	20	**13 J**	6.7	**24**	**23**	3.0 U	2.2	2,200	**5,300**	-	-	-	-	-	-	-	-	6.92	1.032	10.1	1.15	17.1	-100.9
Area 5	XSA-12-96X	12/26/2019	1.0 U	11	**11**	2.7	4.9	1.8	-	-	-	-	-	-	-	-	-	-	-	-	6.61	1.298	3.80	0.86	9.2	-55.9
Area 5	XSA-12-96X	05/12/2020	0.88 J	25	4.2	7.0	**20 J**	**21**	3.0 U	**4.2**	**4,200**	**5,800**	11	1.1	780	0.10 U	240	6.2	1.5	1.0 U	6.76	1.240	8.94	9.89	11.5	-64.3
Area 5	XSA-12-96X	10/15/2020	1.0 U	12	**7.4**	5.4	**16**	**15**	3.0 U	**3.2**	**3,200**	**5,900**	18	1.3	1,800	0.05 U	220	9.2	1.5	0.81 U	6.56	1.080	24.8	0.63	15.3	-75.8
Area 5	XSA-12-96X	5/14/2021	1.0 U	10	2.9	4.6	**10**	**9.5**	1.8 J	2.3	2,300	**5,400**	-	-	-	-	-	-	-	-	6.71	1.183	90.5	0.11	13.2	-49.1
Area 5	XSA-12-96X	10/13/2021	1.0 U	8.6	2.1	3.1	**8.3**	**4.4**	1.6 J	2.2	2,200	**5,600**	0.66 J	0.71 U	25	0.05 U	250	5.7	0.8 U	0.81 U	7.43	1.212	330.0	0.01	14.8	-131.2
Area 5	XSA-12-96X	5/2/2022	1.0 U	9.4	**5.9**	3.9	**9.3**	**8.0**	1.4 J	2.1	2,100	**5,400**	-	-	-	-	-	-	-	-	6.43	1.120	170.0	0.53	10.7	-43.8
Area 5	XSA-12-96X	10/7/2022	1.0 U	4.5	1.4 J	2.8	4.2	**4.0**	1.7 J	1.9	1,900	**5,200**	-	-	-	-	-	-	-	-	6.87	1.400	59.9	0.97	12.8	-63.6
Area 5	XSA-12-96X	6/6/2023	1.0 U	5.3	1.7 J	3.3	4.4	**4.2**	1.8 J	2.3	2,300	**5,700**	-	-	-	-	-	-	-	-	6.54	1.270	138.0	0.37	12.8	-91.3
Area 5	XSA-12-96X	11/13/2023	1.0 U	7.5	4.8	3.7	**7.7**	**7.9**	1.8 J	2.3	2,000	**5,100**	-	-	-	-	-	-	-	-	6.48	1.400	8.7	1.17	9.7	-31.7
Area 5	XSA-12-96X	4/22/2024	1.0 U	3.4	1.0 U	2.0	0.5 U	**2.0**	1.8 J	1.7	1,700	**5,600**	-	-	-	-	-	-	-	-	6.57	1.09	13.0	0.83	12.5	-32.0
Area 5	XSA-12-96X	11/13/2024	1.0 U	3.6	1.2 J	2.2	2.5	**2.7**	1.8 J	2.5	2,500	**4,200**	-	-	-	-	-	-	-	-	6.57	1.12	12.9	0.13	10.6	-52.9
Area 5	XSA-12-97X	10/9/2012	0.5 U	0.5 U	2.1	0.5 U	0.5 U	0.5 U	5.0 U	1.4 J	1,400 J	44	-	-	-	-	-	-	-	-	6.66	0.673	33.8	1.30	11.7	-11.9
Area 5	XSA-12-97X	10/16/2013	0.5 U	0.5 U	2.9	0.5 U	0.5 U	0.5 U	5.0 U	2.3	2,250	29	-	-	-	-	-	-	-	-	6.74	0.721	19.6	1.74	12.1	-21.9
Area 5	XSA-12-97X	10/30/2014	0.5 U	0.5 U	**5.6**	0.5 U	0.5 U	0.5 U	2.5 U	0.44	435	9.1 J	-	-	-	-	-	-	-	-	6.51	0.522	17.5	1.52	17.2	51.8
Area 5	XSA-12-97X	10/19/2015	1.0 U	1.0 U	**7.4**	1.0 U	1.0 U	1.0 U	4.0 U	0.77	771	15	-	-	-	-	-	-	-	-	6.62	0.614	13.9	1.39	10.0	31.9
Area 5	XSA-12-97X	11/14/2016	1.0 U	1.0 U	**10**	1.0 U	1.0 U	1.0 U	3.0 U	0.77	770	12	-	-	-	-	-	-	-	-	7.62	0.526	18.4	1.68	11.6	-57.9
Area 5	XSA-12-97X	10/10/2017	1.0 U	1.0 U	**8.0**	1.0 U	1.0 U	1.0 U	3.0 U	1.5	1,500	78	-	-	-	-	-	-	-	-	7.88	0.813	9.83	0.28	16.8	-130.3
Area 5	XSA-12-97X	10/29/2018	1.0 U	1.0 U	**6.1**	1.0 U	1.0 U	1.0 U	3.0 U	2.3	2,300	49	-	-	-	-	-	-	-	-	9.82	0.682	27.2	0.34	7.9	-283.0
Area 5	XSA-12-97X	10/15/2019	1.0 U	2.9	**9.2**	1.0 U	0.98 J	1.0 U	2.2 J	2.4	2,400	200	-	-	-	-	-	-	-	-	6.90	0.980	19.0	0.72	12.0	-47.0
Area 5	XSA-12-97X	11/22/2020	1.0 U	6.2	2.0 U	1.0 U	1.0 U	1.0 U	**51**	2.7	2,700	**2,700**	-	-	-	-	-	-	-	-	7.13	0.561	4.73	0.69	10.0	-401.0
Area 5	XSA-12-97X	10/14/2021	1.0 U	11	2.0 U	1.0 U	1.0 U	**3.3**	**21**	**4.8**	**4,800**	**7,400**	-	-	-	-	-	-	-	-	7.07	0.902	124.7	0.01	14.0	-81.2
Area 5	XSA-12-97X	10/7/2022	1.0 U	0.39 J	1.0 U	1.0 U	0.5 U	**1.0 U**	**200**	**7.6**	**7,600**	**10,000**	-	-	-	-	-	-	-	-	7.07	0.985	102.5	0.81	15.6	-120.0
Area 5	XSA-12-97X	6/15/2023	1.0 U	1.0 U	1.0 U	1.0 U	0.28 J	1.0 U	**83**	**4.1**	**4,100**	**4,400**	-	-	-	-	-	-	-	-	7.23	0.760	147.0	1.30	17.7	-179.0
Area 5	XSA-12-98X	10/11/2012	0.5 U	0.50	**10**	0.5 U	0.59	0.5 U	5.0 U	1.4	1,420	18 J	-	-	-	-	-	-	-	-	7.75	0.308	8.89	0.76	13.1	-60.1
Area 5	XSA-12-98X	10/16/2013	0.5 U	0.47 J	**5.2**	0.5 U	0.34 J	0.5 U	3.1 J	0.1 U	100 U	6.6 J	-	-	-	-	-	-	-	-	7.89	0.413	51.0	0.51	10.5	-39.8
Area 5	XSA-12-98X	10/29/2014	0.5 U	0.76	**5.5**	0.5 U	0.37 J	0.5 U	2.5 U	0.31	313	5.6 J	-	-	-	-	-	-	-	-	8.00	0.258	44.8	0.46	10.6	-293.1
Area 5	XSA-12-98X	10/19/2015	1.0 U	1.0 U	**6.3**	1.0 U	0.66 J	1.0 U	4.0 U	0.17	174	15 U	-	-	-	-	-	-	-	-	8.04	0.310	3.62	0.42	10.7	-194.4
Area 5	XSA-12-98X	11/11/2016	1.0 U	0.81 J	**5.6**	1.0 U	0.69 J	1.0 U	3.0 U	0.095	95	3.1 J	-	-	-	-	-	-	-	-	7.98	0.233	16.1	0.52	9.7	-140.7
Area 5	XSA-12-98X	10/23/2017	1.0 U	0.70 J	5.0	1.0 U	0.60 J	1.0 U	3.0 U	0.088 J	88 J	2.8 J	-	-	-	-	-	-	-	-	7.35	0.387	5.42	0.26	11.5	-55.5
Area 5	XSA-12-98X	10/23/2018	1.0 U	1.0 U	2.8	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	3.0 U	-	-	-	-	-	-	-	-	7.71	0.948	4.99	0.25	12.0	-141.6
Area 5	XSA-12-98X	10/9/2019	1.0 U	0.47 J	**5.5**	1.0 U	0.52 J	1.0 U	3.0 U	0.088	88	1.7 J	-	-	-	-	-	-	-	-	7.70	0.380	3.50	0.62	11.0	-65.0
Area 5	XSA-12-98X	10/16/2020	1.0 U	0.61 J	4.1	1.0 U	1.0 U	1.0 U	3.0 U	0.15	150	4.9 J	-	-	-	-	-	-	-	-	7.72	0.360	4.10	0.86	12.3	-129.0
Area 5	XSA-12-98X	10/14/2021	1.0 U	1.0 U	0.83 J	1.0 U	1.0 U	1.0 U	3.0 U	0.41	410	30	-	-	-	-	-	-	-	-	8.20	1.200	69.90	0.01	15.9	-147.0
Area 5	XSA-12-98X	10/7/2022	1.0 U	1.0 U	3.4	1.0 U	0.5 U	1.0 U	3.0 U	0.071 J	71 J	4.1 J	-	-	-	-	-	-	-	-	7.85	0.347	2.80	0.70	13.1	423.4
Area 5	XSA-12-98X	10/18/2023	1.0 U	1.0 U	1.0 J	1.0 U	0.5 U	1.0 U	1.4 J	0.071 J	160	14	-	-	-	-	-	-	-	-	7.48	1.310	7.90	0.96	12.6	-217.0
Area 5	XSA-12-98X	11/15/2024	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	3.0 U	0.039 J	39 J	4.6 J	-	-	-	-	-	-	-	-	8.2	0.23	0.95	1.06	12.6	-130
Nashua River	G6M-04-08X	9/24/2004	1.0 U	2.0 U	4.2	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.29	0.632	52.8	0.81	15.7	-75.5
Nashua River	G6M-04-14X	11/16/2004	1.0 U	2.0 U	**12**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.3	-
Nashua River	G6M-04-14X	9/27/2005	1.0 U	2.0 U	**6.9**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.88	0.263	18.0	1.60	13.2	333.0
Nashua River	G6M-04-14X	9/21/2006	1.0 U	2.0 U	**9.4**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.98	0.211	15.7	3.00	11.1	26.1
Nashua River	G6M-04-14X	10/1/2007	1.0 U	2.0 U	**7.1**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.69	0.363	13.9	2.56	10.7	80.4
Nashua River	G6M-04-14X	10/21/2008	0.5 U	0.5 U	**7.1 J**	0.5 U	0.21 J	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	7.78	0.237	45.0	2.51	13.0	138.8
Nashua River	G6M-04-14X	10/15/2009	10 U	10 U	4.5 J	10 U	**250**	10 U	-	-	-	-	-	-	-	-	-	-	-	-	7.56	0.250	4.58	3.60	11.5	-69.7
Nashua River	G6M-04-14X	1/15/2010	0.75 U	0.5 U	4.5	0.75 U	0.22 J	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	7.73	0.293	12.5	25.3	11.6	166.2
Nashua River	G6M-04-14X	10/8/2010	0.5 U	0.5 U	2.4	0.5 U	0.25 J	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	7.55	0.307	100	1.92	12.5	72.7
Nashua River	G6M-04-14X	10/5/2011	0.5 U	0.5 U	2.2	0.5 U	0.5 U	0.5 U	6.8	0.1 U	100 U	25 U	-	-	-	-	-	-	-	-	7.68	0.172	20.4	2.62	11.1	99.9
Nashua River	G6M-04-14X	10/15/2012	0.5 U	0.5 U	3.3	0.5 U	0.5 U	0.5 U	9.6	0.19	194	7.7 J	-	-	-	-	-	-	-	-	7.71	0.297	21.7	2.58	16.3	-10.9
Nashua River	G6M-04-14X	10/18/2013	0.5 U	0.5 U	1.7	0.5 U	0.34 J	0.5 U	8.2	0.1 U	100 U	7.5 U	-	-	-	-	-	-	-	-	7.89	0.479	27.1	1.25	15.0	94.0
Nashua River	G6M-04-14X	10/31/2014	0.5 U	0.5 U	1.8	0.5 U	0.40 J	0.5 U	2.5 U	0.05 U	50 U	7.5 U	-	-	-	-	-	-	-	-	7.93	0.423	8.26	0.40	15.6	54.4
Nashua River	G6M-04-14X	10/26/2015	1.0 U	1.0 U	1.7	1.0 U	1.0 U	1.0 U	9.8	0.073 J	73 J	15 U	-	-	-	-	-	-	-	-	7.89	0.482	18.9	1.44	13.1	79.2
Nashua River	G6M-04-14X	11/11/2016	1.0 U	1.2	2.5	1.0 U	1.4	1.0 U	8.3	0.05 U	50 U	2.1 J	-	-	-	-	-	-	-	-	7.48	0.350	10.1	0.84	10.5	-106.7
Nashua River	G6M-04-14X	10/6/2017	1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U	7.1	0.017 J	17 J	3.2 J	-	-	-	-	-	-	-	-	7.50	0.997	5.26	0.46	12.9	69.9
Nashua River	G6M-04-14X	10/25/2018	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U	8.1	0.05 U	50 U	1.7 J	-	-	-	-	-	-	-	-	7.65	0.767	1.56	0.36	12.7	102.7
Nashua River	G6M-04-14X	10/15/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.4	0.021 J	21 J	7.1 J	-	-	-	-	-	-	-	-	7.70	0.600	13.0	0.74	12.0	-59.0
Nashua River	G6M-04-14X	10/19/2020	1.0 U	1.0 U	0.80 J	1.0 U	1.0 U	1.0 U	7.1	0.05 U	50 U	3.0 J	-	-	-	-	-	-	-	-	7.55	0.752	1.42	0.67	13.0	14.4
Nashua River	G6M-04-14X	10/15/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.3	0.054	54	6.4 J	-	-	-	-	-	-	-	-	7.55	0.752	1.42	0.67	13.0	14.4
Nashua River	G6M-04-14X	10/4/2022	1.0 U	1.0 U	0.54 J	1.0 U	0.29 J	1.0 U	9.7	0.026 J	26 J	6.8 J	-	-	-	-	-	-	-	-	8.37	0.572	5.60	1.37	13.4	-61.5
Nashua River	G6M-04-14X	10/18/2023	1.0 U	1.0 U	0.35 J	1.0 U	0.5 U	1.0 U	8.7	0.026 J	50 U	4.9 J	-	-	-	-	-	-	-	-	7.54	0.870	1.78	0.26	13.4	-25.3
Nashua River	G6M-04-14X	11/11/2024	1.0 U	1.0 U	0.67 J	1.0 U	0.39 J	1.0 U	8.7	0.050 U	50 U	5.4 J	-	-	-	-	-	-	-	-	7.47	0.47	3.88	1.16	13.7	61
North Plume	G6M-04-14X	12/14/2006	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.54	0.560	0.20	0.17	16.2	74.8
North Plume	G6M-96-22A	10/16/2001	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.50	2.000	< 0.01	5.10	16.0	210.0
North Plume	G6M-96-22A	2/28/2002	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	0.10 U	-	-	-	-	5.70	1.780	0.50	8.37	12.4	183.5
North Plume	G6M-96-22A	9/21/2004	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	54	-	-	-	-	-	-	-	-	5.75	1.885	1.59	6.73	11.6	187.9
North Plume	G6M-96-22A	9/29/2005	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	52	-	-	-	-	-	-	-	-	5.95	3.180	0.38	4.90	10.8	223.1
North Plume	G6M-96-22A	9/20/2006	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	42	-	-	-	-	-	-	-	-	5.68	1.814	1.85	4.78	11.0	176.3
North Plume	G6M-96-22A	9/12/2007	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	6.0 U	0.1 U	100 U	78	-	-	-	-	-	-	-	-	5.50	1.404	5.00	6.95	12.4	-101.1
North Plume	G6M-96-22A	10/17/2008	0.5 U	0.5 U	0.55	0.5 U	0.5 U	0.5 U	8.0 U	0.2 U	200 U	**2,240**	-	-	-	-	-	-	-	-	5.57	1.378	1.80	1.41	10.1	123.8
North Plume	G6M-96-22A	10/16/2009	0.5 U	0.27 J	0.25 J	0.5 U	**29**	0.5 U	8.0 U	0.2 U	200 U	**7,120**	-	-	-	-	-	-	-	-	5.91	2.288	< 0.01	0.25	11.3	228.5
North Plume	G6M-96-22A	10/7/2010	0.5 U	0.5 U	0.22 J	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	**7,670**	-	-	-	-	-	-	-	-	5.72	3.623	< 0.01	0.21	9.3	141.2
North Plume	G6M-96-22A	10/7/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	**6,860**	-	-	-	-	-	-	-	-	5.60	2.144	< 0.01	0.18	10.1	59.9

