Remedial Action Report
In Situ Thermal Remediation and Soil Vapor Extraction

ABC One-Hour Cleaners Superfund Site OU3
Remedial Action
Jacksonville, Onslow County, North Carolina

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LIST OF ACRONYMS AND ABBREVIATIONS

°C	Degrees Celsius
°F	Degrees Fahrenheit
µg	Microgram(s)
A	Ampere
bgs	Below ground surface
Black & Veatch	Black & Veatch Special Projects Corp
Cascade	Cascade Environmental
COC	Contaminant of concern
CPVC	Chlorinated polyvinyl chloride
CS	Carbon steel
CY	Cubic yard(s)
DCE	Dichloroethene
DNAPL	Dense non-aqueous phase liquid
EA	EA Engineering, Science, and Technology, Inc., PBC
EPA	U.S. Environmental Protection Agency
feet/day	Feet per day
FRI	Focused Remedial Investigation
FS	Feasibility Study
GAC	Granular activated carbon
HPT	Hydraulic profiling tool
HSVE	Horizontal soil vapor extraction
HVEW	Horizontal vapor extraction well
ISTR	In Situ Thermal Remediation
kAIC	Kilo Ampere Interruption Capacity
kg	Kilogram(s)
L	Liter(s)
lb	Pound(s)
LGAC	Liquid granular activated carbon
LNAPL	Light non-aqueous phase liquid
m^3	Cubic meters
Major's	Major's Furniture & Appliance
MNA	Monitored natural attenuation
MPE	Multi-phase extraction
MSWB	Main switchboard

NAPL	Non-aqueous phase liquid
NEMA	National Electrical Manufacturers Association
Onslow	Onslow Grading & Paving, Inc.
OU	Operable Unit
PCB	Polychlorinated biphenyl
PCE	Tetrachloroethene
PID	Photoionization detector
PRI	Pre-Remedial Investigation
PVC	Polyvinyl chloride
RAO	Remedial action objectives
RAR	Remedial Action Report
RD	Remedial Design
RG	Remedial goal
RI	Remedial Investigation
ROD	Record of Decision
SEE	Steam Enhanced Extraction
Site	Former ABC Cleaners site, 2127 Lejeune Boulevard
SIW	Steam injection well
SS	Stainless steel
SVE	Soil vapor extraction
SVOC	Semi-volatile organic compound
TCE	Trichloroethene
TCH	Thermal Conduction Heating
TCLP	Toxicity characteristic leaching procedure
TPMP	Temperature and pressure monitoring points
TT	TerraTherm, Inc.
TTZ	Target treatment zone
V	Volt(s)
VC	Vinyl chloride
VEW	Vapor extraction well
VGAC	Vapor phase granular activated carbon
VI	Vapor intrusion
VOC	Volatile organic compound

1. BACKGROUND

1.1 INTRODUCTION

This Remedial Action Report (RAR) presents the remedial action implementation activities conducted by EA Engineering, Science, and Technology, Inc., PBC (EA) and teaming partner, TerraTherm, Inc. (TT) at the ABC One-Hour Cleaners Superfund Site (Site), Operable Unit (OU) 3, located at 2127 Lejeune Boulevard, Jacksonville, Onslow County, North Carolina (**Figure 1-1**). EA/TT performed the work under prime Remediation Environmental Services Contract Number 68HERH19D0008, Task Order 68HE0422F0079 with U.S. Environmental Protection Agency (EPA) Region 4. The remedial actions under this task order included two remedial technologies. (1) In Situ Thermal Remediation (ISTR), consisting of Thermal Conduction Heating (TCH) with supplemental Steam Enhanced Extraction (SEE), and (2) soil vapor extraction (SVE) to address shallow soils north of the ISTR target treatment zone (TTZ). This report follows Close Out Procedures for National Priorities List Sites (EPA 2022).

The ISTR TTZ was subdivided into treatment Zones 1 through 6 and was defined as the area where soil contains tetrachloroethene (PCE) concentrations greater than 6.3 micrograms (µg) per kilogram (kg). Zones 1 through 5 are in the Former ABC One-Hour Cleaners Building footprint, and Zone 6 is located under Major's Furniture & Appliance (Major's), located at 2129 Lejeune Boulevard, Jacksonville, North Carolina. The target treatment depth extends from surface to between 20 and 66 feet below ground surface (bgs) across the Site.

The ISTR system included 83 TCH heaters. Out of the total 83 TCH heaters, 29 were vertical TCH heaters, 13 were vertical TCH heaters with co-located vapor extraction wells (VEWs), 2 were angled TCH heaters with co-located VEWs, 9 were vertical TCH heaters with co-located steam injection wells (SIWs), and 30 were angled TCH heaters in 6 clusters each containing 5 heaters with co-located screens (VEW or SIW, depending on location). The six clusters of angled TCH heaters with co-located screens were installed to heat beneath Major's.

Sixteen multi-phase extraction (MPE) wells were installed in the TTZ to extract vapor, steam, and liquid. Vapor and steam were routed to the vapor and liquid treatment system for separation and treatment prior to discharge. Twelve of the MPE wells were vertical, and the other 4 MPE wells were installed at a 38° angle under Major's.

Eight temperature and pressure monitoring points (TPMPs) collected temperature data to support and to track subsurface heating. Out of the 8 TPMPs, 6 points were vertical and 2 were angled underneath Major's.

Ten horizontal vapor extraction wells (HVEWs) were installed above Zone 6 to extract and intercept steam and vapors beneath Major's. These HVEWs were integrated with a sub-slab depressurization system that was installed below Major's to mitigate the potential for vapor intrusion.

The shallow horizontal SVE system located to the north of the TTZ was constructed in accordance with the Final Remedial Design (RD) (Black & Veatch Special Projects Corp [Black & Veatch]

2020a) to treat shallow soils where PCE is present between 0–2 feet bgs. The system was constructed and operated concurrently with the ISTR system, with operations continuing for approximately 2 weeks after ISTR shutdown. Vapor concentrations and flows from the SVE system were tracked separately from the ISTR system to evaluate remedial progress.

The primary objective of the ISTR and shallow SVE systems was to meet the interim record of decision goal to eliminate material from the source to reduce/eliminate the source leaching into groundwater (EPA 2018). The overall remedial goal (RG) for OU3 is to reduce concentrations of each of the site-related contaminants of concern (COCs): PCE, trichloroethylene (TCE), 1,2-dichloroethane (DCE), and vinyl chloride (VC) to their respective soil cleanup level listed in **Table 1-1**.

1.2 SITE SUMMARY AND PROJECT BACKGROUND

1.2.1 Site Background

The ABC One-Hour Cleaners Superfund Site is a former dry-cleaning facility located in Jacksonville, Onslow County, North Carolina. The Site is located at 2127 Lejeune Boulevard, approximately two miles from the Camp Lejeune Marine Corps Base within the city's commercial district (**Figure 1-2**). The Site sits on one acre and was comprised of three buildings (front, middle, and north) that were connected to form one unit (the buildings were demolished in 2017, and the concrete pad was left in place). A septic tank system housed in the middle building served as the origin of the improper disposal practices that were conducted at the Site. These practices resulted in the presence of high concentrations of PCE and its constituents in the groundwater and soil, formerly OU1 and OU2, respectively.

From 1964 to 2005, ABC One-Hour Cleaners served as a small family-owned dry-cleaning business. PCE, a common dry-cleaning solvent, was used as a part of the operations and was stored in a 250-gallon above ground storage tank located along the west side of the middle building.

PCE contamination originated from the following known sources related to historical site activities:

- Direct discharge of PCE solvent into the septic tank and adjoining floor drain
- Burial of PCE residues in the surface soils outside the three buildings
- Leachate from the buried PCE residues into subsurface soils and underlying groundwater
- Volatilization of the PCE contaminated soil and groundwater resulting in soil gas that has the potential to migrate into adjoining buildings

By 2001, dry-cleaning operations had been terminated and the ABC One-Hour Cleaners' buildings were unoccupied. In 2005, the ABC One-Hour Cleaners business was sold, although the property was not. The business was renamed as A-1 Cleaners and served only as a drop-off location. The city of Jacksonville condemned the former ABC One-Hour Cleaners' buildings in 2011 due to extensive damage caused by Hurricane Irene. The buildings were demolished by December 2017.

Due to the presence of the soils highly impacted with PCE, the concrete foundation slabs were left intact. Since 2019, the septic tank and surrounding highly contaminated soils were removed and an 8-foot chain linked fence was installed around the perimeter of the concrete pad.

1.2.2 Previous Investigations and Remedial Actions

In 1989, EPA and the North Carolina Department of Environment and Natural Resources, now the North Carolina Department of Environmental Quality (NCDEQ) identified PCE COCs in the soil and groundwater at levels that posed an unacceptable risk to the public and environment. The unacceptable contaminant levels resulted in the Site being placed on the Superfund Program's National Priorities List in 1989.

EPA conducted a Remedial Investigation (RI) and Feasibility Study (FS) in 1991 where PCE was detected at concentrations that posed unacceptable risks to human health and the environment in both groundwater and soil (OU1 and OU2, respectively) and would require EPA to take further action (Roy F. Weston, Inc. 1992).

In 1993, EPA issued a Record of Decision (ROD) for OU1, selecting pump-and-treat coupled with monitored natural attenuation (MNA) as the groundwater remedy. To further supplement the protectiveness of the OU1 remedy, institutional controls that restricted the potable use of the groundwater contaminated by the Site activities were voluntarily implemented by the U.S. Marine Corp Base Camp Lejeune. EPA issued the OU2 ROD in 1994, selecting SVE as the remedy to address soil contamination. The OU1 and OU2 remedial systems operated from 2000 until 2011. The OU1 remedy was turned off as prescribed in the 1993 ROD to transition to MNA. The OU2 remedy was dismantled due to severe damage sustained from Hurricane Irene in 2011. The 2013 Five-Year Review determined that the OU1 and OU2 remedies were ineffective, due to persistent concentrations of PCE being reported in groundwater and soil (EPA 2013).

In response to the 2013 Five-Year Review determination, EPA conducted several investigations between 2012 to 2015 using direct-push technology and direct-push membrane interface probe. The investigations focused on delineating the boundaries of the groundwater plume, characterizing the relationship between the impacted soil and groundwater media, and determining the potential for vapor intrusion (VI) impacts in adjoining buildings.

Additional investigations were conducted as a part of the 2018 ABC One-Hour Cleaners Superfund Site, OU3, Focused Remedial Investigation (FRI; Black & Veatch 2018a). The FRI concluded that with the fluctuating water table and groundwater flow, the contaminated soil serves as the source of contamination to groundwater. As a result, EPA established OU3, where both the contaminated groundwater and soil media will be addressed under one effort with the understanding that the source material (contaminated soil, non-aqueous phase layer) will be addressed prior to the selection of a groundwater remedy. The efforts under the FRI further characterized the extent of source material and groundwater contamination, as additional properties located east of the Site were sampled. The source material in soil was confined within the boundary of the footprint of the former buildings of the Site with PCE concentrations exceeding 6,000 milligrams per kilogram. The FRI also raised the suspicion that VI concerns may be present as source material was detected

near an adjoining building located east of the Site. The adjoining building houses an active commercial business (Major's).

With the determinations gathered from the FRI, EPA identified several methods that demonstrated the potential to address the soil and groundwater contamination detected at the Site. These methods are presented in the 2018 ABC One-Hour Cleaners Superfund Site, OU3, Feasibility Study Report (Black & Veatch 2018b).

To support the remedial efforts, EPA conducted a time-critical removal in 2019, in which the septic tank and surrounding soil were removed (the excavated area was backfilled and covered with concrete). The removal effort also included the installation of an 8-foot chain-link fence that encompasses the entire area of the footprint of the former Site buildings. The pre-RD efforts also included a VI Study conducted in and directly outside of Major's in 2017 and 2020. Based on the results of this study and the site conditions at the time, EPA determined that no complete exposure pathway for VI exists in Major's but also confirmed the presence of source material beneath the building (Black & Veatch 2020b).