		Analytical Method	VOCs						Dissolved Metals				Dissolved Gases			General Chemistry					Field Parameters					
		Analyte	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Arsenic	Iron	Iron	Manganese	Ethane	Ethene	Methane	Nitrate/ Nitrite	Alkalinity	Sulfate	TOC	Sulfide	pH	SpC	Turbidity	DO	Temp	ORP
		Unit	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	(mS/cm)	(NTU)	(mg/L)	°C	(mV)
		Cleanup Level[1]	7	70	5	70	5	2	10	3.129	3,129	1,460				10,000										
Area	Well ID	Date Sampled																								
North Plume	G6M-96-22A	10/15/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	**12,400**	-	-	-	-	-	-	-	-	5.82	2.915	< 0.01	0.36	14.6	110.5
North Plume	G6M-96-22A	10/18/2013	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	**6,010**	-	-	-	-	-	-	-	-	6.05	1.524	< 0.01	0.58	11.1	177.1
North Plume	G6M-96-22A	11/4/2014	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.017 J	17 J	**3,160**	-	-	-	-	-	-	-	-	6.12	0.774	0.86	3.75	-	203.7
North Plume	G6M-96-22A	10/14/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	0.1 U	100 U	**3,810**	-	-	-	-	-	-	-	-	6.11	1.333	0.21	2.77	-	122.9
North Plume	G6M-96-22A	11/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	**2,300**	-	-	-	-	-	-	-	-	4.64	0.983	0.75	3.73	11.9	129.4
North Plume	G6M-96-22B	10/19/2001	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.76	2.090	0.60	6.95	13.1	176.0
North Plume	G6M-96-22B	2/28/2002	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	0.10 U	-	-	-	-	6.35	2.002	1.50	7.83	12.9	198.5
North Plume	G6M-96-22B	1/31/2003	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.5	-
North Plume	G6M-96-22B	9/21/2004	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	44	-	-	-	-	-	-	-	-	5.83	1.941	2.76	6.15	13.9	193.9
North Plume	G6M-96-22B	9/29/2005	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	1.0 U	1,000 U	48	-	-	-	-	-	-	-	-	6.12	3.020	1.43	5.57	11.2	187.7
North Plume	G6M-96-22B	9/20/2006	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	0.1 U	100 U	44	-	-	-	-	-	-	-	-	5.53	2.183	0.67	6.51	10.2	179.0
North Plume	G6M-96-22B	9/12/2007	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	6.0 U	0.1 U	100 U	40	-	-	-	-	-	-	-	-	5.73	2.618	13.9	16.1	11.9	-112.1
North Plume	G6M-96-22B	10/17/2008	0.5 U	0.24 J	0.91	0.5 U	0.5 U	0.5 U	8.0 U	0.2 U	200 U	67	-	-	-	-	-	-	-	-	5.40	1.020	0.85	1.77	11.6	121.3
North Plume	G6M-96-22B	10/16/2009	0.5 U	0.32 J	0.39 J	0.5 U	**23**	0.5 U	8.0 U	0.135 U	135 U	**25,500**	-	-	-	-	-	-	-	-	6.08	1.683	0.04	0.31	11.5	209.1
North Plume	G6M-96-22B	10/7/2010	0.5 U	0.5 U	0.25 J	0.5 U	0.5 U	0.5 U	3.3 J	0.1 U	100 U	**14,600**	-	-	-	-	-	-	-	-	6.00	2.295	0.49	0.48	12.9	115.1
North Plume	G6M-96-22B	10/7/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.1 U	100 U	**9,320**	-	-	-	-	-	-	-	-	5.98	1.899	< 0.01	0.16	11.3	30.7
North Plume	G6M-96-22B	10/15/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.120 U	120 U	**9,980**	-	-	-	-	-	-	-	-	6.14	2.358	1.17	0.25	12.4	16.4
North Plume	G6M-96-22B	10/18/2013	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.2 J	0.1 U	100 U	**14,100**	-	-	-	-	-	-	-	-	6.17	2.288	0.31	0.81	13.8	142.0
North Plume	G6M-96-22B	11/4/2014	0.5 U	0.5 U	0.21 J	0.5 U	0.5 U	0.5 U	4.6 J	0.017 J	17 J	**7,180**	-	-	-	-	-	-	-	-	6.58	1.087	3.55	0.45	17.2	137.4
North Plume	G6M-96-22B	10/14/2015	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	0.1 U	100 U	**5,610**	-	-	-	-	-	-	-	-	6.53	1.457	2.18	1.34	15.0	93.5
North Plume	G6M-96-22B	11/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.05 U	50 U	**6,500**	-	-	-	-	-	-	-	-	5.96	1.362	2.49	2.66	11.2	174.0
North Plume	G6M-96-24B	10/16/2001	1.0 U	2.0 U	**18**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.37	0.420	19.0	0.00	14.4	81.0
North Plume	G6M-96-24B	3/1/2002	1.0 U	2.0 U	**11**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.35	0.430	2.80	0.00	17.0	106.7
North Plume	G6M-96-24B	1/31/2003	1.0 U	2.0 U	**7.5**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.6	-
North Plume	G6M-96-24B	1/12/2004	1.0 U	2.0 U	**11**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.4	-
North Plume	G6M-96-24B	9/24/2004	1.0 U	2.0 U	**13**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.17	0.422	0.44	0.20	19.3	152.2
North Plume	G6M-96-24B	12/17/2004	1.0 U	2.0 U	**8.1**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.05	0.384	2.43	0.46	15.1	259.6
North Plume	G6M-96-24B	4/13/2005	1.0 U	2.8	**8.2**	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.32	0.429	2.49	0.20	10.8	216.6
North Plume	G6M-96-24B	7/6/2005	1.0 U	3.0	**7.6**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.69	0.770	0.02	1.34	14.1	242.8
North Plume	G6M-96-24B	12/15/2005	1.0 U	3.1	**7.4**	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.97	0.900	2.10	0.14	19.1	242.8
North Plume	G6M-96-24B	3/23/2006	1.0 U	2.0 U	4.2	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.99	0.458	1.31	0.23	12.8	404.5
North Plume	G6M-96-24B	6/23/2006	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	4.62	0.443	0.88	0.85	15.2	526.9
North Plume	G6M-96-24B	9/22/2006	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.93	0.407	4.23	0.30	16.9	141.0
North Plume	G6M-96-24B	3/30/2007	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	5.90	0.620	0.15	0.50	12.6	-43.6
North Plume	G6M-96-24B	6/13/2007	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.10	0.727	220	0.16	12.5	138.9
North Plume	G6M-96-24B	9/13/2007	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.05	0.689	9.90	3.93	11.3	-95.7
North Plume	G6M-96-24B	12/12/2007	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	-	-	6.33	0.802	0.80	0.30	14.0	106.2
North Plume	G6M-96-24B	10/7/2008	0.5 U	0.5 U	0.40 J	0.5 U	0.5 U	0.5 U	8.0 U	0.352 U	352 U	448	1.3 U	1.6 U	15	0.13 U	46	10	10 U	0.03 U	6.04	0.510	30.0	0.54	14.4	92.4
North Plume	G6M-96-24B	1/22/2009	1.2 U	1.8 U	1.4 U	1.3 U	2.3 U	1.3 U	8.0 U	**226 J**	**226,000 J**	315	1.2 U	1.5 U	4.2	0.13 U	32	9.3	10 U	0.03 U	6.16	0.479	65.0	0.45	13.4	149.6
North Plume	G6M-96-24B	5/11/2009	0.5 U	0.5 U	0.29 J	0.5 U	0.5 U	0.5 U	-	-	-	-	-	-	-	-	-	-	-	-	5.87	0.304	23.1	0.20	12.0	90.8