1.2.3 Remedial Action Overview

ISTR was implemented to address current and potential future risks associated with the COC impacts to soil and groundwater at the Site. The specific forms of ISTR that were used are TCH and SEE. TCH is a heating technique that uses electrically-powered resistive heaters placed inside steel casing to generate heat, which transfers to the formation by thermal conduction, driven by temperature gradients. SEE delivers steam to the subsurface through small diameter, short-screen intervals to optimize distribution of the steam to the more permeable portions of the TTZ. COCs were extracted as vapor and liquid (condensate) and were treated in a vapor and liquid treatment system prior to discharge.

1.2.3.1 Remedial Action Objectives

EPA's selected OU3 remedy of ISTR coupled with SVE will address the source material and, in turn, eliminate the presence of VI concerns at the adjoining building while minimizing its influence on the underlying groundwater media. By addressing the source material, the remedy will ultimately achieve the performance measures and/or the RGs and remedial action objectives (RAOs) presented in the Interim Action ROD. The RAOs for the interim action were developed based on the current and reasonably anticipated future land use as commercial, with the objective of protecting the public from potential current and future health risks as well as protecting the environment.

The RAOs for the OU3 remedy are to:

1. Prevent ingestion, dermal contact, and/or inhalation of the soils or soil vapors in the source area, as well as within the unsaturated zone and saturated source zone, containing COCs at concentrations that could result in adverse health effects to humans under commercial land use.

2. Reduce or eliminate long-term leachability of soil COCs into groundwater by meeting soil leachability criteria.

To achieve the second RAO, RGs for soil were defined for ISTR Zones 1–5 and the shallow SVE system. In order to achieve the reduction or elimination of long-term leachability of soil COCs, the RGs are based on North Carolina's State leachability values. The RGs in **Table 1-1** provide numerical criteria that were used to measure the progress in meeting the RAOs for the cleanup of soil. Evaluation of system performance is discussed in **Section 4**.

1.2.3.2 Technology Overview

TCH and SEE were implemented to remediate Site COCs. A conceptual sketch of a TCH and SEE remediation process is shown in **Figure 1-3**.

The heating system is supported by an extraction, condensing, and treatment system, which includes the following:

- Co-located VEWs, MPEs, and HVEWs to remove vapors and steam from the TTZ
- Heat exchangers to cool recovered contaminant vapors
- Liquid/vapor separator (knockout pot)
- Vacuum blower to transfer steam and vapors from the extraction wells to the treatment system
- Liquid treatment system
- Vapor and liquid treatment using vapor-phase granular activated carbon (VGAC) and liquid granular activated carbon (LGAC)
- Conveyance pipe
- Valves, gauges, and sensors to control and monitor recovery and treatment operations
- Electrical power distribution equipment and infrastructure
- Boiler and steam distribution piping, regulators, and wellheads

The process was automated with a TT operator overseeing the system while collecting instrument data and multi-media samples. As the Site is heated, fluids are extracted, cooled, separated, and treated. The subsurface process is monitored using temperature sensors and sampling and analysis of subsurface fluids.

1.3 BASIS OF DESIGN

EA/TT evaluated TCH, SEE, and ERH technologies for implementation at the site. EA/TT selected TCH as the appropriate technology and added SEE to the design based on data collected during the Pre-Remedial Investigation (PRI) discussed in **Section 1.3.2**. The primary goal of ISTR identified by the 2018 IROD was to thermally treat soils containing PCE concentrations that exceed the RGs identified in **Table 1-1**. A secondary goal of mitigating exposure to fugitive vapors generated during thermal heating was also established. EA/TT's ISTR system design, developed with the design considerations and the remedial action objectives and goals identified in the IROD, is discussed in the sections below.

1.3.1 Geology and Hydrogeology

The geology within the TTZ at the Site consists of the following stratigraphy and approximate depths.

- Vadose zone, 0–16 feet bgs
- Surficial Aquifer, 16–68 feet bgs
- Castle Hayne Aquifer, >68 feet bgs

The vadose zone extends to a depth of approximately 16 feet bgs and consists primarily of sandy clay media with thin, discontinuous, interbedded layers of sands, silts, and clays. At the bottom of the vadose zone, the Surficial aquifer material transitions from sandy clay to clayey sand at approximately 18 feet bgs, followed by fine to medium grained sand at approximately 30 feet bgs. This medium-grained sand extends to approximately 68 feet bgs and is underlain by a shelly, gravelly highly transmissive zone that is identified as the top of the Castle Hayne aquifer.

The permeability of subsurface media generally increases with depth from the sandy clay media in the vadose zone through the sandy Surficial aquifer to the shelly, gravelly material at the top of the Castle Hayne aquifer. The permeability of the media influences the movement of contamination and groundwater in the subsurface. The ISTR system focuses on treatment of the COC source material in the subsurface soil and Surficial aquifer.

The water table is found between 15 and 16 feet bgs. A representative depth to groundwater of 15 feet bgs was assumed in this design. Groundwater within the TTZ flows predominantly southeast. The hydraulic conductivity at the Site in the Surficial aquifer ranges from 50 to 80 feet per day (feet/day) based on results from the HPT completed in January 2023. A representative hydraulic conductivity of 65 feet/day and a hydraulic gradient of 0.006 feet per foot were used as a basis for ISTR design.

1.3.2 Pre-Remedial Investigation and Design Refinement

The ISTR TTZ was originally divided into five treatment zones extending no further east than the Major's building, as shown in Figure 3-15 of the RD (Black & Veatch 2020a). EA executed a PRI data gap investigation, in January 2023, focused on the lateral and vertical source material delineation beneath the Major's building to the east. PRI data also assisted in the establishment of

baseline conditions including potential impacts from the septic tank removal on vertical and surface contaminant migration, verification of the square footage of the surface soil treatment areas identified in the RD, verification of the location of the transmissive zone within Treatment Zones 4–5, and the confirmation of on-site geotechnical characteristics.

Three vertical soil borings were installed on the eastern boundary of the Site, and one vertical soil boring was installed in the middle of the site, approximately 20 feet south of the former septic tank location. Four angled borings were installed starting at ground surface along the eastern edge of the Site, two of which were advanced at a 22° angle and two of which were advanced at a 55° angle under the adjacent Major's building. Three hydraulic profiling tool (HPT) points were advanced in the middle of the site, near the former septic tank area. The PRI results are discussed in detail in the PRI Summary and Impacts on Thermal Treatment Areas Memorandum dated 20 June 2023 (EA 2023a), included as **Appendix A**. Refinements were made to Treatment Zones 1 through 5 following evaluation of HPT data, which identified higher hydraulic conductivities (50 to 80 feet/day) than were reported in the RD (9 to 14 feet/day). EA/TT addressed the potential for higher groundwater flux by adding supplemental SIWs to select heater locations, as identified in **Section 2.5.3**. Additionally, heaters in Zone 5 were extended vertically by 5 ft. PRI results additionally supported the addition of Treatment Zone 6 beneath Major's, increasing the treatment volume by approximately 40%. Treatment Zone designations are discussed in **Section 1.3.3**.

1.3.3 In Situ Thermal Remediation Target Treatment Zone

The ISTR TTZ is organized into six zones (i.e., Zones 1, 2, 3, 4, 5, and 6 [under Major's]) that correspond to varying treatment depths extending from ground surface to between 20 and 66 feet bgs. As shown on **Figure 1-4**, Zones 1–5 have telescoping treatment depths, with the outermost zone (i.e., Zone 1) treating from ground surface to 20 feet bgs, and each successive interior zone extending deeper. Treatment Zones 1 through 5 are located below the former ABC One-Hour Cleaners facility and a portion of the two adjacent alleys to the east and west. Zones 1–5 have a combined treatment area of 6,492 square feet and treatment volume of 7,897 cubic yards (CY). Zones 1–5 were determined based on the concentrations of COCs in soil, primarily PCE, above soil RGs to address source material and to eliminate further leaching into the underlying groundwater media.

Treatment Zone 6 is located on the eastern portion of the Site underneath Major's and spans an area of 2,200 square feet and a volume of 3,259 CY. This area represents a 40-foot (north to south) by 55-foot (east to west) footprint below the Major's building directly above the high concentration Surficial aquifer groundwater plume depicted in Site documents (Black & Veatch 2018a and 2018b). The TTZ below Major's was determined based on soil characterization results collected from angled borings installed below the building during the PRI and an assumed extent of the PCE source material based on groundwater data collected during previous RIs (Black & Veatch 2020a). The extent of treatment also reflects the practical limitations of treating below Major's while minimizing disruption to the business during both construction and operation of the ISTR system. Treatment of source material and installation of a sub-slab depressurization system below Major's addresses the potential for VI in the immediate vicinity of the source area and below the active business to support achievement of the first RAO.

After reviewing the HPT profiles collected during the PRI and comparing to hydrogeological data presented in the RD, the range in hydraulic conductivities measured in the Surficial aquifer (i.e., 50 to 80 feet/day) during the PRI appears closer to the hydraulic conductivities reported in the RD for the more transmissive underlying Castle Hayne aquifer, which ranged from 3 to 109 feet/day with an average of 56 feet/day. The RD reported hydraulic conductivities ranging from 9 to 14 feet/day in the Surficial aquifer (EPA 2018).

To address this potential for higher groundwater flux, supplemental SIWs were added to select heater locations (i.e., co-located in the same borehole) and some heaters were extended deeper than the TTZ to preheat groundwater entering Zone 6. Inclusion of supplemental steam will offset heating losses in the more transmissive portions of the Surficial aquifer. All wellfield borings and wells treating below the eastern alley and Major's will be installed using angled drilling methods to ensure minimal disruption to the store's business operations. Plan view extents of the TTZ are shown in **Figure 1-4**, and a summary of TTZ dimensions is provided in **Table 1-2**.

1.3.4 Wellfield Design

The ISTR wellfield design included installation of heater wells to depths of 5-feet below the bottom of each treatment zone to ensure that target temperatures were reached from ground surface to the bottom of each zone. In Zone 6, where the top of the TTZ was 10 feet bgs, heating extended approximately 5 feet above the TTZ (5 feet bgs). An insulated vapor cover with an insulation value of R-12 was designed to cover the ISTR TTZ footprint, except for Zone 6 below Major's and the eastern alley. The vapor cover was designed to minimize heat losses, and therefore ensure proper treatment of the upper portion of the TTZ and prevent condensation of volatilized COCs in shallow soil. The three layers of the vapor cover consisted of the following: (1) a base layer of concrete, 3–4 inches thick, (2) a middle layer of 3-inch, high temperature-rated, closed-cell foam insulation board, and (3) an upper layer of 2 to 3-inches of concrete above the foam boards. The Major's building slab and the asphalt covering the alley acted as adequate vapor barriers for Zone 6 during ISTR, as confirmed by periodic indoor air sampling, discussed in **Section 4.1.5**.

The ISTR wellfield components included the following:

- Heaters were spaced approximately 11–12 feet apart along the perimeter of the Site, and approximately 13–14 feet in the interior. The ISTR system included a total of 83 heaters. The heated zone depth begins at surface in Zones 1–5. The heated zone depth in Zone 6 begins at 5 feet bgs. The heater cans will be installed to approximately 5 feet below the TTZ to allow for thorough heating across the bottom of the TTZ and thermal expansion of the heaters during the remedy.

- Twelve heaters with co-located SIWs to offset heat losses due to groundwater flux.

- Forty-two heaters with co-located vapor extraction wells to recover and direct vapors to the treatment system.

- Ten HVEWs to recover vapors and direct them to the vapor treatment system from Zone 6.

- Sixteen MPEs to recover groundwater, vapor, and steam from the subsurface and direct them to the vapor and liquid treatment system.

- Eight TPMPs to monitor subsurface temperature and pressures.

A summary of all ISTR well types can be referenced in **Tables 1-3 and 1-4.** The ISTR well field is shown on **Figure 1-5**. Detailed construction drawings of the ISTR system components can be found in **Appendix B**. Well construction details are discussed in **Section 2.5**.

1.3.5 Soil Vapor Extraction System Wellfield

The SVE system wellfield consisted of the following three components.

Onsite shallow Horizontal soil vapor extraction (HSVE) wells: Constructed north of the TTZ to treat shallow soils where PCE contamination was identified between 0 and 2 feet bgs in the RD (Black & Veatch 2020a). Five HSVE wells were installed, plus one horizontal air entry well to route airflow towards the HSVE wells.

Onsite ISTR VEWs: Co-located with MPEs or vertical TCH heater wells as described in **Section 1.3.4**. Constructed to collect vapors from the ISTR TTZ.

Offsite shallow HSVE wells: A HSVE wellfield was installed beneath the Major's building adjacent to the eastern side of the site (**Figure 1-6**) to capture vapors from Zone 6 to act as a sub-slab depressurization system for the building and to mitigate vapor intrusion concerns. Construction details for the offsite HSVE system are discussed in **Section 2.7**.

1.3.6 Vapor Extraction and Treatment System

The vapor treatment system's components were mounted within two containers with interconnecting piping. The system consists of the following major items (the tag numbers refer to the equipment designations shown on Drawing P102 in **Appendix B**):

- Condensate knockout tank (S-101)
- Caustic supply system (T-301 and P-301A/B)
- Vapor heat exchanger (E-101A/B)
- Moisture separator (S-102)
- Process blowers (B-101A/B)
- VGAC vessels (VGAC-151-1/2/3)

1.3.6.1 Condensate Knockout Tank (S-101)

The vapor extracted from the subsurface was a mixture of non-condensable vapors (primarily air), steam, liberated COCs, and extracted groundwater. As vapors flowed from the wellfield to the process treatment system via the conveyance piping, some liquid would condense out due to both friction losses and heat losses. For this reason, a condensate knockout tank (S-101) was the first unit operation in the vapor treatment system. Consisting of a horizontal tank, any liquid that accumulated was sent to the liquid treatment system for further processing via the condensate

transfer pumps (P-201 A/B). These air-operated diaphragm pumps ran intermittently based on liquid level. The condensate knockout tank and air-operated diaphragm pumps were supplied with instrumentation and level control.

1.3.6.2 Vapor Heat Exchanger (E-101A/B)

After passing through the condensate knockout tank (S-101), vapors flowed through the heat exchanger(s) (E-101A/B) to cool and condense the incoming steam to reduce the moisture content. Cooling water was supplied by a cooling tower (W-451). Each heat exchanger was designed to sufficiently reduce the temperature of the vapor stream to approximately 100 degrees Fahrenheit (°F). This allowed for the bulk of the moisture to be removed from the wellfield vapors, making subsequent treatment more efficient.

Both the vapor stream and cooling fluid sides of the heat exchangers were instrumented with temperature indicators to allow adjustment of the recirculation loop flow to maintain proper moisture removal.

1.3.6.3 Moisture Separator (S-102)

A moisture separator (S-102) immediately followed the heat exchangers (E-101 A/B) to separate the condensate from the vapor stream, which was subsequently sent to VGAC. Condensate was pumped via an air-operated diaphragm pump (P-202A/B) to the liquid treatment system for further processing. As with S-101, the pumps cycled on and off based on liquid level, and only one pump operated at a time. The moisture separator and pumps were supplied with instrumentation and level control.

1.3.6.4 Process Blower (B-101A/B)

The process blowers supplied the motive force (vacuum) needed to draw the vapors from the wellfield and through the off-gas treatment system. Two blowers were supplied, one operating and one on standby. The vacuum that was applied to the wellfield was expected to be relatively low, in the range of 20" water column.

1.3.6.5 Vapor Phase Carbon Vessels (VGAC-151-1/2/3)

Three 3,000-pound (lb) VGAC vessels in series were used to adsorb the COCs from the vapor stream. A total of 12,000 lb of VGAC media was anticipated to be used throughout the project. The vessels were plumbed in series and were equipped with sample ports to monitor adsorption efficiency during operation. Piping between the vessels will include flanged hose assemblies to facilitate switching lead/lag positions and accommodate media change-outs.

The VGAC vessels were followed by a single 3,000-lb vessel filled with 2,600 lb of potassium permanganate media (Z-151). This vessel served as the primary means for removal of VC from the vapor stream. It was anticipated that less than 2,000 lb of potassium permanganate media will be required, thus changeout of the vessel was not anticipated.

1.3.7 Liquid Treatment System

The liquid treatment system handled all liquids generated during ISTR operations. Treatment consisted of a combination of filtering, cooling, gravity separation, and carbon absorption. The liquid treatment system components were all in a standard container, complete with interconnecting piping. The system consisted of the following major items:

- Bag filters (FX-201A/B)
- Liquid heat exchanger (E-201)
- Oil/water separator (OWS-201)
- Dense non-aqueous phase liquid (DNAPL) storage tank (T-351)
- Light non-aqueous phase liquid (LNAPL) storage tank (T-352)
- Oil/water separator transfer pumps (P-203A/B)
- Bag filters (FX-202A/B)
- LGAC vessels (LGAC-251/252)

Final treated water was discharged to the sanitary sewer as discussed in **Section 3.1**.

1.3.7.1 Bag Filter Skid (FX-201A/B)

The liquid from the moisture separators was pumped through a duplex bag filter assembly (FX-201A/B) to remove any coarse particles before entering the liquid heat exchanger. Bag filters were 25-micron and could be manually changed, periodically, as necessary.

1.3.7.2 Liquid Heat Exchanger (E-201)

The liquid treatment system included a liquid heat exchanger (E-201) to cool the process liquid prior to delivery to the oil/water separator (OWS-201). The heat exchanger received condensate from bag filters FX-201A/B and cooled the liquid to approximately 100 °F. Cooling water for the liquid heat exchanger was supplied by the cooling tower (W-451). The heat exchanger was fitted with pressure and temperature gauges to monitor the operating conditions of the heat exchanger.

1.3.7.3 Oil/Water Separator (OWS-201), Dense Non-Aqueous Phase Liquid (T-351), and Light Non-Aqueous Phase Liquid (T-352) Storage Tanks

The oil/water separator (OWS-201) separated DNAPL and LNAPL from the remaining aqueous phase. Internally, the separator is partitioned into separate LNAPL and DNAPL accumulation areas, delineated by a coalescing plate pack, an underflow weir, and an overflow weir. The separator was equipped with a vapor-tight cover that vented to the vapor treatment system.

DNAPL would be pumped out of the bottom of the DNAPL accumulation chamber periodically via air operated diaphragm pumps (P-301 A/B). The pump operates via level control within the chamber. LNAPL would be manually skimmed from the LNAPL accumulation area. The oil/water separator was skid-mounted with the pumps, piping, valves, instruments, and controls. Separated non-aqueous phase liquid (NAPL) would be stored in a DNAPL storage tank (T-351) and LNAPL

storage tank (T-352) prior to off-site disposal. Both NAPL storage tanks were equipped with high level switches and secondary containment.

1.3.7.4 Non-Aqueous Phase Liquid Separator Transfer Pump (P-203A/B)

A set of transfer pumps (P-203A/B) evacuated the water from the NAPL Separator (OWS-201) through bag filters (FX-202A/B) and LGAC tanks (LGAG-201/202) to the treated water holding tank (T-251). The transfer pumps were close-coupled, centrifugal type pumps and were electrically controlled by variable frequency drives. Pump speed was controlled by a level transmitter in a stilling well/sight glass mounted on the effluent chamber of the NAPL separator. A backup pump was installed in the event of primary pump malfunction.

1.3.7.5 Bag Filter Skid (FX-202 A/B)

The liquid from the NAPL separator (OWS-201) was pumped through a bag filter skid (FX-202A/B) to remove any residual particulate before entering the liquid phase carbon vessels. Ten-micron bag filters were installed initially and could be manually changed periodically as necessary.

1.3.7.6 Liquid-Phase Granular Activated Carbon (LGAC-201-1/2/3)

A set of two LGAC vessels in series were used as primary dissolved phase COC treatment for the liquid stream. Both vessels were charged with 1,000 lb of LGAC media. The vessels were plumbed in series and were equipped with sample ports to monitor adsorption efficiency during operation. EA/TT anticipated that a total of 2,000 lb of LGAC would be required during treatment. Although changeouts of these vessels were not anticipated, the connections between each vessel were made with flexible hose to allow for easy maneuvering.

1.3.7.7 Cooling Towers (W-401 & W-402) and Cooling Water Pumps (P-401A/B, P-402 A/B)

Two cooling tower units were used to provide non-contact cooling water for the vapor and liquid heat exchangers, respectively. The units provided an expected 160 tons of cooling capacity: a 100-ton unit (W-401) to service the vapor heat exchanger and a smaller 60-ton unit (W-402) to supply cooling water to the liquid heat exchanger. The cooling towers were designed to supply cooling fluid at a maximum of 88 °F (i.e., the worst-case summer ambient temperatures anticipated for Jacksonville, North Carolina) at approximately 340 gallons per minute. Make-up water to the cooling tower was drawn from an existing hydrant on the Site. All blowdown water was combined and discharged to the sewer.

1.3.7.8 Air Compressor (Z-501A/B)

TT's containerized vapor and liquid treatment system included an air compressor to supply air to the diaphragm pumps and actuated valves. In addition, two (one operating and one spare) sound-dampened rotary screw type air compressors were installed at the Site. These additional compressors were used to supply air to the MPE pumps in the wellfield. The compressors were equipped with a refrigerant-type aftercooler for moisture removal, a receiver tank (T-501), and

filter/regulator assemblies. The compressors were mounted in a weatherproof, ventilated, and sound-dampened enclosure.

1.3.7.9 Boiler (V-951)

A 50-horsepower steam boiler supplied the steam for injection into the wellfield. The boiler needed to supply 600 lb per hour of steam at a minimum of 50 lbs per square inch in gauge. A water softener system was included to reduce the water hardness to minimize scaling of the steam boiler. The water softener and booster pumps were supplied as part of the boiler package.

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2. CONSTRUCTION ACTIVITIES

EA and TT mobilized to the Site on 8 May 2023 and Cascade Environmental (Cascade) mobilized to the Site on 16 May 2023 for ISTR wellfield installation.

2.1 PRE-CONSTRUCTION PLANNING

EA prepared and submitted several planning documents to EPA prior to beginning the construction phase of work. A Technical Management Plan was developed, presenting EA's technical approach, project organization, subcontractor management, and public involvement approach (EA 2022a).

EA prepared a Site Management Plan, Waste Management Plan, and Air Quality Management Plan under a single cover (EA 2022b). The Site Management Plan detailed the processes, procedures, and safeguards to be used to ensure that contaminants or pollutants were not released off-site during implementation of the interim remedy. The Waste Management Plan provided instructions for collecting, handling, packaging, transporting, and disposing of waste generated during field activities. The Air Quality Management Plan presented means to ensure no contaminated gas would be generated during the interim remedy operation and detailed EA's air monitoring approach.

A Remedial Action Work Plan was developed, detailing the TCH ISTR system design and refinements to the TTZ following completion of the PRI, construction activities and sequence, and ISTR system process monitoring and performance evaluation sampling and objectives (EA 2023c). The RAWP was updated several times throughout the planning and ISTR system construction phases of work to account for design refinement.

EA's Health and Safety plan detailed employee training, personal protective equipment, medical surveillance, standard operating procedures, and emergency response and reaction to site contingencies (EA 2023b).