Notes:

1. [1]Area of Contamination (AOC) 50 cleanup levels are from the Record of Decision (United States Environmental Protection Agency 2004).
2. - = not sampled

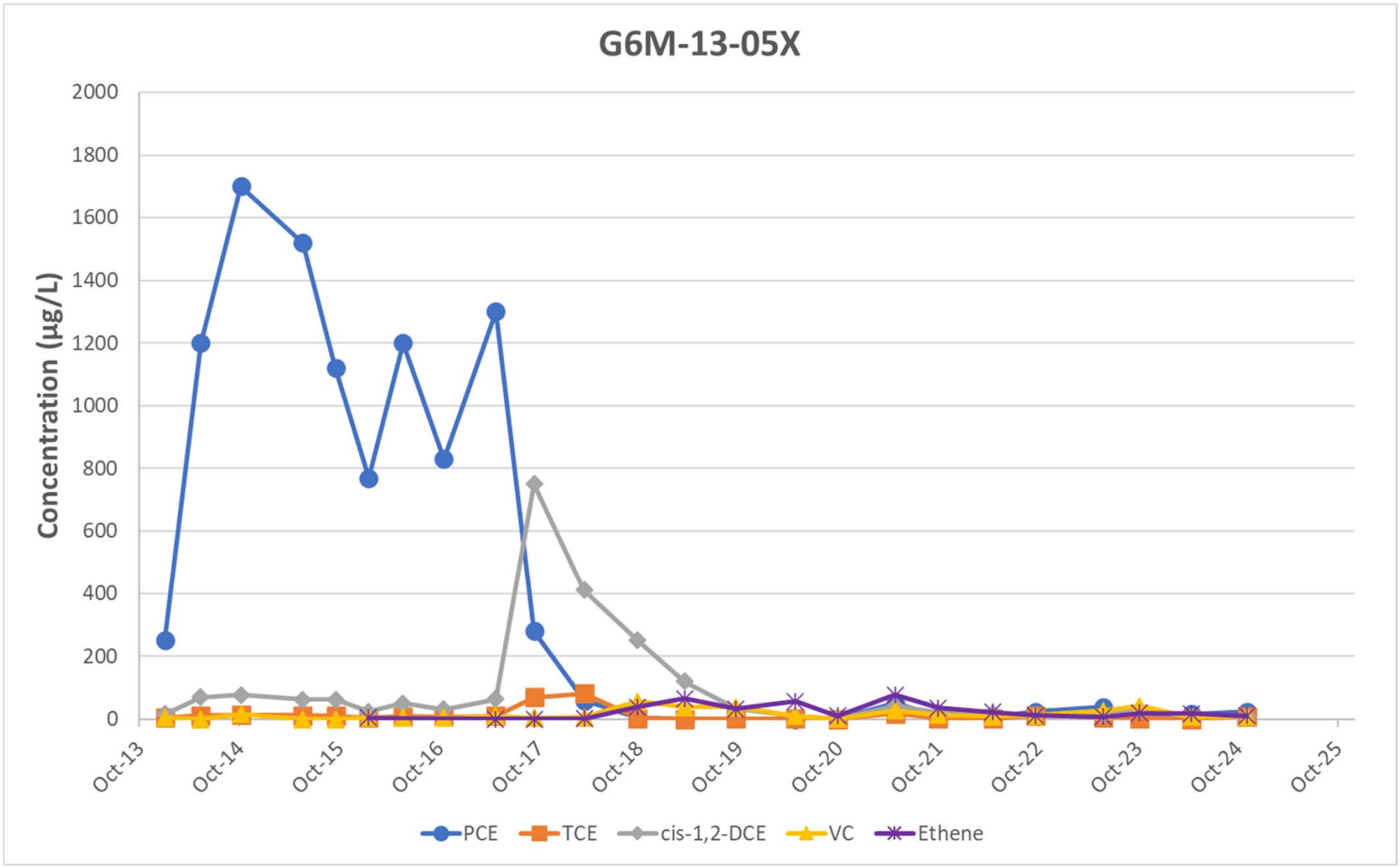
= Above cleanup level
= Spring 2024 sampling result
= Fall 2024 sampling result

Acronyms and Abbreviations:

°C = degree Celsius
µg/L = microgram per liter
1,1-DCE = 1,1-dichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
CL = cleanup level
DO = dissolved oxygen
J = The analyte was positively identified, the quantitation is an estimation.
mg/L = milligram per liter
mS/cm = milliSiemen per centimeter
NTU = nephelometric turbidity unit
ORP = oxidation-reduction potential
PCE = tetrachloroethene
SpC = specific conductivity
SU = standard unit
TCE = trichloroethene
TOC = total organic carbon
trans-1,2-DCE = trans-1,2-dichloroethene
U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the limit of detection.
VC = vinyl chloride

Appendix E

CVOC Trend Graphs



Notes:

1. Data for compounds not detected are shown at half the reporting limit.
2. µg/L = microgram per liter
3. cis-1,2-DCE = cis-1,2-dichloroethene
4. COC = contaminant of concern
5. CVOC = chlorinated volatile organic compound
6. PCE = tetrachloroethene
7. TCE = trichloroethene
8. VC = vinyl chloride

COC	AOC 50 Cleanup Level (µg/L)
PCE	5
TCE	5
cis-1-2-DCE	70
VC	2

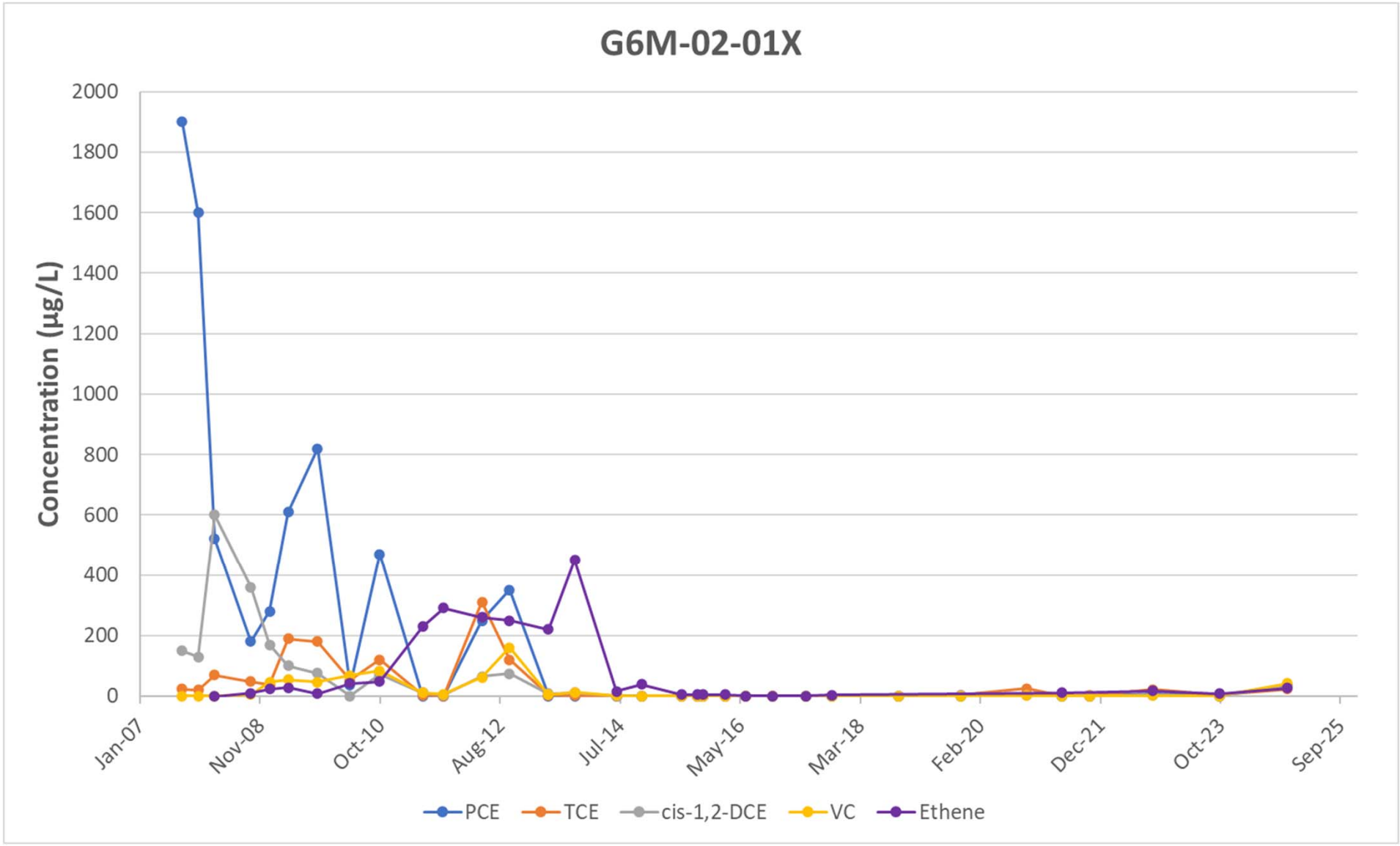
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AREA OF CONTAMINATION 50
FORMER FORT DEVENS ARMY INSTALLATION
DEVENS, MASSACHUSETTS

CVOC TREND GRAPH
G6M-13-05X (AREA 1)

SERES Engineering & Services, LLC
ARCADIS a joint venture

FIGURE
E-1

\ARCADIS\SERES-Arcadis JV - _NE Dist Devens Task Orders\TO 1 - Seed Task\AOC 50\Reports\2. Fall 2020 Memo\Attachments



Notes:

1. Data for compounds not detected are shown at half the reporting limit.
2. µg/L = microgram per liter
3. cis-1,2-DCE = cis-1,2-dichloroethene
4. COC = contaminant of concern
5. CVOC = chlorinated volatile organic compound
6. PCE = tetrachloroethene
7. TCE = trichloroethene
8. VC = vinyl chloride

COC	AOC 50 Cleanup Level (µg/L)
PCE	5
TCE	5
cis-1-2-DCE	70
VC	2

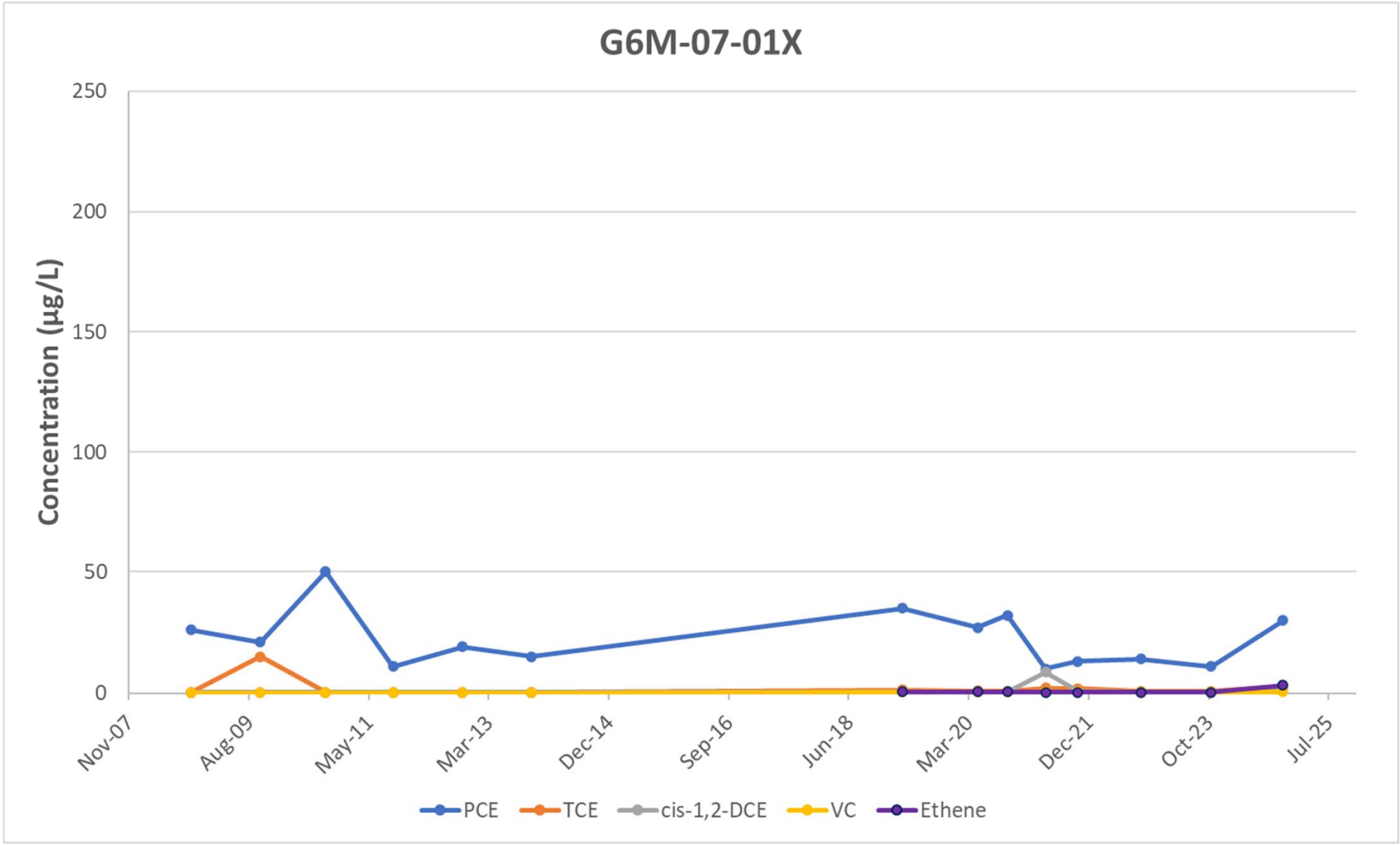
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DEVENS, MASSACHUSETTS

CVOC TREND GRAPH
G6M-02-01X (AREA 2)

SERES Engineering & Services, LLC
ARCADIS a joint venture

FIGURE
E-2

\ARCADIS\SERES-Arcadis JV - _NE Dist Devens Task Orders\TO 1 - Seed Task\AOC 50\Reports\2. Fall 2020 Memo\Attachments



Notes:

1. Data for compounds not detected are shown at half the reporting limit.
2. µg/L = microgram per liter
3. cis-1,2-DCE = cis-1,2-dichloroethene
4. COC = contaminant of concern
5. CVOC = chlorinated volatile organic compound
6. PCE = tetrachloroethene
7. TCE = trichloroethene
8. VC = vinyl chloride

COC	AOC 50 Cleanup Level (µg/L)
PCE	5
TCE	5
cis-1-2-DCE	70
VC	2

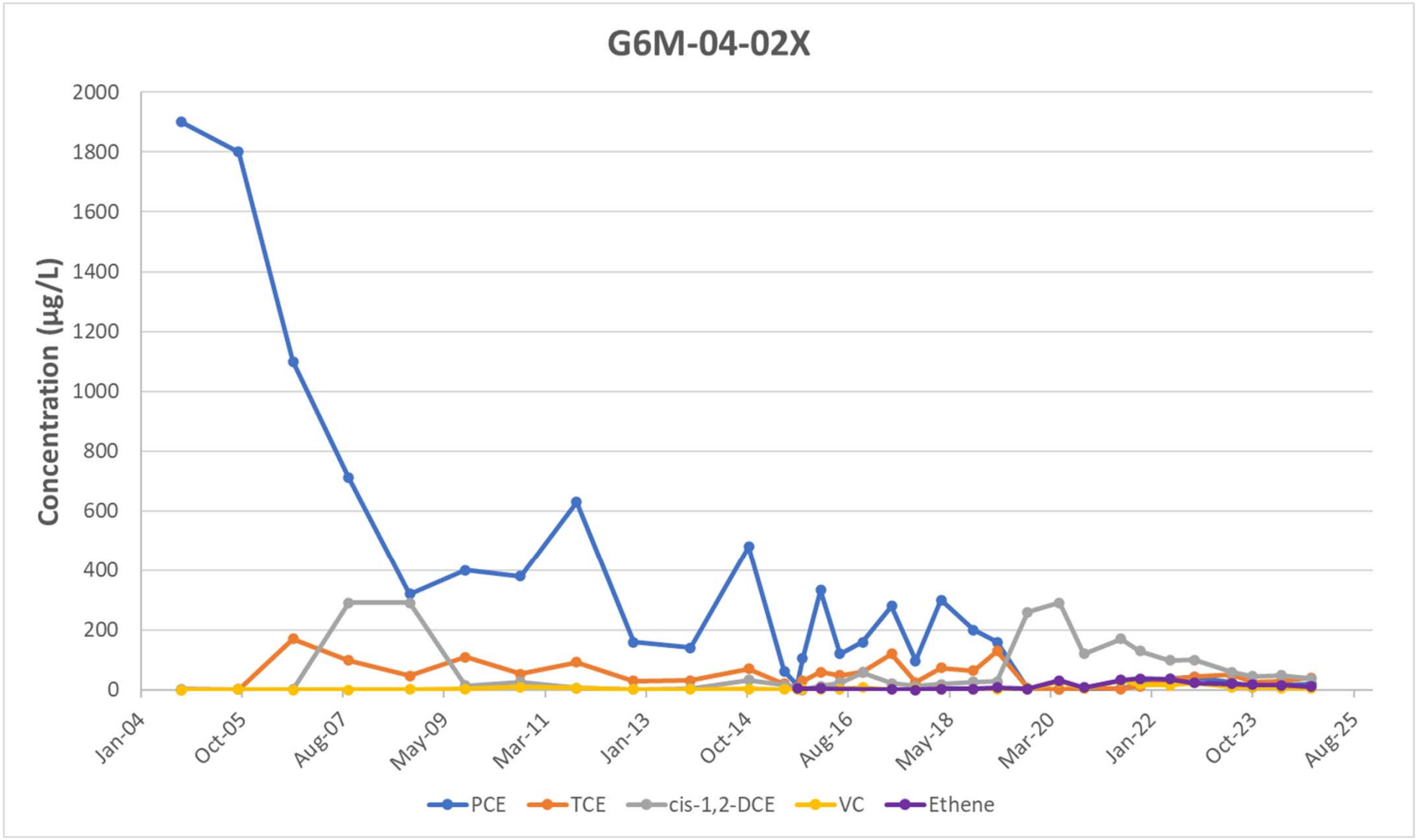
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CVOC TREND GRAPH
G6M-07-01X (AREA 2)

SERES Engineering & Services, LLC
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FIGURE
E-3

\\ARCADIS\SERES-Arcadis JV - _NE Dist Devens Task Orders\TO 1 - Seed Task\AOC 50\Reports\2. Fall 2020 Memo\Attachments



Notes:

1. Data for compounds not detected are shown at half the reporting limit.
2. µg/L = microgram per liter
3. cis-1,2-DCE = cis-1,2-dichloroethene
4. COC = contaminant of concern
5. CVOC = chlorinated volatile organic compound
6. PCE = tetrachloroethene
7. TCE = trichloroethene
8. VC = vinyl chloride

COC	AOC 50 Cleanup Level (µg/L)
PCE	5
TCE	5
cis-1-2-DCE	70
VC	2

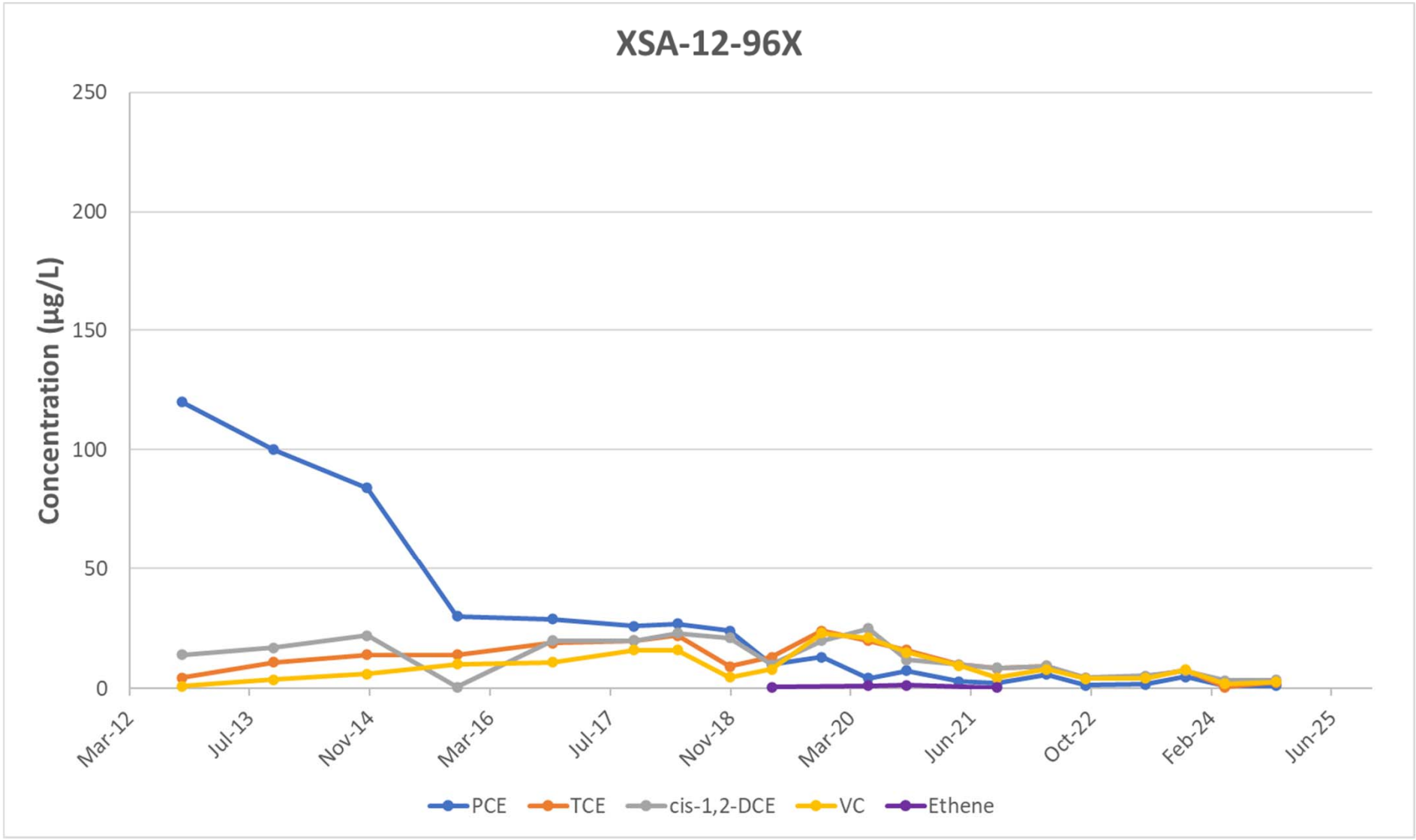
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CVOC TREND GRAPH
G6M-04-02X (AREA 3)

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FIGURE
E-4

\ARCADIS\SERES-Arcadis JV - _NE Dist Devens Task Orders\TO 1 - Seed Task\AOC 50\Reports\2. Fall 2020 Memo\Attachments



Notes:

1. Data for compounds not detected are shown at half the reporting limit.
2. µg/L = microgram per liter
3. cis-1,2-DCE = cis-1,2-dichloroethene
4. COC = contaminant of concern
5. CVOC = chlorinated volatile organic compound
6. PCE = tetrachloroethene
7. TCE = trichloroethene
8. VC = vinyl chloride

COC	AOC 50 Cleanup Level (µg/L)
PCE	5
TCE	5
cis-1-2-DCE	70
VC	2

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CVOC TREND GRAPH
XSA-12-96X (AREA 5)