A Uniform Federal Policy – Quality Assurance Project Plan (UFP-QAPP) was developed, describing the necessary quality assurance, quality control, and other technical activities that were implemented to ensure that the results of the work would satisfy the performance criteria (EA 2022c). The UFP-QAPP included specification of data quality objectives, a Data Management Plan, and a Field Sampling Plan. The Data Management Plan detailed the standard processes, procedures, and tools that EA used to support the interim remedy. The Field Sampling Plan described the number, type, and locations of samples and the types of analyses.

2.2 SITE PREPARATION

EA/TT established a laydown/storage area in the open grass field north of the TTZ. EA placed 47.88 tons of stone to level the existing ground surface for temporary facilities and equipment/vehicle traffic. A 20-foot (received 10 May 2023) and a 40-foot (received 24 May 2023) office trailer were installed in the laydown area with internet service for the duration of field activities. Two 20-foot conex storage containers, received on 10 May 2023 and 15 May 2023, were also staged in the laydown area. Additional chain-link fencing with locking gates was installed

around the laydown area to supplement the permanent fencing already installed around the former ABC Cleaners parcel. EA/TT secured access points prior to leaving the site every day, and the site was monitored by security cameras during off hours.

Two project signs, including a Bipartisan Infrastructure Law (BIL) funding sign and a site-specific Superfund sign were designed, produced, and installed on the exterior fence facing Lejeune Boulevard.

EA/TT originally planned to use the existing concrete slab as the base layer of the vapor cover, however, closer inspection upon mobilization revealed substantial cracking, patching seams, and inconsistent thickness. Areas of the slab that were damaged during drilling were removed and recycled. The vapor cover was constructed on top of the remainder of the slab.

A permit was secured from the city of Jacksonville for installation of a driveway access to the site off Liberty Drive.

2.3 EXISTING UTILITIES

Blood Hound, a geophysical utility locator, scanned and identified underground utilities on and around the Site during the PRI in January 2023 and again on 9 May 2023 to facilitate installation of wells on a 10-foot grid. Blood Hound provided EA with a report indicating where underground utilities/anomalies were identified, which was submitted to EPA. North Carolina 811 was contacted prior to each phase of intrusive activities.

2.4 ABANDONMENT OF EXISTING MONITORING WELLS

Three previously unidentified monitoring wells were identified within the thermal treatment area (**Figure 2-1**). EA requested permission to abandon the monitoring wells, which was granted by EPA on 20 July 2023. Wells were tremie-grouted using cement-bentonite grout in accordance with North Carolina well abandonment procedures identified in 15A North Carolina Administrative Code 02C .0113 Abandonment of Wells (NCDEQ 2009). Well details are listed below.

- Well #1: 2-inch well, total depth of 45-feet bgs, located at 34.741667, -77.36639
- Well #2: 2-inch well, total depth of 35-feet bgs located at 34.741667, -77.36667
- Well #3: 2-inch well, total depth of 80-feet bgs located at 34.7413894, -77.36639

2.5 WELL INSTALLATION

A total of 118 wells were installed during ISTR wellfield construction, the bulk of which occurred between 18 May 2023 and 10 October 2023. Additional SIWs and horizontal vapor recovery wells were installed during system operation, as described in the subsections below. Wellfield components included TCH heater wells, TCH heaters co-located with vapor extraction wells or SIWs, multi-phase extraction wells, temperature monitoring points, and vapor extraction wells.

2.5.1 Heater Wells

Cascade installed 28 heater wells to supply heat by thermal conduction from the top of the TTZ to 5 feet below the bottom of the TTZ, which varied depending on location in the wellfield (26 to 73 feet bgs). A 6-inch diameter boring was advanced for each heater well, followed by installation of 3-inch carbon steel (CS) to depth with high-temperature thermally conductive grout plug installed in the annular space from ground surface to the bottom of the boring.

After wells were completed, heating elements were installed inside of the CS casing to the bottom of the well. Heating elements were wired directly to the main switchboard (MSWB), as described in **Section 2.8.3**.

2.5.2 Heater Wells with Vapor Extraction

Cascade installed 42 TCH heaters with co-located extraction wells at various angles from 22° to 90° (vertical) from horizontal. Thirteen vertical borings were drilled down to 26–73 feet bgs (6–7 feet below the TTZ), depending on the treatment zone, and angled borings were drilled to lengths from 27 to 87.5 feet on angle from ground surface. TCH heaters with co-located extraction wells were constructed identically to the TCH heater wells with the addition of a 10-foot long by 1-inch diameter, 0.010 slot stainless steel (SS) screen installed from 3 to 13 feet bgs joined to a 1-inch CS schedule 80 riser pipe for vapor extraction. A 7-inch boring was advanced to accommodate the additional material. The boring was backfilled with thermally-conductive grout from the bottom of the boring to the bottom of the TTZ, a mix of #00 sand with crushed limestone from the bottom of the TTZ to 1 foot bgs, and another interval of thermally conductive grout from 1 foot bgs to ground surface.

2.5.3 Heater Wells with Steam Injection

Cascade installed 12 TCH heaters with co-located SIWs at various angles from 83° to 90° (vertical) from horizontal. Vertical borings were drilled down to 57 to 73 feet bgs (7 feet below the TTZ), depending on the treatment zone. Angled borings were drilled to lengths of 57.5 feet on angle from ground surface. Heaters with co-located SIWs were constructed identically to the TCH heater borings with the addition of a 2-foot long, 1-inch diameter, 0.010 slot SS screen installed 2 feet bgs below the TTZ, joined to a 1-inch CS schedule 80 riser pipe for vapor extraction. A 7-inch boring was advanced to accommodate the additional material. The boring was backfilled with thermally-conductive grout from the bottom of the boring to 2 feet below the bottom of the SIW screen, a mix of #00 sand with crushed limestone from 2 feet below the bottom of the SIW screen to 30 feet bgs, and another interval of thermally-conductive grout from 30 feet bgs to ground surface. A 0.5-inch CS pipe was installed in select heater wells for temperature monitoring along the heater boring.

Two additional SIWs were installed in post-remediation soil borings SB-04 and SB-06 in April 2024 to optimize treatment in the target areas of the wellfield. Further discussion of the rationale for and installation of the additional SIWs is provided in **Sections 2.9.3** and **4.1.2**.

2.5.4 Multi-Phase Extraction Wells

Cascade installed 12 vertical and 4 angled (38° from horizontal) multi-phase extraction wells. The MPEs were used to extract steam, vapors, and liquids from across the TTZ. The 12 vertical MPEs were installed in Zones 1–5 and were installed between 22 and 68 feet bgs, depending on the treatment area. The 4 angled MPEs were installed under Major's and were drilled to lengths of 83 feet on angle from ground surface and depth of 51 feet bgs. Each MPE was installed with a 2-foot sump. The top of the screened interval was 3 feet bgs for vertical wells, and 16 feet on angle for angled wells, to allow for vapor extraction from the vadose zone. Wells and pumps were designed to extract at least 1.5 times the injected volume of condensed steam applied by the steam injection system in addition to groundwater entering the TTZ under natural flow conditions. MPEs were positioned to achieve even coverage across the various zones, with a higher density near the area of steam injection and the deeper portions of the TTZ, and additional coverage below the building or on the downgradient portion of the ISTR system.

After well installation was complete, pneumatic pumps were installed at the bottom of the well with associated piping, which were tied into above-grade liquid conveyance piping. Vacuum lines were installed in MPE wellheads to pull vapors from the vadose zone into above-grade conveyance piping. Liquid and vapor conveyance piping is discussed in **Section 2.8.2**.

2.5.5 Temperature and Pressure Monitoring Points

Cascade installed eight TPMPs. Vertical TPMPs were installed 21 to 67 feet bgs (1-foot below the TTZ), depending on the area, and angled TPMPs were drilled to a boring length of 81 feet on angle from ground surface. A 6-inch borehole was advanced to depth, followed by installation of a 1.5-inch CS pipe from the bottom of the boring to ground surface to measure temperature, nested with a 1-inch CS pipe with a 1-inch, 0.010 slot SS screen to measure pressure from 3 to 5 feet bgs. TPMPs were instrumented with thermocouples every 3 feet across the treatment depth interval. The annular space was filled with high temperature grout from the bottom of the boring to 2 feet below the bottom of the screen. Sand (#00) was installed from the bottom of the screen to 1 foot bgs, and a grout plug secured the boring from 1 foot bgs to ground surface.

2.5.6 Horizontal Vapor Extraction Wells

Ellingson-DTD installed 10 HVEWs as part of the ISTR system under the Major's building to act as a sub-slab depressurization system for the building and capture fugitive vapors from the site. The HVEWs were installed using horizontal directional drilling methods.

HVEWs 1 through 5 were installed to 105 feet length at 7 feet bgs below Major's. A 4-inch borehole was advanced to depth, and then HVEWs were constructed with a 70-foot long, 2-inch SS screen, that was connected to 35-foot-long steel riser pipe that daylighted to the north of the building.

Five additional HVEW wells were installed under the eastern half of the building. HVEW 6, the closest well to the thermal treatment area, was installed with high temperature-rated chlorinated polyvinyl chloride (CPVC). The remaining four HVEWs were constructed with standard Schedule

80 polyvinyl chloride (PVC) components. HVEWs 6 through 10 were installed to 135-foot length on angle, with 90-foot 2-inch CPVC or PVC screen and 45-foot 2-inch CPVC or PVC riser pipe. **Table 2-1** presents offsite HVEW well construction details.

2.6 SVE SYSTEM WELLFIELD INSTALLATION

2.6.1 Onsite Shallow Horizontal Soil Vapor Extraction System

The onsite shallow HSVE system included the following components:

- 5 HSVE wells (HSVE-1 through HSVE-5): 1 55-foot long, 1 10-foot long, 3 5-foot long
- 1 55-foot long horizontal air entry well (AEW-1)
- High-density polyethylene cover
- Above-grade manifold to tie into the ISTR vapor treatment system

Horizontal well screens were installed in 2-foot-deep by 1-foot-wide trenches. Each well was constructed using 2-inch schedule 40, 0.010-slot PVC well screen, with 2-inch schedule 40 PVC riser/conveyance piping. Vertical risers were installed at one end of the horizontal well screen, and the other end was capped. HSVE trenches were backfilled with 1 foot clean #00 sand around the well screen with the last 1 foot to grade consisting of clean fill, then a high-density polyethylene ground liner. **Table 2-2** presents shallow onsite HSVE well construction details. The HSVE layout is depicted on **Figure 1-6**.

2.6.2 Onsite Horizontal Vapor Recovery Wells

Two 20-foot-long horizontal vapor recovery wells were installed adjacent to the southeastern portion of the site on 9 February 2024 during system operation. Both wells were tied into the existing vapor recovery system. Justification for installation of the two wells is discussed in **Section 2.10.3**.

2.6.3 Onsite In Situ Thermal Remediation Vapor Extraction Wells

MPEs and VEWs co-located with TCH heaters were installed as described in **Section 2.5**. Each MPE and VEW was tapped into vapor conveyance piping, detailed in **Section 2.8.2**.

2.6.4 Offsite Horizontal Vapor Extraction Well System

Ten HVEWs were installed under Major's, as detailed in **Section 2.5.6**. Each HVEW well was conveyed individually to the ISTR vapor treatment system. Wells 1 through 5 were conveyed through one trench, and wells 5 through 10 were conveyed through a parallel trench under Major's back parking lot. The trenches were pitched from 7 feet bgs at the well heads to ground surface, where the lines daylighted on the eastern boundary of the site. The individual lines were connected to a manifold, which was tied into the ISTR vapor treatment system. The manifold contained a shut off valve, pressure gauge, and flowmeter portal to monitor individual HSVE wells. The HSVE system layout is shown on **Figure 1-6**.

2.7 VAPOR COVER

The vapor cover was installed after completion of vertical well installation. As stated in **Section 2.2**, the existing concrete slab was determined to be unsuitable for use as the base layer of the vapor cover, so the base layer consisted entirely of new concrete placed over top of the existing concrete slab. Forms were constructed around the perimeter of the ISTR treatment area, then 120 CY, correlating to 3 inches of concrete, provided by SRM Concrete, was poured around newly installed stickup ISTR wells to serve as the base layer of the vapor cover. TT laid 3-inch-thick closed-cell foam insulation board on top of the concrete layer. Finally, another 103 CY of concrete was poured on top of the insulation board to finish the vapor cover.

2.8 TREATMENT SYSTEM

2.8.1 Process Equipment

The vapor and liquid treatment process equipment described in **Sections 1.3.6** and **1.3.7** were pre-fabricated by TT in 40-foot conex containers. The steam injection system was contained in a cargo trailer and was provided by CC Boiler. System details and layout are included in the TT ISTR Design Drawings (**Appendix B**).

2.8.2 Wellfield Piping

Six parallel above-grade horizontal liquid and vapor extraction conveyance lines were distributed across the ISTR treatment area to carry groundwater and vapor from MPE wells and VEWs to the liquid- and vapor-phase treatment systems. Liquid and vapor lines were run adjacent to one another but in separate conduits. The liquid line was constructed using 2-inch CS, and the vapor line was constructed using a combination of 8-inch, 6-inch, and 4-inch fiberglass-reinforced pipe. The six conveyance lines were fed into a main conveyance line running south to north along the eastern edge of the site, to the ISTR liquid and vapor treatment systems.

2.8.3 Wellfield Wiring

Heating elements installed in TCH heater wells were wired directly into the MSWB. Electric was installed by TT and was run above-grade from the MSWB to the wellfield.

2.9 SYSTEM UTILITIES

2.9.1 Electrical

EA established a new electric service with Jones-Onslow Electric Membership Corporation for power distribution to the ISTR system. An existing power pole was used to supply power to the site. The electrical power distribution system included the following:

- 2,000 kilovolt ampere, 13.8 volt (V) Delta – 480/277V Wye transformer
- MSWB rated at 480Y/277V, 3 phase, 4 wire, 65 Kilo Ampere Interrupting Capacity (kAIC); additional details of this switchboard are as follows:

— 5,000 ampere (A) rated switchboard with a 100% neutral bus, rated for Service Entrance use

— Skid-mounted and rated for outdoor use (National Electrical Manufacturers Association [NEMA] 3R); switchboard is designed and factory-tested in accordance with applicable American National Standards Institute, NEMA, Underwriters Laboratory, and Institute of Electrical and Electronics Engineers standards

— 5,000A Main Breaker, with adjustable trip settings (adjustable long time, short time, instantaneous and ground fault protection settings); trip setting will be adjusted to final load determination

— Main Breaker equipped with shunt trip such that an emergency stop will remove power to all TT equipment

— Four Branch circuit breakers with adjustable trip settings (adjustable long time, short time, and instantaneous protection); the branch breakers are sized for the specific loads (including the treatment system, heater circuits, and ancillary equipment)

- Secondary Switchboard (DP-10) 480Y/277V, 3 Phase, 4 Wire, 65kAIC for power feed to process loads

- TCH Power Control Switchboard (DP-01) rated at 480Y/277V, 3 phase, 4 wire, 65kAIC. Additional details of this switchboard are as follows:

  — 3,000A rated switchboard with a 100% neutral bus; rated for Service Entrance use

  — Skid-mounted and rated for outdoor use (NEMA 3R); switchboards are designed and factory-tested in accordance with applicable American National Standards Institute, NEMA, Underwriters Laboratory, and Institute of Electrical and Electronics Engineers standards

  — Five 600A Branch Breakers, with adjustable trip settings (adjustable long time, short time and instantaneous settings)

- Locally mounted and wired 480-240/120V transformer and 240/120V load center; the panel will be used to supply power for controls and auxiliary components such as ground fault circuit interrupter convenience receptacles, etc.

- 250 Kilowatt-hour diesel backup generator with an automatic transfer switch that would start the generator upon loss of grid power and shut it off once grid power was restored, the generator would provide power to the vapor and liquid treatment components only, not the TCH heaters

EA/TT procured Sawyer Industrial, LLC, a licensed electrician in the State of North Carolina, to connect the power pole to the transformers; the transformers to the MSWB, secondary

switchboard, and TCH power control switchboard; and the backup generator to the MSWB. Sawyer Industrial, LLC additionally wired the major treatment system components (process blowers, programmable logic control panel, air compressors, pumps, etc.) to the switchboards. The TCH heaters were wired to the TCH Control Switchboard by TT. System electric schematics are presented in sheets E100 and E101 of the ISTR Design Drawings, included as **Appendix B**.

2.9.2 Water

The city of Jacksonville installed a new hydrant onsite for use in steam injections and as non-contact cooling water in the liquid and vapor heat exchangers.

2.9.3 Natural Gas

EA established new natural gas service with Piedmont Natural Gas, including installation of 260 feet of gas utility piping from the gas main along Liberty Drive to the boiler staging area. Piedmont Natural Gas installed the gas service on 10 November 2023.

2.9.4 Sewer

EA secured approval from the City of Jacksonville, North Carolina to discharge treated process water to the municipal sewer system.

2.10 IN SITU THERMAL REMEDIATION SYSTEM OPERATION AND PERFORMANCE MONITORING

2.10.1 System Commissioning

The ISTR system was commissioned on 1 December 2023. The heater wells were activated at limited capacity, with gradual ramp-up to 100% over the first week to allow heaters to stabilize and heater liners to dry out. The shallow HSVE was brought online on 26 December 2023. The steam injection system was activated on 16 January 2024.

2.10.2 Performance Monitoring

The ISTR system was attended by two operators, onsite during weekdays, and on-call 24 hours per day, 7 days per week.

Operational data were collected and reviewed to track remediation progress during operation of the ISTR system. A programmable logic controller monitored temperatures, pressures, and flows through the aboveground treatment equipment, as well as the position of safety sensors and controls (e.g., pressure switches, level switches, and motor operated valves). Manual monitoring of site COCs in the vapor phase was performed daily using a handheld photoionization detector (PID). PID readings were taken as a total measure of volatile organic compounds (VOCs). Sample locations were located throughout the vapor treatment system such that removal efficiency of the vapor phase carbon beds could be monitored and media could be changed out in a timely manner to maintain compliance with vapor emissions requirements. Daily manual data checks/samples that were collected during ISTR operation are identified in **Table 2-3**.

In addition to the PID readings, vapor- and liquid-phase analytical laboratory samples were collected by EA/TT according to the ISTR system sampling schedule shown in **Table 2-4**. Vapor samples used to monitor wellfield VOC concentrations and mass removal were collected from the HSVE manifold as well as the combined wellfield SVE/HSVE VGAC influent line. Groundwater samples were collected from LGAC influent lines that are fed by MPE wells. EA/TT additionally collected groundwater samples from MPE wellheads twice during ISTR system operation to assess the performance of each section of the thermal wellfield. VGAC and LGAC midfluent and effluent samples were collected periodically during ISTR operation to monitor the condition of the granular activated carbon (GAC) in the treatment train and to verify VOC concentrations in vapor and liquid discharged from the system.

Indoor air vapor concentrations were additionally collected using passive samplers with sorbent tubes at two-week intervals from Major's to monitor the building for soil vapor intrusion. Results of indoor air sampling at Major's are discussed in **Section 4.1.5**.

2.10.3 Design Variances

Two horizontal vapor recovery wells were installed in the southeastern portion of the site due to steam escaping around the vapor cover in the alleyway between the Site and Major's. After the horizontal vapor recovery wells were installed and commissioned, no additional steam release was noted during ISTR system operation.

Zone 6 heating initially resulted in elevated floor temperature readings in Major's. Power was reduced to the shallower angled heater wells (22° from horizontal) to alleviate the impact of subsurface heating to the interior temperature of Major's.

Two additional SIWs were installed in post-remediation soil borings SB-04 and SB-06 to optimize heating in two areas of the TTZ that showed persistent PCE concentrations in water and vapor samples. The two additional SIWs are discussed further in **Sections 4.1.4** and **4.2**.

2.11 WASTE MANAGEMENT

Solid waste, including soil cuttings generated during the PRI and wellfield installation, and general construction and demolition waste were disposed of at Sampson County Disposal in Roseboro, North Carolina.

Concrete from the soil vapor cover and the existing building slab was broken up and recycled by Clean Management Environmental Group. Twenty-seven tons of concrete was recycled during system construction, which included a portion of the existing building slab. A total of 36.56 tons of concrete was recycled during system decommissioning, including the vapor cover and the remainder of the building slab.

Soil cuttings were containerized in rolloffs prior to offsite disposal. A total of 70.21 tons of soil was generated during ISTR wellfield drilling. Ten 55-gallon drums of soil were also generated and disposed of offsite. Soil investigation-derived waste (IDW) was disposed of as non-hazardous per waste characterization samples collected on 19 May 2023, which were analyzed for total metals (EPA Methods 6020B/7470A), herbicides (EPA Method 8321B), toxicity characteristic leaching

procedure (TCLP) semi-volatile organic compounds ([SVOCs] EPA Method 8270E), cyanide (EPA Method 9012B), sulfide (EPA Method 9034), moisture (EPA Method 9045D), polychlorinated biphenyls ([PCBs] EPA Method 8082A), ignitability and solids (EPA Method 1030), and TCLP pesticides (EPA Method 8081B).

Liquid IDW generated during well installation and development was disposed of at SR&R Environmental in Wilmington, North Carolina. A total of 6,382 gallons was disposed of during ISTR system construction. Liquid IDW was disposed of as non-hazardous waste per waste characterization samples collected on 01 December 2023, which were analyzed for VOCs (EPA Method 8260D), SVOCs (EPA Method 8270E), organochlorine pesticides (EPA Method 8081B), PCBs (EPA Method 8082A), herbicides (EPA Method 8321B), metals (EPA Method 6020B), mercury (EPA Method 7470A), ignitability (EPA Method 1010B), cyanide (EPA Method 9012B), sulfide (EPA Method 9034), and pH (EPA Method 9040C).

Treated effluent water from the liquid treatment system was discharged to the city of Jacksonville sewer system in accordance with 11 December 2023 approval from Mr. Steven Michael Moore (Jacksonville Department of Public Services).

Waste management documentation is included in **Appendix C**.

3. CHRONOLOGY OF EVENTS

EA was awarded the task order for technical services for remedial action to address soil contamination at the ABC One-Hour Cleaners Superfund Site located in Jacksonville, North Carolina on 22 September 2022. Major milestone completion dates, including planning document submittals, pre-remedial investigation, ISTR system construction and operation, post-remedial investigation, and site restoration, are identified in **Table 3-1**. EA's comprehensive project schedule is included as **Appendix D**.

3.1 SCHEDULE DELAYS

Schedule delays were encountered throughout the project duration, for reasons including design changes, weather, and delayed receipt of modifications. Significant changes to the original remedial design, detailed in **Sections 1.3.2**, resulted in delayed mobilization for ISTR system construction. Weather delays during ISTR system construction and operation included heat advisories and hurricanes, however the construction schedule was not significantly affected and the ISTR system never needed to be shutdown after commissioning. EA had to demobilize from the site for one month during site restoration activities while waiting for receipt of a contract modification to pave the former ABC Cleaners property. These delays did not affect EA's ability to execute the work under budget and within the period of performance allowed by the contract.