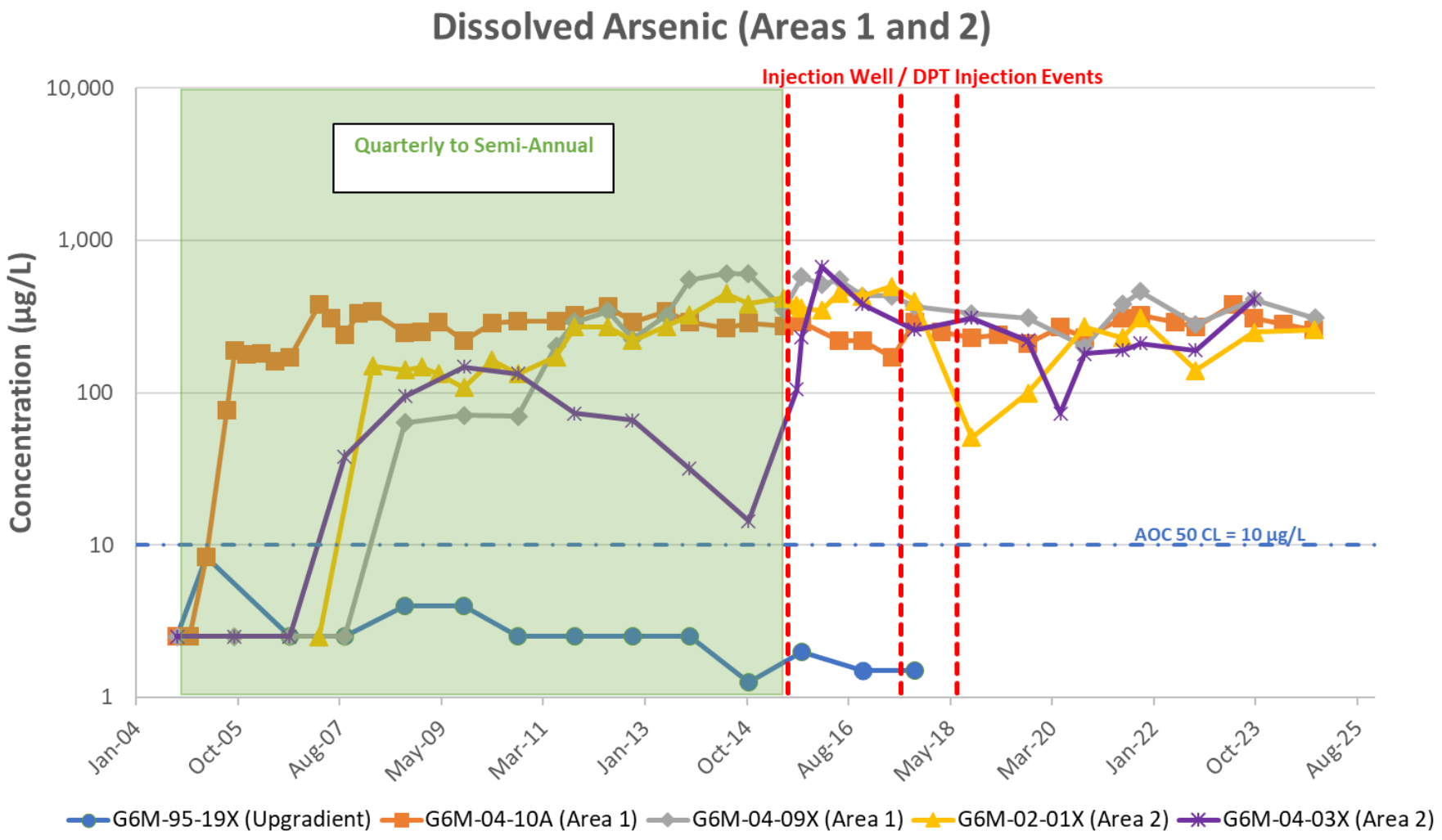
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FIGURE
E-5

\ARCADIS\SERES-Arcadis JV - _NE Dist Devens Task Orders\TO 1 - Seed Task\AOC 50\Reports\2. Fall 2020 Memo\Attachments

Appendix F

Arsenic Trend Graphs



Notes:

1. Not-detects are shown at half the reporting limit
2. µg/L = microgram per liter
3. CL = Cleanup Level
4. DPT = direct push technology

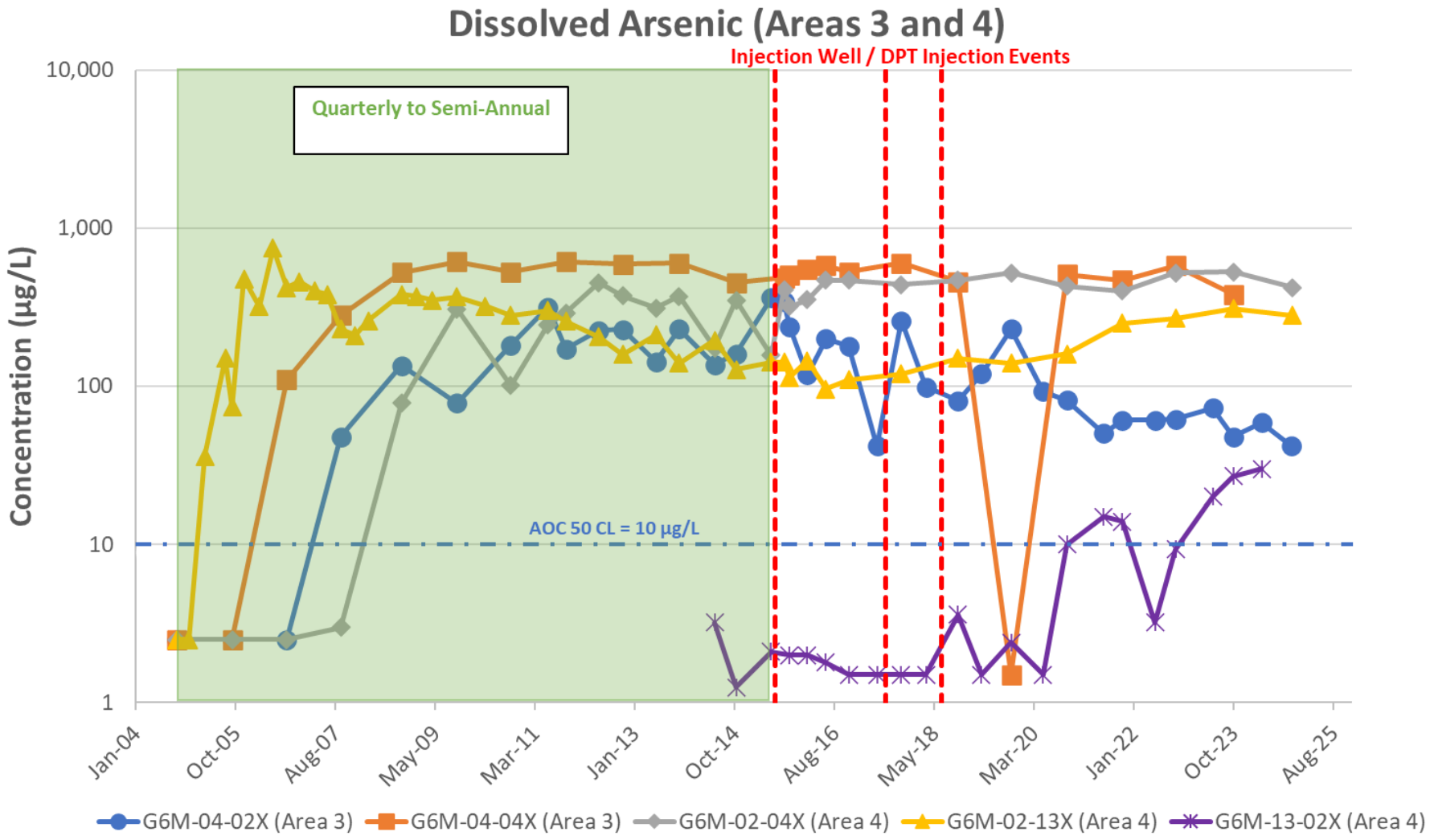
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DISSOLVED ARSENIC TREND GRAPH
AREAS 1 AND 2

SERES Engineering & Services, LLC | ARCADIS a joint venture

FIGURE
F-1

\ARCADIS\SERES-Arcadis JV - _NE Dist Devens Task Orders\TO 1 - Seed Task\AOC 50\Reports\2. 2023 Memo\Attachments



Notes:

1. Not-detects are shown at half the reporting limit
2. µg/L = microgram per liter
3. CL = Cleanup Level
4. DPT = direct push technology

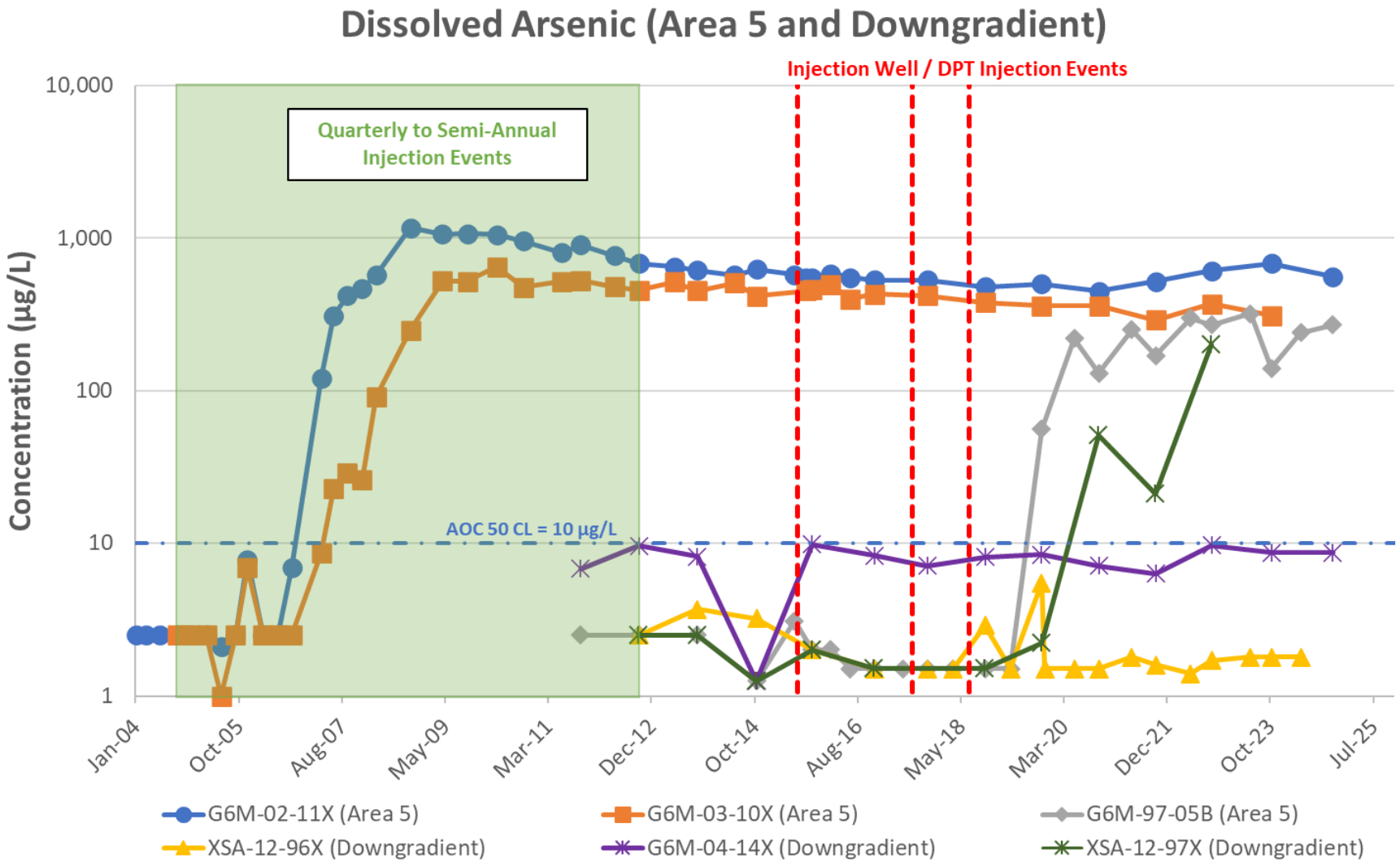
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AREA OF CONTAMINATION 50
FORMER FORT DEVENS ARMY INSTALLATION
DEVENS, MASSACHUSETTS

DISSOLVED ARSENIC TREND GRAPH
AREAS 3 AND 4

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FIGURE
F-2

\ARCADIS\SERES-Arcadis JV - _NE Dist Devens Task Orders\TO 1 - Seed Task\AOC 50\Reports\2. 2023 Memo\Attachments



Notes:

1. Not-detects are shown at half the reporting limit
2. µg/L = microgram per liter
3. CL = Cleanup Level
4. DPT = direct push technology

2024 ANNUAL OPERATIONS, MAINTENANCE, AND MONITORING REPORT
AREA OF CONTAMINATION 50
FORMER FORT DEVENS ARMY INSTALLATION
DEVENS, MASSACHUSETTS

DISSOLVED ARSENIC TREND GRAPH
AREA 5 AND DOWNGRADIENT

SERES Engineering & Services, LLC | ARCADIS a joint venture

FIGURE
F-3

\ARCADIS\SERES-Arcadis JV - _NE Dist Devens Task Orders\TO 1 - Seed Task\AOC 50\Reports\2. 2023 Memo\Attachments

Appendix G

Annual Land-Use Control Plan Checklist, Reinforcement Letters, and Real Property Master Plan

Annual Land Use Control Plan Checklist for AOC 50

I. Site Information	
Site Name/Location: AOC 50	**Name/Affiliation:** Former Moore Army Airfield
Remedy Includes: Long Term Monitoring, Institutional Controls, ERD	
Inspection Date: December 4, 2024	
Participants: S-A JV: Ian Martz, Andy Vitolins MassDev: Anne Marie Dowd USACE: Penny Reddy, Brent Smith, Maureen Radochia, Ellie Driscoll Calibre: Samantha Velluti-Fry	

II. Documentation and Records		
Item	**Yes/No**	**Comments**
Any related notices filed with Town of Ayer, MassDEP or Nashoba BOH?	No	
Any related Devens Department of Public Works permits found?	No	No permitting activities besides the police driver training and existing Raytheon permit for paving. No intrusive work or soil excavation activities.
Any related zoning permits or variances found?	No	
Any related Conservation Commission findings, proposals or notices of intent found?	No	
Any related notices or permits filed with the Devens Enterprise Commission?	No	

III. Physical On-Site Inspection		
Item	**Yes/No**	**Comments**
Any construction activities or new buildings present in the area of the remedy?	No	
Any damage to on-site monitoring wells?	No	All wells appear to be in generally good condition and are functional; minimal damage observed.
Is there evidence of damage to the remedy?	No	
Any groundwater supply wells present?	No	
Any construction detention ponds?	No	
Is there sufficient access to the site for monitoring?	Yes	A annual vegetation removal event was completed in October 2024 to improve access to monitoring wells in overgrown areas (Area 1 and Area 5). The work was coordinated with MassDevelopment and the site stakeholders.

IV. Interview #1		
Name of Interviewer: Ian Martz (S-A JV)		
Name of Interviewee: Neil Angus (Devens Enterprise Commission), Anne-Marie Dowd (MassDevelopment), Meg Delorier (MassDevelopment)		
Contact Information: neilangus@devensec.com, 978-772-8831 x3334; amdowd@massdevelopment.com, 857-345-2859; mdelorier@massdevelopment.com, 978-784-2929		
Interview Notes: Emailed final 2023 LUC forms for review on January 16, 2025. Performed phone interview on January 17, 2025.		
Site Update: Activities in 2024 included routine groundwater sampling. The Army is currently investigating PFAS which have been detected at the Former Fort Devens. A record-of-decision has not been completed for PFAS.		
Item	**Yes/No**	**Comments**
Has the interviewee received/read the annual IC notification/reinforcement letter from the Army?	Yes	
Is interviewee familiar with the land use controls imposed upon the property & documentation of these controls?	Yes	
Are there any pumping wells or other sources of water other than those supplied by the Town at the property?	No	
Are there any proposed plans for property sale, future development, construction or demolition activities at the property?	No	
Are there any issues with site access for monitoring and remediation?	No	

IV. Interview #2		
Name of Interviewer: Ian Martz (S-A JV)		
Name of Interviewee: Tom Eagle - Deputy Project Leader (USFWS)		
Contact Information: tom_eagle@fws.gov, 978-579-4027		
Interview Notes: Emailed interview checklist to Tom Eagle on January 17, 2025. Received responses on February 27, 2025, which are documented below.		
Item	**Yes/No**	**Comments**
Has the interviewee received/read the annual IC notification/reinforcement letter from the Army?	Yes/No	An IC letter was mailed to Mr. Eagle on December 9, 2024. Mr. Eagle indicated he received but did not read the letter.
Is interviewee familiar with the land use controls imposed upon the property & documentation of these controls?	Yes	Not fully familiar. Mr. Eagle indicated he could use a refresher and that the USFWS has a new manager who could benefit from being briefed.

Are there any pumping wells or other sources of water other than those supplied by the Town at the property?	No	
Are there any proposed plans for property sale, future development, construction or demolition activities at the property?	No	
Are there any issues with site access for monitoring and remediation?	No	Army must coordinate with refuge staff and avoid sensitive habitats.
IV. Interview #3		
Name of Interviewer: Ian Martz (S-A JV)		
Name of Interviewee: Jeffrey Woodle (Groton Ayer Realty Trust)		
Contact Information: jpwoodle@gmail.com, 978-877-2712		
Interview Notes: Emailed interview checklist to Jeffrey Woodle on January 24, 2025. Received responses on February 20, 2025, which are documented below.		
Item	**Yes/No**	**Comments**
Has the interviewee received/read the annual IC notification/reinforcement letter from the Army?	Yes	An IC letter was mailed to Mr. Woodle on December 9, 2024.
Is interviewee familiar with the land use controls imposed upon the property & documentation of these controls?	Yes	
Are there any pumping wells or other sources of water other than those supplied by the Town at the property?	No	
Are there any proposed plans for property sale, future development, construction or demolition activities at the property?	No	
Are there any issues with site access for monitoring and remediation?	No	
V. Response Actions		
Item	**No**	**Comments**
Were violations of the LUCs present ?	X	
Are there Response Actions necessary based on the violations?	X	
Are modifications/ terminations of LUC's necessary?	X	
Have Enforcement Actions been taken during this reporting period?	X	

Meg Delorier
MassDevelopment
99 High Street
Boston, MA 02110

SERES-Arcadis 8(a) JV 2, LLC
669 Marina Drive, Suite B-7
Charleston, South Carolina 29492
www.arcadis.com

Subject:
Land Use Control (LUC) Reinforcement Letter
CERCLA Remedy - Area of Contamination (AOC) 50
Former Fort Devens Army Installation – Devens, MA

ENVIRONMENT

Date:
December 3, 2024

Contact:
Ian Martz

Phone:
978.322.4526

Email:
ian.martz@arcadis.com

Our ref:
30167457

Dear Ms. Delorier,

On behalf of the United States Department of the Army (the Army) the SERES-Arcadis Joint Venture (S-A JV) has prepared an annual LUC Reinforcement Letter for the AOC 50 portion of former Fort Devens.

Under the Devens Reuse Plan (November 14, 1994), the area is zoned for Special Use II and Innovation and Technology Business; which may include a broad range of industrial, light industrial, office, and research/development uses. The Army and MassDevelopment (MassDev) signed a quickclaim deed in 1996 for approximately 246 acres of the property, which was transferred to MassDev for reuse. The LUC agreement restricts property use as per the AOC 50 Record of Decision, which was approved by the Army and USEPA in 2004 pursuant to CERCLA.

The LUCs specific to this letter are identified below and the LUC area is shown on the attached map. The LUCs must remain in place to protect human health and the environment. This letter serves as a reminder to your organization of the property use restrictions associated with the AOC 50 environmental remedy so that you may consider them in making decisions about the property. The restrictions were initially described in the Remedial Action Work Plan for AOC 50 that was provided to your organization on July 7, 2005.

The following use restrictions apply to this property:

- No extraction of groundwater for any purpose;
- Building construction over plume subject to review/approval;

- Stormwater discharge or recharge are subject to review/approval of stormwater management plan; and
- Excavations subject to soil management plans and Health & Safety Plans;
- Provide access to the Army, USEPA, and Massachusetts Department of Environmental Protection (MassDEP) to monitor wells, maintain the remedy, and complete annual inspections of the property to confirm compliance with land use objectives.

If you have any further questions concerning this matter or if your contact information changes, please send the following information to the attention of Mr. Tom Lineer at the address listed below.

Mr. Tom Lineer
U.S. Army
2530 Crystal Drive
Taylor Building, Room 5104A
Arlington, VA 22202
703-545-2487

The Army will continue to send LUC reinforcement letters on an annual basis as a reminder of the property restrictions. When all actions to protect human health and the environment are deemed complete by the appropriate regulatory agencies, you will receive a letter notifying you that the restrictions have been removed. Additional information on the Former Fort Devens Environmental Cleanup Site is available at https://www.nae.usace.army.mil/missions/projects-topics/former-fort-devens-environmental-cleanup/.

Sincerely,

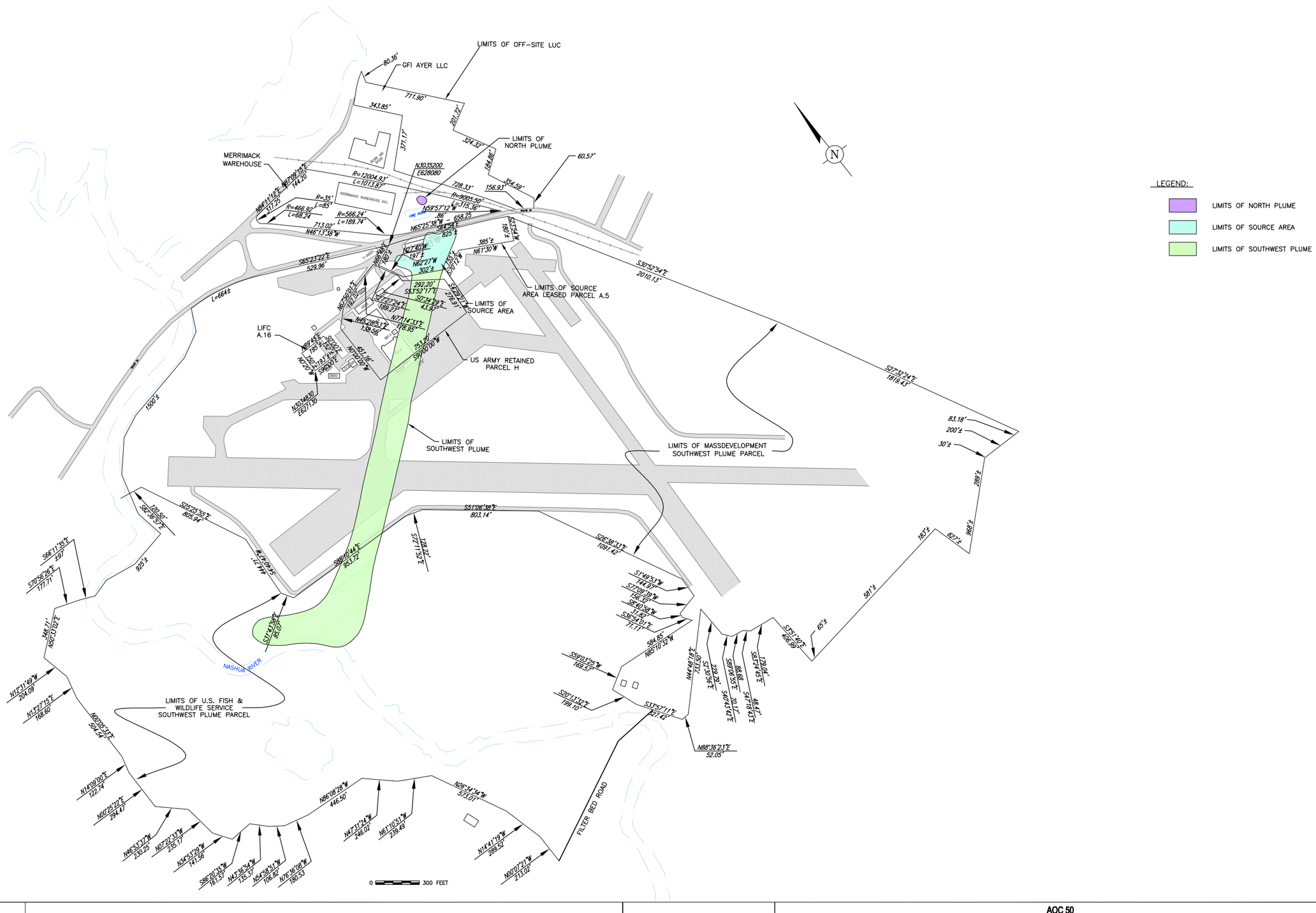
SERES-Arcadis



Ian A. Martz, P.G.
Senior Geologist

Attachments:
Limits of Land Use Controls Map

Copies:
Tom Lineer – U.S. Army
Penelope Reddy – USACE
Shawn Lowry – USEPA
Joanne Dearden – MassDEP
Anne-Marie Dowd – MassDevelopment