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4. PERFORMANCE STANDARDS AND CONSTRUCION QUALITY CONTROL

4.1 ISTR SYSTEM PEFORMANCE DATA

EA generated a Performance Monitoring Plan (PMP [EA 2024]) to establish system performance monitoring activities to aid in the achievement of performance measures discussed in **Section 4.5**. Data collected during system operation was continuously monitored to evaluate system performance and establish shutdown criteria. Performance data collected during ISTR system operation is detailed in the sections below.

4.1.1 Temperature

Temperature was monitored daily, which showed an increase from approximately 20 degrees Celsius (°C) prior to system startup to a peak average temperature of 108.6°C. The target treatment temperature threshold of 100°C was reached on 5 February 2024 and was maintained until ISTR system shutdown on 23 April 2024. EA/TT continued monitoring temperatures daily from ISTR system shutdown to 15 May 2024. Post-shutdown data showed steady decrease from peak operating temperatures, with average temperatures in excess of 100°C recorded until 30 April 2024, followed by continued decrease to the final recorded temperature of 89.3°C on 15 May 2024.Temperatures will continue to decline to pre-treatment conditions. **Figure 4-1** shows average TTZ temperatures over the duration of heating, and **Table 4-1** includes the daily site-wide average and individual treatment zone temperature readings.

4.1.2 Groundwater

Water samples were collected from the ISTR system LGAC influent beginning on 26 December 2023, 25 days after the start of heating. Influent samples were collected at least once every two weeks thereafter. PCE, TCE, and *cis*-1,2-DCE data collected from the LGAC influent between 26 December 2023 and 30 April 2024 are presented in **Figure 4-2**. LGAC influent data are provided in **Table 4-2a**. Laboratory analytical reports are included in **Appendix E**.

The initial LGAC system influent sample collected on 26 December 2024 reported elevated concentrations of PCE (2,300 µg/liter [L]), TCE (130 µg/L) and *cis*-1.2-DCE (140 µg/L). Concentrations of TCE and *cis*-1,2-DCE decreased steadily and PCE remained stable for the month of January, until 5 February 2024, when PCE concentrations jumped an order of magnitude to 65,000 µg/L and TCE and *cis*-1,2-DCE were reported non-detect. Dilution was required for this sample due to the high concentration of PCE, so detection limits were notably higher for TCE and *cis*-1.2-DCE (40 times higher) than the limits previously reported in December 2023 – January 2024. The influent sample collected on 19 February 2024 reported PCE, TCE, and *cis*-1,2-DCE concentrations consistent with preliminary data (1,000 µg/L, 26 µg/L, and 40 µg/L, respectively). PCE concentrations decreased again on 27 February 2024 (550 µg/L), then reported concentrations fluctuating between 160 µg/L and 280 µg/L between 4 March 2024 and 30 April 2024. TCE concentrations continued to decrease after 19 February 2024 and were reported at 4.7 µg/L during the final sampling event on 30 April 2024. *cis*-1.2-DCE remained stable from 19 February 2024 to system shutdown, with the final sample reported at 18 µg/L on 30 April 2024.

On 11 March 2024, groundwater samples were collected from MPE wells MPE-01 through MPE-04, each of which was installed on an angle under the Major's building from the eastern edge of the wellfield. Concentrations of PCE, TCE, and *cis*-1,2-DCE reported in MP-02 through MP-04 were consistent with LGAC influent samples, but PCE was reported at 4,300 µg/L in MPE-01. Samples were collected from a larger set of MPE wells on 21 March 2024, including MPE-01 through MPE-06, MPE-08 through MPE-13, and MPE-15 and MPE-16. High concentrations of PCE were again reported in MPE-01 (6,200 µg/L), as well as MPE-09 (4,300 µg/L). PCE concentrations in the other 12 MPE wells were consistent with 18 March 2024 LGAC influent concentrations (260 µg/L), ranging from 26 µg/L in MPE-13 to 670 µg/L in MPE-11. Concentrations of TCE and *cis*-1,2-DCE were consistent with LGAC influent data for all MPE wells. MPE-01 was sampled again on 22 April 2024, one day before system shutdown, and reported a PCE concentration of 5,500 µg/L. All liquid VOC data collected from MPE wells during system operation are provided in **Table 4-2b**.

4.1.3 Soil Vapor

Soil vapor samples were collected from the ISTR system VGAC influent beginning on 13 December 2023, 12 days after the start of heating, and from the HSVE manifold beginning on 11 January 2024, 41 days after the start of heating. Samples were collected at least once every two weeks from both sampling points. VGAC influent data are presented in **Table 4-3a**, and HSVE data are shown in **Table 4-3b**. Both data sets are summarized on **Figure 4-3**.

Initial VGAC influent concentrations were reported at 3,300 µg/cubic meter (m^3) for *cis*-1,2-DCE, 3,400 µg/m^3 for TCE, and 96,000 µg/m^3 for PCE. Steady *cis*-1,2-DCE and TCE concentrations were noted with increasing PCE concentrations between the initial sampling results and 22 January 2024 sampling results, which reported concentrations of 2,100 µg/m^3 for *cis*-1,2-DCE, 5,400 µg/m^3 for TCE, and 700,000 µg/m^3 for PCE. PCE concentrations then jumped an order of magnitude to 5,300,000 µg/m^3 on 29 January 2024, then decreased to 2,200,000 µg/m^3 by the 5 February 2024 sampling event. Substantial change in *cis*-1,2-DCE and TCE concentrations was not observed during this time interval. By 19 February 2024, the PCE concentration had decreased to 300,000 µg/m^3, decreased to 76,000 µg/m^3 by 11 March 2024, and then decreased to 1,000 µg/m^3, as reported on 8 April 2024. Rebound was observed in PCE concentrations in the 15 April 2024 and 22 April 2024 sampling events, where concentrations of 33,000 µg/m^3 and 46,000 µg/m^3 were reported, respectively. *cis*-1,2-DCE and TCE concentrations were most recently reported at 180 µg/m^3 and 560 µg/m^3 on 22 April 2024.

Initial HSVE concentrations were reported at 0.22 µg/m^3 for *cis*-1,2-DCE, 1.7 µg/m^3 for TCE, and 46 µg/m^3 for PCE on 11 January 2024. PCE concentrations increased to 49,000 µg/m^3 by 22 January 2024 and then peaked at 220,000 µg/m^3 as reported on 5 February 2024. PCE concentrations reduced to 53,000 µg/m^3 by 19 February 2024 followed by downward trending concentrations, with the 22 April 2024 sample reporting 8,600 µg/m^3.

4.1.4 Mass Removal

Mass removal during ISTR system operation was calculated using periodic influent sampling data from the VGAC and LGAC systems. Vapor-phase mass removal was estimated using PID

concentrations collected 5 days per week during system operation, which were periodically corrected with laboratory data. Liquid-phase mass removal was calculated using the concentrations reported in daily influent samples and the total daily liquid flow rate.

The mass removal rate (lbs per day) increased slowly as the TTZ was brought up to target temperatures, with substantial increases observed when the TTZ reached 70°C and again at 95°C. A peak mass removal rate of 165.38 lbs/day was recorded on 29 January 2024, when the average TTZ was 95.4°C. The mass removal rate dropped to 57.08 lbs/day by 5 February 2024, when the average TTZ temperature reached 100°C, followed by steady decrease to 5.94 lbs/day on 19 February 2024. The mass removal rate continued to slowly decrease to 1.82 lbs/day on 5 March 2024. Between 5 March and 22 April 2024, mass removal rates remained asymptotic, fluctuating slightly between approximately 0 and 6 lbs/day. The mass removal rate began to increase again on 23 April 2024 and peaked again at 20.79 lbs/day on 25 April 2024. By 2 May 2024, the mass removal rate had fallen to 0.97 lbs/day and remained asymptotic until the liquid and vapor recovery system was shut down.

The spike in mass removal between 23 April and 1 May 2024 can be attributed to the two additional SIWs installed in SB-04 and SB-06 during post-remediation confirmation soil sampling, discussed further in **Section 4.2**. The total mass removed during system operations was 2,437 lbs, with 2,320 lbs removed in the vapor-phase and 117 lbs removed in the liquid phase. Mass removal data relative to TTZ temperature are provided in **Table 4-4** and presented on **Figure 4-4**. Additional mass removal discussion and calculations are included in the TT's In Situ Thermal Treatment Final Report, included as **Appendix B**.

4.1.5 Adjacent Commercial Building Indoor Air

Indoor air samples were collected from Major's every two weeks during ISTR system operation using multi-bed sorbent tubes and were analyzed for VOCs using EPA Method TO-17. PCE was detected at 0.57 µg/m^3 in the initial indoor air sample collected at the beginning of ISTR system operation on 6 December 2023. Concentrations remained stable through the 17 January 2024 sample, followed by a spike in the 8 February 2024 sample, which reported a PCE concentration of 19 µg/m^3. The sample collected on 22 February 2024 reported a PCE concentration of 7.2 µg/m^3, and the 7 March 2024 sample reported a PCE concentration of 2 µg/m^3, before PCE concentrations fell below 1 µg/m^3 again. The spike in PCE detections was attributed to the new carpet that EA installed at Major's prior to the 8 February sample, not intrusion of fugitive vapors from Zone 6 of the TTZ. Indoor air sampling data from Major's are provided in **Table 4-5**.

4.1.6 System Discharge

Water collected via extraction or as vapor condensate was treated first through an oil/water separator, then a particulate filter, followed by an LGAC train. Any NAPL or particulate matter that was collected during treatment was containerized and disposed of per approved waste management protocols. Treated water was discharged to the city of Jacksonville sewer system.

Vapor extracted from shallow onsite HSVE wells, MPE wells, and shallow offsite HSVE wells was treated with a VGAC train, then was vented to the atmosphere.

Liquid treatment system midfluent and effluent and vapor system effluent samples were collected periodically to monitor GAC media for change-out and verify system discharge met city of Jacksonville sewer discharge requirements. Liquid and vapor treatment system midfluent and effluent data are provided in **Table 4-6a** and **Table 4-6b**.

4.1.7 Utility Usage

Utility usage totals are provided in **Table 4-7**.

4.2 POST-REMEDIATION CONFIRMATION SOIL SAMPLING

Six vertical soil borings were installed via sonic drilling between 2 April and 4 April 2024 targeting total depths between 20 and 50 feet bgs, depending on the targeted treatment zone. Soil samples were collected from every 5 feet from ground surface to the bottom of the borehole for Method 8260D Toxicity Characteristic Leaching Procedure volatile organic analytes using EnCore samplers and percent moisture. Boring IDs, depths, sample intervals, and treatment zones are identified in **Table 4-8**. Soil boring locations are identified on **Figure 4-5**.

The ISTR system was de-energized and partially dismantled as required prior to mobilization of the drill rig to each boring location. SB-01 through SB-04 and SB-06 were advanced to target depth. Sampling in SB-05 was terminated at 25 feet due to heat and pressure buildup in the deeper material, which compromised the soil sample in the core barrel.

After the 20-feet of sample core was pulled from SB-06, Cascade advanced the boring to 55 feet bgs and installed a SIW to optimize treatment in the area, due to persistent groundwater concentrations of VOCs. The SB-04 borehole was also fitted with a SIW. SB-01, SB-02, SB-03, and SB-05 were all backfilled to grade with cement-bentonite grout.

VOC detections reported in post-treatment soil borings are reported by depth in **Table 4-9** and summarized on **Figure 4-5**. Of the 39 intervals sampled, only 3 reported concentrations of *cis*-1,2-DCE, TCE, and/or PCE. PCE (33 µg/kg), TCE (15 µg/kg), and *cis*-1,2-DCE (7.8 µg/kg) were detected in SB-06 at 5 feet bgs. Samples collected from 10 feet bgs, the bottom of the boring at 20 feet bgs, were all non-detect for VOCs; however, the laboratory did miss the 48-hour preparation hold time for all SB-06 samples. SB-04 reported concentrations of PCE at 5 feet bgs (280 µg/kg) and 40 feet bgs (27 µg/kg). All other intervals between 10 feet bgs and 50 feet bgs were non-detect. There were no PCE, TCE, or *cis*-1,2-DCE detections in SB-01, SB-02, SB-03, or SB-05.