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Current Plotstyle : ByColor
Layout Tab : Layout1
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Area Manager	D. KNOX
Project Director	C. CASTELLUCCIO
Task Manager	C. CASTELLUCCIO
Technical Reviewer	

ARCADIS
SUITE 400
175 CABOT STREET
LOWELL, MASSACHUSETTS 01854

AOC 50
FORT DEVENS, MASSACHUSETTS

LIMITS OF LAND-USE CONTROL

Project Number	MA000664.0007
Date	02/28/05
Figure	2

Tom Eagle
Deputy Wildlife Refuge Manager
Eastern MA NWR Complex
73 Weir Hill Road
Sudbury, MA 01776

SERES-Arcadis 8(a) JV 2, LLC
669 Marina Drive, Suite B-7
Charleston, South Carolina 29492
www.arcadis.com

Subject:
Land Use Control (LUC) Reinforcement Letter
CERCLA Remedy - Area of Contamination (AOC) 50
Former Fort Devens Army Installation – Devens, MA

ENVIRONMENT

Date:
December 9, 2024

Contact:
Ian Martz

Phone:
978.322.4526

Email:
ian.martz@arcadis.com

Our ref:
30167457

Dear Mr. Eagle,

On behalf of the United States Department of the Army (the Army) the SERES-Arcadis Joint Venture (SERES-Arcadis 8(a) JV 2 LLC) has prepared this LUC Reinforcement Letter. The U.S. Fish & Wildlife Service (USFWS) and the Army signed a Memorandum of Agreement (MOA) for the transfer of land which is now part of the Oxbow Refuge Area. Contamination associated with the AOC 50 portion of the former Fort Devens located near Route 2A in Ayer, Massachusetts is present in the groundwater underlying the transferred land.

The MOA for the USFWS property restricts property use as per the AOC 50 Record of Decision (ROD) which was approved by the Army and U.S. Environmental Protection Agency (USEPA), pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The LUCs specific to this letter are identified below and shown on the enclosed map. The LUCs must remain in place to protect human health and the environment.

This letter serves as a reminder to your organization of the property use restrictions associated with the AOC 50 remedy, so that you may consider them in making decisions about this property. The restrictions were initially described in the Remedial Action Work Plan for AOC 50 that was provided to your organization on July 7, 2005.

The following use restrictions apply to this property:

- No extraction of groundwater for any purpose;
- Storm water discharge or recharge are subject to approval;
- Building construction over plume subject to approval; and

- Provide access to the Army, USEPA, and Massachusetts Department of Environmental Protection (MassDEP) to monitor wells, maintain the remedy, and complete annual inspections of the property to confirm compliance with land use objectives.

If you have any further questions concerning this matter or if you contact information changes, please notify Mr. Tom Lineer at the address listed below.

Mr. Tom Lineer
U.S. Army
2530 Crystal Drive
Taylor Building, Room 5104A
Arlington, VA 22202
703-545-2487

The Army will continue to send LUC reinforcement letters on an annual basis as a reminder of the property restrictions. When all actions to protect human health and the environment are deemed complete by the appropriate regulatory agencies, you will receive a letter notifying you that the restrictions have been removed. Additional information on the Former Fort Devens Environmental Cleanup Site is available at https://www.nae.usace.army.mil/missions/projects-topics/former-fort-devens-environmental-cleanup/.

Sincerely,

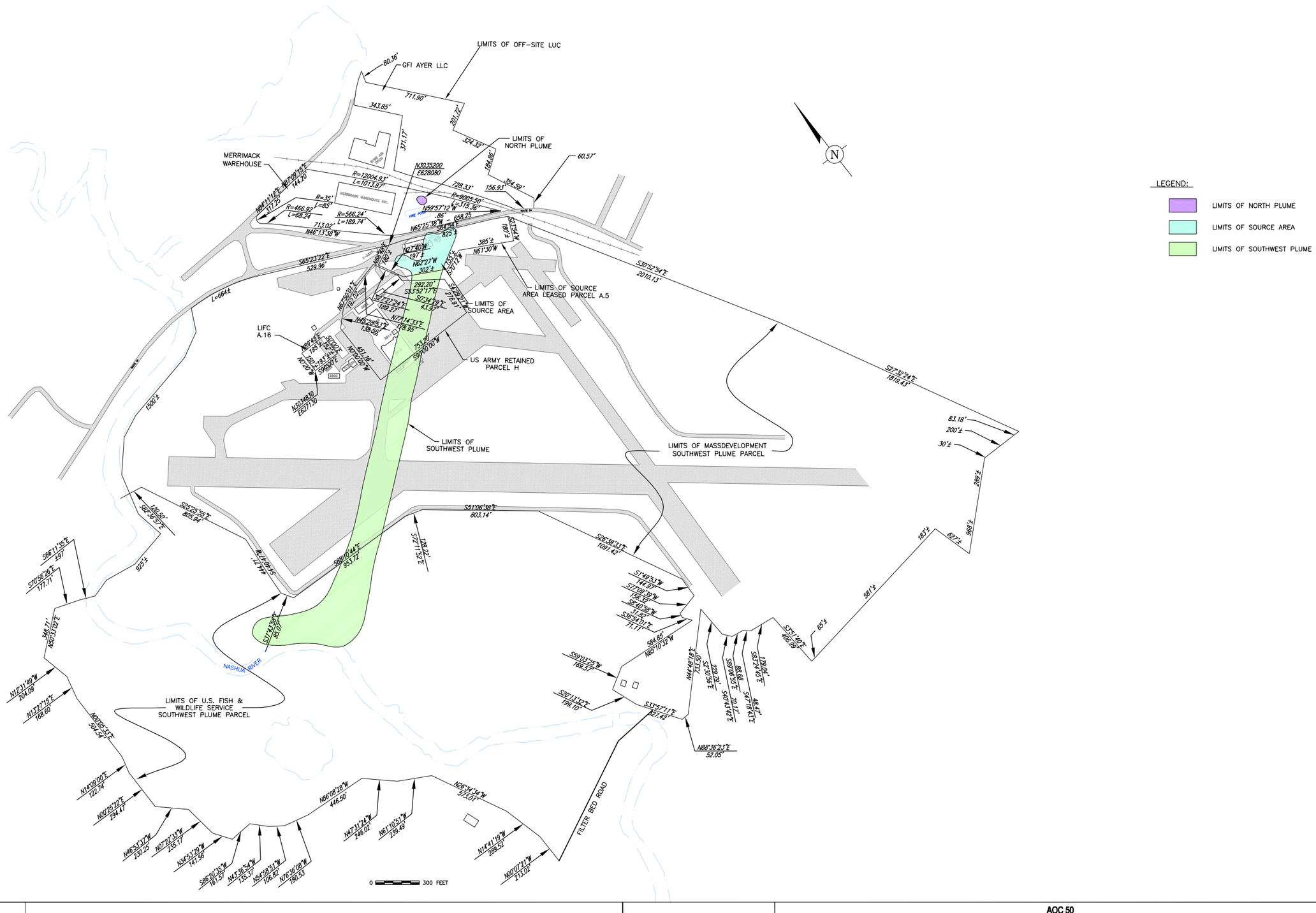
Seres-Arcadis



Ian A. Martz, P.G.
Senior Geologist

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Joanne Dearden – MassDEP
Meg Delorier – MassDevelopment
Anne-Marie Dowd – MassDevelopment



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Area Manager	D. KNOX
Project Director	C. CASTELLUCCIO
Task Manager	C. CASTELLUCCIO
Technical Reviewer	

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AOC 50
FORT DEVENS, MASSACHUSETTS

LIMITS OF LAND-USE CONTROL

Project Number	MA000664.0007
Date	02/28/05
Figure	2

Mr. Henry and Jeffrey Woodle
Merrimack Warehouse Realty Co., Inc.
PO Box 353
Ayer, MA 01432

SERES-Arcadis 8(a) JV 2, LLC
669 Marina Drive, Suite B-7
Charleston, South Carolina 29492
www.arcadis.com

Subject:
Land Use Control (LUC) Reinforcement Letter
CERCLA Remedy - Area of Contamination (AOC) 50
Former Fort Devens Army Installation – Devens, MA

ENVIRONMENT

Date:
December 9, 2024

Contact:
Ian Martz

Phone:
978.322.4526

Email:
ian.martz@arcadis.com

Our ref:
30167457

Dear Mr. Henry and Jeffrey Woodle,

On behalf of the United States Department of the Army (the Army) the SERES-Arcadis Joint Venture (SERES-Arcadis 8(a) JV 2 LLC) has prepared this LUC Reinforcement Letter. The Merrimack Warehouse Nominee Trust (Merrimack Warehouse) and the Army signed a LUC Agreement which was executed on July 18, 2006, for groundwater contamination at the AOC 50 portion of the former Fort Devens located by Route 2A in Ayer, Massachusetts.

The LUC Agreement for the Merrimack Warehouse property restricts property use, as per the Record of Decision (ROD) which was approved by the Army and U.S. Environmental Protection Agency (USEPA) pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The LUCs specific to this letter are identified below and shown on the enclosed map. The LUCs must remain in place to protect human health and the environment.

This letter serves as a reminder to your organization of the property use restrictions associated with the AOC 50 environmental remedy so that you may consider them in making decisions about the property. The restrictions were initially described in the Remedial Action Work Plan for AOC 50 that was provided to your organization on July 7, 2005, and the restrictions were later updated on July 20, 2006, in a LUC Agreement between Merrimack Warehouse Nominee Trust and the Army.

The following use restrictions apply to this property:

- Merrimack Warehouse will not use or allow exposure to groundwater underlying the property until the land use restrictions are removed. The parties agree and acknowledge that the contaminated groundwater that is subject of this Agreement is currently confined to the well designated as G6M-96-24B. The parties further agree and acknowledge that Merrimack shall not be prohibited by the terms of this Agreement or

otherwise from using the water supplied to and stored in the Fire Pond for extinguishing fires in its building on its land, with the parties further agreeing and acknowledging that the water in the Fire Pond is automatically employed by the sprinkler systems in Merrimack's buildings in the event they are triggered as required by fire codes and Merrimack's insurer.

- Merrimack Warehouse will provide property access to the Army, USEPA, and the MassDEP to inspect monitor wells and make annual inspections of the property to confirm compliance with land use objectives.

If you have any further questions concerning this matter or if your contact information changes, please notify Mr. Tom Lineer at the address listed below.

Mr. Tom Lineer
U.S. Army
2530 Crystal Drive
Taylor Building, Room 5104A
Arlington, VA 22202
703-545-2487

The Army will continue to send LUC reinforcement letters on an annual basis as a reminder of the property restrictions. When all actions to protect human health and the environment are deemed complete by the appropriate regulatory agencies, you will receive a letter notifying you that the restrictions have been removed. Additional information on the Former Fort Devens Environmental Cleanup Site is available at https://www.nae.usace.army.mil/missions/projects-topics/former-fort-devens-environmental-cleanup/.