4.3 POST-IN SITU THERMAL REMEDIATION SHALLOW SOIL SAMPLING

Surface soil samples were collected on 10 July 2024, in the area where staining was observed during ISTR system decommissioning, and on 18 July 2024, from 10 locations within the TTZ. Samples were collected after demolition of the existing concrete slab to verify that VOC mass had not collected under the soil vapor cover during ISTR system operation. Sampling results are presented in **Table 4-10**, and sampling locations and detections are summarized on **Figure 4-6.**

The surface soil sample collected on 10 July 2024 reported detections of *cis*-1,2-DCE (6.5 µg/kg) and TCE (5.8 µg/kg) below RG concentrations and a RG exceedance of PCE (16 µg/kg). A series of volatile petroleum hydrocarbons, including m/p-xylene (6.5 µg/kg), o-xylene (3.6 µg/kg), total xylene (10 µg/kg), total benzene, toluene, ethylbenzene, and xylene (10 µg/kg), naphthalene (31 µg/kg), methylcyclohexane (5.5 µg/kg), 1,3,5-trimethylbenzene (14 µg/kg), 1,2,4-trimethylbenzene (46 µg/kg), and 4-isopropyltoluene (11 µg/kg) were detected as well.

Shallow soil samples were collected from 1 foot and 2 feet bgs at 10 locations within the TTZ. PCE was the only COC that was detected in concentrations that exceeded the site's RGs. PCE was detected at 3,500 µg/kg at 2 feet bgs in sample point 5, 10 µg/kg at 2 feet bgs in sample point 6, and 8.3 µg/kg at 1-foot bgs in sample point 7. The 1-foot bgs sample at sample point 8 (17 µg/kg), and the 1-foot bgs (20 µg/kg) and 2 feet bgs (19 µg/kg) at sample point 10 reported *cis*-1,2-DCE at concentrations below the RG for the site. There were no TCE or VC detections reported.

4.4 DATA QUALITY

4.4.1 Quality Assurance/Quality Control Procedures

Quality assurance and quality control procedures were executed in accordance with protocols identified in the UFP – QAPP (EA 2022). Quality control procedures included collection of 1 field duplicate per 10 parent samples and 1 matrix spike/matrix spike duplicate per 20 parent samples for soil and groundwater sent for VOC analysis. Field duplicates were collected with VOC air samples at a rate of 1 per 10 parent samples.

4.4.2 Data Quality Objectives

Data quality objectives were developed for the Site and presented in Worksheet #11 of the UFP – QAPP(EA 2022). The stated goals of the study were to address data gaps in the PRI, eliminate the source material during ISTR, and verify that project RGs have been achieved through post-remediation soil confirmation sampling. Data performance criteria were identified.

There were no major deficiencies noted or rejections of data for laboratory samples collected during the PRI or post-treatment sampling. A "J" or "UJ" qualifier was added to some data for reasons including calibrations being outside of the allowable percent difference and relative response factor criteria. Several soil samples collected during the April 2024 post-remediation confirmation soil sampling (**Section 4.2**) were analyzed out of hold time (samples are identified with "H" qualifier in **Table 4-9**). The VOC concentrations reported in these samples were consistent with those reported in samples analyzed within the hold time, and therefore are considered valid with respect to TTZ post-remediation characterization and system shutdown decision making. Data validation reports are included in **Appendix F**. Most monitoring data collected during ISTR operation were not validated, as its purpose was to track system performance and inform real-time decisions on system operations. The only process monitoring data to be validated were a group of water samples collected from MPEs on 21 March 2024, which presented the current state of groundwater concentrations across the TTZ during peak heating.

4.5 REMEDIAL ACTION PERFORMANCE EVALUATION

4.5.1 Performance Evaluation Criteria

The ISTR system design was based on an estimated 2,700 lbs of contaminant mass. A total of 2,437 lbs of contaminant mass was removed during ISTR system operation prior to mass removal reaching diminishing returns.

In addition to the achievement of RGs identified in **Table 1**, the following performance measures for ISTR were identified in the Final 100% Remedial Design (Black & Veatch 2020a) and the PMP (EA 2024). In order to discontinue operation of the treatment system, two of three of the following lines of evidence needed to be achieved.

- Treatment has reached an asymptotic rate of COC recovery (including residual NAPL),
- Additional input of subsurface energy does not increase the observed rate of COC mass removal (including residual NAPL) and reduced COC concentrations in soil; or
- Continued operation of the selected remedy offers no demonstrable benefit for the reduction of residual NAPL, COC mass, or potential for COC migration to groundwater, and COC concentrations in soil.

4.5.2 System Performance vs Performance Measures

As discussed in **Section 4.1.4**, the ISTR system was shut down after the COC mass removal trend reached asymptotic conditions, and the project team determined that there would be no benefit of additional input of subsurface energy or continued operation on the reduction of residual NAPL, COC mass, potential for COC migration to groundwater, or COC concentrations in soil.

4.5.3 System Performance vs Remedial Goals

Post-remediation soil borings discussed in **Section 4.2** reported only three detections of PCE over RGs in 39 sampled intervals in April 2024 prior to system shutdown. Two of the detections were shallow (5 feet bgs) and the other was at 40 feet bgs. Both borings that reported detections were retrofitted with SIWs to optimize heating and mass removal in those areas of the TTZ for the last month of system operation. Mass removal rates increased dramatically for approximately one week after commissioning of the new SIWs in SB-04 and SB-06 from asymptotic at approximately 0-5 lbs/day to a peak of over 20 lbs/day, suggesting that remaining contaminant mass that contributed to PCE detections in soil borings was being mobilized. After several days of increased mass removal rates, the rate returned to asymptotic conditions at approximately 1 lb/day.

Shallow soil samples discussed in **Section 4.3** reported four detections of PCE over RGs in 21 sample intervals in July 2024. Only one sample reported a concentration of PCE substantially in excess of RGs (3,500 µg/kg). This sample was collected within the footprint of an old concrete building footer that likely became a pocket for fugitive vapors to collect under the vapor cover.

There were no legs of the SVE system installed within the footprint of the footer, so the footer structure likely prevented vapors trapped in this area from being drawn by the SVE system.

Soil boring data and mass removal trends suggest that ISTR system operation met RGs. April 2024 soil boring and mass removal data suggest that PCE contaminant mass was destroyed by ISTR at deeper intervals of the TTZ. The April 2024 borings and July 2024 borings identified several areas with elevated PCE concentrations in surface and near-surface soils, likely due to vapors being trapped by the vapor cover. After discussion with EPA, these soils were left in place. There were no detections of TCE, DCE, or VC that exceeded RGs in April 2024 soil borings or July 2024 shallow soil samples. RGs were not identified for groundwater. Although post confirmation soil sampling conducted before surface and subsurface conditions returned to pre-treatment conditions indicate there may be PCE concentrations slightly above the cleanup goals, the ISTR system met the criteria for shutdown. As specified in the 2018 IROD, any residual soil contamination will be addressed in a final ROD.

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5. FINAL INSPECTION AND CERTIFICATIONS

5.1 IN SITU THERMAL REMEDIATION SYSTEM DECOMMISSIONING

The ISTR heaters were shut off on 23 April 2024, following review of confirmation soil sampling in the TTZ. The onsite SVE and MPE systems continued to run until 7 May 2024, and the SVE system under Major's operated until 12 June 2024.

System dismantling began on 6 May 2024. Heat elements were removed from heater wells, and the above-grade electric cables were wound onto spools and shipped offsite for reuse. Above-grade conveyance piping was dismantled and sent offsite for recycling.

Cascade abandoned all ISTR system wells between 18 and 20 June 2024, after all liners and electrical components had been removed from the wells. Prior to abandonment, the stickup casings were cut flush with the vapor cover surface. Each well was then filled with cement-bentonite grout using a tremie pipe to approximately 3 feet below the vapor cover surface. Abandonment records are included in **Appendix G**.

Removal of the concrete vapor cover began on 11 June 2024. An excavator with a breaker attachment was used to break up the upper and lower layers of concrete. The middle foam board layer was carefully exposed and was transferred to a rolloff container for offsite recycling. Concrete debris was stockpiled onsite, then was hauled offsite in dump trucks for recycling. Well casings were cut below ground surface after removal of the lower layer of concrete. Vapor cover removal was completed on 17 July 2024. Remnants of the existing concrete slab were broken up and mixed with imported crusher run gravel to regrade the site in preparation for asphalt installation.

The steam injection system was disconnected and hauled offsite for reuse. The vapor and liquid treatment system was disconnected and shipped offsite on 25 June 2024. TT's tool trailers were loaded onto a trailer and shipped offsite on 19 July 2024. The two 21,000-gallon frac tanks were demobilized on 22 July 2024.

5.2 SITE RESTORATION

Site restoration activities included site work on the former ABC Cleaners property (2127 Lejeune Boulevard) and the adjacent Major's property (2129 Lejeune Boulevard).

5.2.1 Site Property

EA and EPA met with the property owners of the former ABC Cleaners property, on 1 May 2024 to discuss the final restoration plan for the site. The property owners, EA, and EPA agreed to installation of asphalt surface within the privacy fence (onsite area – 2127 Lejeune Boulevard), with gravel on the 342 Liberty Drive parcel.

Site restoration was completed between 30 September and 15 October 2024. The perimeter fence was removed and disposed of. The onsite area (2127 Lejeune Boulevard) and the portion of the parcel to the north (342 Liberty Drive) that was impacted during site operations were regraded and

resurfaced. Crusher run was placed, graded, and compacted on both parcels by Onslow Grading & Paving, Inc. (Onslow). Landscaped area at 342 Liberty Drive that was damaged due to equipment and material staging was regraded with topsoil and seeded.

The onsite area was paved by Onslow, tying into the Major's alleyway and parking lot asphalt and Lejeune Boulevard. The existing asphalt apron between Lejeune Boulevard and the Site was milled to allow for a smooth joint. Onslow fine-graded the gravel surface and then placed 2.5 inches of I19C asphalt. Final restoration photographs are included in **Appendix H**.

5.2.2 Major's Furniture & Appliance

Restoration of the Major's property included paving the back parking lot, installing new flooring inside of the showroom building, and retrofitting the subslab SVE system to remain in service if monitoring indicates there is an unacceptable exposure or suspected exposure inside Major's.

5.2.2.1 Paving

The front parking lot, alleyway, and rear parking lot of the Major's property were repaved and restriped between January and March 2024 by Onslow. Onslow overlayed 1.5 inches of S9.5B asphalt on the existing asphalt surface.

5.2.2.2 Flooring

To minimize the risk of fugitive vapors from Zone 6 infiltrating into Major's through cracks in the building slab, EA repaired and sealed the concrete floor and replaced the carpet. The floor and carpeting work was completed in Major's showroom in January 2024 by Watkins Floor Covering. The existing carpeting was torn up and disposed of as municipal waste. Cracks in the concrete slab were sealed with grout, and then a uniform laminate floor sealant was applied prior to installing new carpet.

5.2.2.3 Horizontal Vapor Extraction Well System Retrofit

The HVEW system under Major's was retrofitted to allow for continued operation as a low-energy sub-slab depressurization system. An 8-foot by 10-foot shed was delivered to the site on 7 August 2024 to house system components. The shed was placed on the eastern boundary of the former ABC Cleaners property, where the HVEW trench entered the site from the Major's property. Two manifolds were constructed in the shed, one tying the five steel HVEW wells together, and the other tying the five PVC HVEW wells together. Radon fans were mounted to the exhaust stack of each manifold on the outside of the HVEW shed to apply vacuum to the HVEWs. Chain-link fence was installed around the system shed on 14 October 2024.