Sincerely,

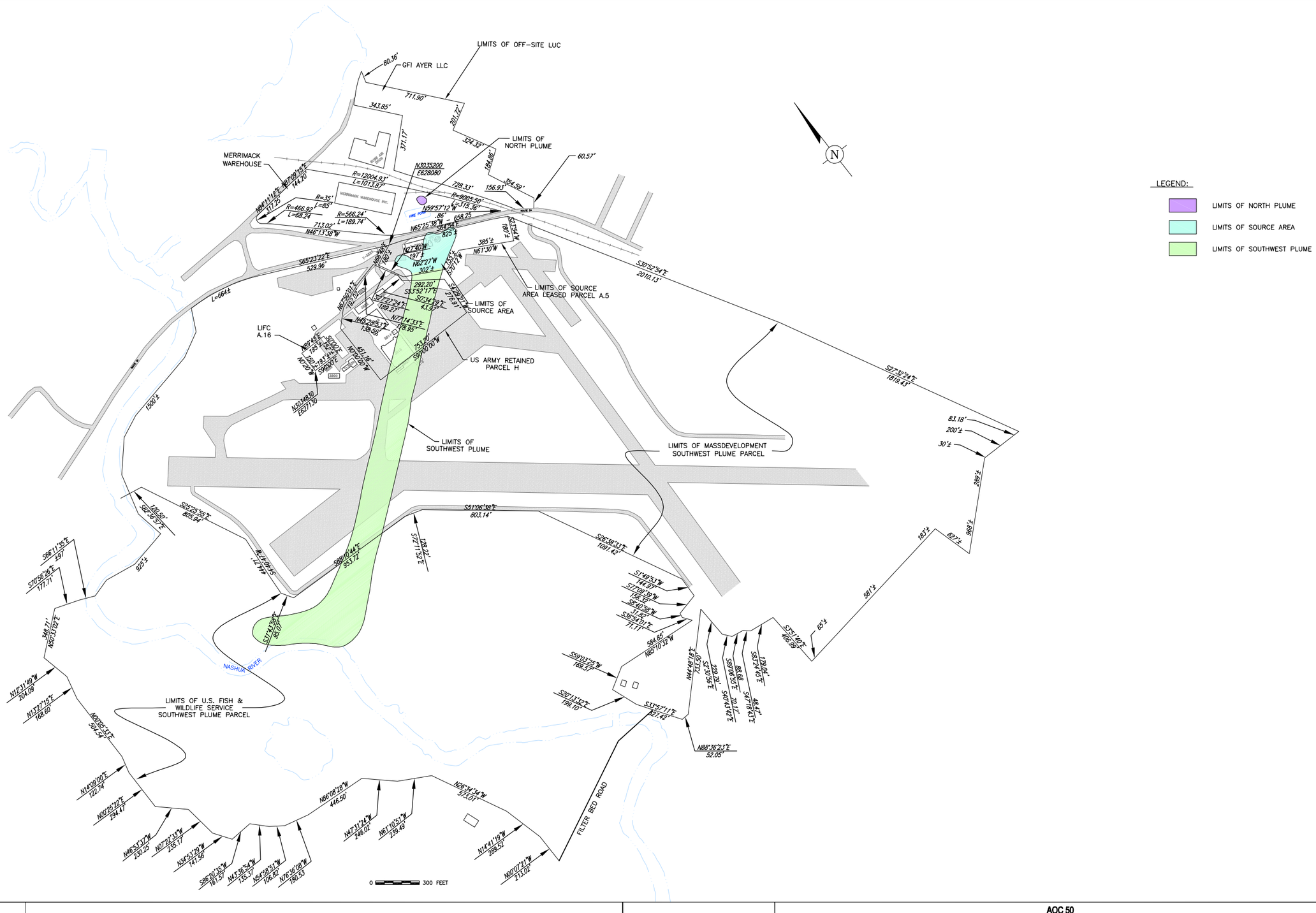
SERES-Arcadis



Ian A. Martz, P.G.
Senior Geologist

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Task Manager	C. CASTELLUCCIO
Technical Reviewer	

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AOC 50
FORT DEVENS, MASSACHUSETTS

LIMITS OF LAND-USE CONTROL

Project Number	MA000664.0007
Date	02/28/05
Figure	2

REAL PROPERTY MASTER PLAN
LONG RANGE COMPONENT
FOR
DEVENS RESERVE FORCES TRAINING AREA

ADDENDUM – SEPTEMBER 2007

This addendum applies to Chapter 4.C. (Land Use Policies and Constraints) and Chapter 5.E. (Environmental Concerns) of the *Real Property Master Plan, Long Range Component for Devens Reserves Forces Training Area, June 1999.* The addendum provides supplemental information on Land-Use Controls (LUCs) established under BRAC and CERCLA programs that are applicable to the following areas:

Area A (Main Cantonment)

The CERCLA remedy for the former AAFES Gas Station located on Queenstown Street is addressed in the Record of Decision (ROD) for Area of Contamination (AOC) 43G. The remedy is based on Army retention of this area and continued restricted access to ground water; however, any proposed actions that affect this property must consider the following ROD requirements and site environmental conditions:

- Assure that the Property is not used for residential purposes and prohibit the use of groundwater beneath the site. If the Army changes the land-use within the AOC, then additional assessment and/or possible remedial action may be needed based upon the possible resultant changed risk factors.

- If the Army transfers this property by lease or deed, an Environmental Baseline Assessment (EBS) will be conducted to ensure that the remedy remains protective by incorporating all necessary environmental protection provisions within the Finding of Suitability to Transfer (FOST) and the property transfer deed.

- Any intrusive construction work must consider that residual soil and groundwater contamination has been documented for AOC 43G and that such actions should be coordinated with the DPW, the BRAC Environmental Office and the BRAC Clean-up Team (BCT).

Area C (Range & Training Area)

The CERCLA remedy for the South Post range and training areas is addressed in the ROD for the South Post Impact Area (SPIA) and AOCs 25, 26, 27 and 41. The "no action" remedy is based on Army retention of the South Post; however, any proposed actions that affect this property must consider the following ROD requirements:

- If the Army should close or transfer or change the use of this property, an Environmental Baseline Survey (EBS) will be conducted, and the "no action" decision in the ROD will be re-examined in light of the changed use and risk factors resulting from this closure/transfer.

- The Army will not develop new drinking water sources within the SPIA monitored area.

Area F (3700 Area – Barnum Road Maintenance Yards)

The CERCLA remedy for the former Cannibalization Yard and TDA Maintenance Yard is addressed in the ROD for AOCs 44 and 52, respectively. The remedy is based on Army retention of this property; however, any proposed actions that affect this property must consider the following ROD requirements:

- Assure the Property is not used for residential purposes. If the Army transfers this property by lease or deed, an EBS will be conducted to ensure that the remedy remains protective by incorporating all necessary environmental protection provisions within the FOST and the property transfer deed.

- Maintain the existing paved areas and storm water collection systems to prevent long-term worker exposure to residual oil contaminated soils 2-5 feet BGS associated with AOC 44/52 remedy.

- Assure that Soil Management Plans and Health and Safety Plans are prepared and executed prior to subsurface excavations.

- Any intrusive construction work must consider that residual soil contamination has been documented for AOC 44/52 and that such actions should be coordinated with the DPW, the BRAC Environmental Office and the BCT.

Area G (3800 Area – RTS Maintenance)

The CERCLA remedy for the former Moore Army Airfield is addressed in the ROD for AOC 50. Active remediation and monitoring of the AOC 50 chlorinated solvent plume, which is under building 3813 is ongoing. Treatment transects and associated monitoring wells are located in the RTC vehicle storage area and on the Southwest Corner of Building 3813 former hanger, along the axis of the plume through Army retained Parcel H. Any proposed actions that affect this property must consider the following ROD requirements:

- Provide continued access to treatment transects and monitoring wells and access to install additional injection or monitoring wells, if necessary.

- Coordinate construction plans with the BCT to facilitate ongoing remediation and future access to plume areas

- No groundwater extraction or injection for any purpose

- Coordinate construction plans for modifications to storm water systems with the BCT including engineered storm water management plans and hydrologic/ mounding studies. (Continue use of existing storm water system to direct storm water away from the plume)

Appendix H

Response to Comments

US Army Corps of Engineers ®

New England District
696 Virginia Road
Concord, Massachusetts
01742-2751

Project Name:	Former Fort Devens Army Installation		
Location:	Devens, Massachusetts	Reviewers:	Shawn Lowry (USEPA) and Joanne Dearden (MassDEP)
Document Name: Draft 2024 Annual Operations, Maintenance, and Monitoring Report, Operable Unit 8 - Area of Contamination 50, Former Fort Devens Army Installation, Devens, Massachusetts, May 2025			

No.	Ref. Page / Para.	COMMENT	RESPONSE
		Shawn Lowry (30 June 2025)	
1.	General	For consistency with other Annual Reports, please note the planned update to the Long-Term Monitoring and Maintenance Plan (LTMMP) in the “Summary and Conclusions” section of this report.	A bullet indicating the recommendation to update the LTMMP to optimize the monitoring program has been added to the ”Summary and Conclusions” section.
2.	PDF page 28	The text notes, “TOC concentrations at wells not influenced by previous ERD injections have historically been below 10 mg/L, and typically below 5 mg/L; therefore, any concentration greater than 10 mg/L is considered elevated above background”. Please provide a reference to the document which established this level as background.	This background value was first presented in the 2020 Annual Report. A reference has been added to the text in Section 4.
		Joanne Dearden (9 July 2025)	
1.	Section 1.1, Figure 2	Please clarify if “IWS” wells are missing from Figure 2.	Only the IWS System Enclosure is shown on Figure 2; the two IWS wells are shown on Figure 6. No changes to Figure 2 were made in response to this comment.
2.	Section 1.2, Figure 4 and Figure 5	Specific wells are listed in the legend of Figure 4 and Figure 5 as not used for contouring. However, for the wells listed, their posted groundwater elevations do not also have an asterisk to indicate that the well was “*not used due to different vertical head compared to other wells with a similar screen interval*.” Please clarify why the groundwater elevations for the specific wells listed were not used for the contouring.	The referenced note on Figures 4 and 5 has been revised to update the rationale for not including them in the contouring.
3.	Section 1.3, Third Paragraph, Page 3	Please clarify the frequency of the ERD substrate injections since the injections began in October 2004. It is unclear if the injections occurred semi-annually from 2004 through 2015.	Text clarifying the frequency of injections has been added to the fourth paragraph of Section 1.3.

US Army Corps of Engineers ®

New England District
696 Virginia Road
Concord, Massachusetts
01742-2751

No.	Ref. Page / Para.	COMMENT	RESPONSE
4.	Section 1.3, Second Bullet, Page 4	It is noted that PCE was not detected in 2024 at well G6M-07-02X. Please clarify if this is the first time PCE was not detected at this well and when PCE concentrations met the CL at this well.	The text in Section 1.3 has been clarified to indicate that PCE has been below the CL since Spring 2020 and non-detect since Spring 2021.
5.	Section 3.3, Table 4	Please clarify what the last column of the table means. Why do the sample parameters differ from the sample parameters provided in the LTMMP?	The last column in Table 4 [LTMMP Sampling requirements (if different)] indicates sampling plan differences at individual wells where they may differ from the full suite of analyses.
6.	Section 3.3, First Paragraph, Page 6	Please clarify why well G6M-97-28X is listed here in the VOC section. There are no VOC results for this well in Table 7. Please verify if the sample parameters *VOCs and Metals* listed for this well in Table 4 is correct.	This well was sampled for VOCs periodically pre-2020 to support the injection monitoring. This well is no longer sampled for VOCs. Table 4 has been updated accordingly.
7.	Section 3.3.1, Second Bullet, Page 7	Please clarify which wells "*have oxic or moderately reduced conditions*" located outside areas of the ERD treatment.	This is a general summary statement regarding DO conditions and the text has been edited to indicate as such. There are a number of wells presenting oxic conditions. DO results are presented in Tables 6 and 7.
8.	Section 3.3.4, Third Paragraph, Page 12	"*The most noticeable increase in arsenic concentrations in recent years is at Area 5 monitoring well G6M-97-05B and downgradient monitoring well XSA-12-97X (Appendix F)*". Please clarify when XSA-12-97X was last sampled, and if this well is no longer part of the LTMMP.	Monitoring well XSA-12-97X was last sampled in Spring 2023. This well is no longer sampled due to an unremovable obstruction within the well. The text in Section 3.3.4 has been clarified.
END OF COMMENTS			