5.3 METES AND BOUNDS SURVEY

A Metes and Bounds Survey was completed by Charles F. Riggs & Associates on 16 October 2024, after final site restoration. The final Metes and Bounds Survey is included as **Appendix I**.

5.4 FINAL SITE INSPECTION

EA and EPA performed a final site inspection on the week of 13 November 2024. No punch list items were identified during the inspection and EPA gave final approval of site restoration.

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6. OPERATION AND MAINTENANCE ACTIVITIES

No post-remedy operation and maintenance (O&M) is anticipated for the ISTR coupled with SVE, as the selected remedy will be discontinued upon the achievement of the desired performance measures and/or Remedial Action Objectives/Remedial Goals.

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7. CONTACT INFORMATION

Contact information is found in the following table.

Company/Organization	Contact Person	Title	Email Address
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EPA	Brian Farrier	Task Order Contracting Officer's Representative	Farrier.Brian@epa.gov
NCDEQ	Beth Hartzell	Environmental Engineer	beth.hartzell@deq.nc.gov
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EA	Lou Barinka	Program Manager	lbarinka@eaest.com
TT	Devon Phelan	Project Manager	dphelan@cascade-env.com
TT	Chris Jaggie	Project Manager	cjaggie@cascade-env.com
TetraTech	John Snyder	Project Manager	John.Snyder@tetratech.com

Notes:
EA = EA Engineering, Science, and Technology, Inc., PBC
EPA = U.S. Environmental Protection Agency
NCDEQ = North Carolina Department of Environmental Quality
NA = Not available
TT = TerraTherm

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Tables

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Table 1-1. Remedial Goals for OU3

COC	Remedial Goal (micrograms per kilogram)[1]
PCE	6.3
TCE	21.0
DCE	410
VC	0.21

Note:
[1]Remedial goals are identified for soil concentrations, as presented in the 2018 IROD.
COC = Contaminant of concern
DCE = Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene
VC = Vinyl chloride

Table 1-2. TTZ Definition

Zone	Area (cubic feet)	Top of TTZ (feet bgs)	Bottom of TTZ (feet bgs)	TTZ Thickness (feet)	Treatment Volume (CY)
1	2,160	0	20	20	1,600
2	1,581	0	30	30	1,757
3	1,589	0	40	40	2,354
4	1,104	0	50	50	2,044
5	58	0	66	66	142
6	2,200	10	50	40	3,259
Total	**8,692**				**11,156**

Notes:
bgs = Below ground surface
CY = Cubic yard(s)
TTZ = Target treatment zone

Table 1-3. Boring Summary of TCH Heaters and TCH Heaters with Extractions

Zone ID	Top of TTZ [feet bgs]	Bottom of TTZ [feet bgs]	Vertical TCH Heaters	Vertical TCH Heaters with VEW	Angled TCH Heaters with VEW	Vertical TCH Heaters with SIW	Angled TCH Heaters with SIW
Zone 1	0	20	11	5	2	-	-
Zone 2	0	30	9	3	-	-	-
Zone 3	0	40	3	3	-	-	-
Zone 4	0	50	4	2	-	8	-
Zone 5	0	66	2	-	-	1	-
Zone 6	10	50	-	-	27	-	3
Total			**29**	**13**	**29**	**9**	**3**

Notes:
ID = Identification
SIW = Steam injection well
TCH = Thermal Conduction Heating
TTZ = Target treatment zone
VEW = Vapor extraction well

Table 1-4. Boring Summary of MPEs and Monitoring Wells

Zone ID	Top of TTZ [feet bgs]	Bottom of TTZ [feet bgs]	Vertical MPE Wells	Angled MPE Wells	Vertical TPMPs	Angled TPMPs	HVEWs
Zone 1	0	20	3	-	2	-	-
Zone 2	0	30	3	-	1	-	-
Zone 3	0	40	-	-	1	-	-
Zone 4	0	50	5	-	1	-	-
Zone 5	0	66	1	-	1	-	-
Zone 6	10	50	-	4	-	2	4
Total			**12**	**4**	**6**	**2**	**4**

Notes:
HVEW = Horizontal vapor extraction well
ID = Identification
TPMP = Temperature and pressure monitoring point
TTZ = Target treatment zone

Table 2-1. Shallow Offsite HVEW Specifications

Well ID	Screen/ Well Depth (feet below floor)	Well Material	Entry Casing Length (feet)	Screen Length (feet)	Total Well Length (feet)	Distance Between Wells (feet)	Completion
Wells 1,2,3,4, 5	7	2-inch stainless steel (1)	35	70	105	11.5	Single-Ended
Well 6	7	2-inch CPVC	45	90	135	20.0	Single-Ended
Wells 7, 8, 9, 10	7	2-inch PVC	45	90	135	20.0	Single-Ended

Notes:
CPVC = Chlorinated polyvinyl chloride
Ft = Feet/foot
HSVE = Horizontal soil vapor extraction
ID = Identification
PVC = Polyvinyl chloride

Table 2-2. Shallow Onsite HSVE Well Specifications

Well ID	Screen/ Well Depth (feet bgs)	Screen Length (feet)
AEW-1	2	55
HSVE-1	2	55
HSVE-2	2	5
HSVE-3	2	5
HSVE-4	2	5
HSVE-5	2	10

Notes:
bgs = Below ground surface
HSVE = Horizontal soil vapor extraction
ID = Identification

Table 2-3. Daily ISTR System Data Collection

Data Type	Instrument	Location
Power Usage	Totalizer	Power distribution system
Liquid Flow Rate/Totals	Flow meter/totalizer	LGAC influent
Vapor Flow Totals	Anemometer	Heat exchanger influent
Temperature	Thermometer	TMPs
		Heat exchanger influent
Pressure	Pressure gauge	TMPs
		VEWs, MPEs, HVEWs
		Steam injection wells
		Blower influent/effluent
Vapor Volatile Organic Compound Concentrations	PID	HVEW, MPE wellheads and/or headers
		Non-thermal shallow SVE combined manifold
		Influent to VGAC vessels

Notes:
HVEW = Horizontal vapor extraction well
LGAC = Liquid-phase granular activated carbon
MPE = Multi-phase extraction
PID = Photoionization detector
SVE = Soil vapor extraction
TMP = Temperature monitoring point
VEW = Vapor extraction well
VGAC = Vapor-phase granular activated carbon

Table 2-4. ISTR Performance Monitoring Grab Sampling Schedule

Data Type	Collection Method	Frequency	Location
Vapor mass removal	Summa Canister – EPA Method TO-15	Once every 2 weeks	Vapor treatment system inlet
Vapor mass removal (SVE lines)	Summa Canister – EPA Method TO-15	Once every 2 weeks	SVE influent to the vapor treatment system, HSVE wells, MPE well.
Liquid/condensate mass removal	Grab – EPA 8260C	Once every 2 weeks	LGAC influent and midpoint between LGAC vessels
Mass removed as NAPL	Grab – EPA 8260C	Once every 2 weeks	LNAPL/DNAPL storage tanks
Vapor concentrations	Summa Canister – EPA Method TO-15	Three times. Beginning, midpoint, and end of thermal operations	Extraction well heads and vapor headers

Notes:
DNAPL = Dense non-aqueous phase liquid
EPA = U.S. Environmental Protection Agency
HSVE = Horizontal soil vapor extraction
LGAC = Liquid granular activated carbon
LNAPL = Light non-aqueous phase liquid
NAPL = Non-aqueous phase liquid
SVE = Soil vapor extraction

Table 3-1. Project Milestone Summary

Milestone	Date
Interim Action ROD	09/2018
Time-Critical Removal Action	01/2020
Final 100% Remedial Design	04/2020
Task Order Award	09/22/2022
Final Planning Documents	12/22/2022
PRI Field Work	01/24/2023
ISTR System Construction Mobilization	05/15/2023
Final PRI Memorandum	06/20/2024
Final RAWP (with design refinements)	09/18/2023
ISTR System Construction Completion	11/26/2023
ISTR System Commissioning	11/30/2023
Post-Remediation Confirmation Soil Sampling	04/04/2024
ISTR System Shutdown	05/05/2024
Post-Remediation Shallow Soil Sampling	07/18/2024
Site Restoration	10/15/2024
Metes and Bounds Survey	10/16/2024
Final Site Inspection	11/13/2024

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Table 4-1. Average Site TTZ Temperature

Date	Average Site TTZ Temperature [°C]	Average Alley TTZ Temperature [°C]	Average Zone 1 TTZ Temperature [°C]	Average Zone 2 TTZ Temperature [°C]	Average Zone 3 TTZ Temperature [°C]	Average Zone 4 TTZ Temperature [°C]	Average Zone 5 TTZ Temperature [°C]	Average Zone 6 TTZ Temperature [°C]
12/4/2023	22.2	22.4	22.5	21.9	21.8	21.9	22.4	22.3
12/5/2023	22.5	23.5	22.6	22.4	21.9	22	22.5	23
12/6/2023	23.0	24.8	22.7	22.8	21.9	22.3	22.5	23.8
12/7/2023	23.4	25.8	22.8	23.3	22.3	22.5	22.8	24.3
12/8/2023	24.1	26.8	23.2	24.3	22.8	23.0	23.0	25.5
12/9/2023	25.1	28.4	23.8	25.5	23.7	23.8	23.7	26.9
12/10/2023	26.1	30.0	24.7	26.7	24.6	24.6	24.7	27.8
12/11/2023	27.0	31.9	25.3	28.0	25.2	25.5	24.9	29.1
12/12/2023	28.2	36.0	26.1	29.5	26.1	26.4	25.3	30.5
12/13/2023	29.3	37.4	27.0	31.0	27.2	27.5	26.1	31.7
12/14/2023	30.5	38.7	28.0	32.6	28.4	28.7	27.2	32.9
12/15/2023	31.6	40.5	28.8	34.1	29.7	30.0	28.0	33.9
12/16/2023	32.8	42.5	29.7	35.8	31.1	31.5	29.1	35.2
12/17/2023	34.3	44.3	31.0	37.6	32.7	33.1	31.0	36.1
12/18/2023	36.0	48.7	32.4	39.2	34.1	34.6	32.1	37.9
12/19/2023	37.5	52.1	33.7	41.0	35.6	36.1	33.7	39.1
12/20/2023	38.9	54.1	35.0	42.7	37.3	37.4	35.0	40.4
12/21/2023	40.5	57.0	36.4	44.4	38.9	38.9	36.6	41.8
12/22/2023	42.0	60.3	37.8	46.2	40.5	40.4	37.8	43.0
12/23/2023	43.4	62.4	39.4	48.0	42.2	41.9	39.2	44.3
12/24/2023	44.9	64.1	40.9	49.7	43.8	43.5	40.6	45.7
12/25/2023	46.5	65.8	42.5	51.5	45.5	45.1	42.0	47.0
12/26/2023	48.1	67.5	44.2	53.5	47.3	46.7	43.6	48.5
12/27/2023	49.6	69.0	45.7	55.3	48.8	48.3	45.4	49.8
12/28/2023	51.3	70.5	47.2	57.1	50.3	49.7	47.3	51.5
12/29/2023	52.6	71.1	48.7	59.2	51.9	51.1	47.9	52.9
12/30/2023	54.0	71.8	50.2	61.2	53.5	52.6	49.3	54.4
12/31/2023	55.5	73.3	51.6	63.0	55.0	54.1	50.6	55.9
1/1/2024	57.0	74.6	53.1	64.9	56.7	55.7	51.4	57.5
1/2/2024	58.5	75.7	54.6	66.8	58.3	57.2	52.3	59.1
1/3/2024	60.1	77.5	56.1	68.6	59.8	58.8	53.4	61.0
1/4/2024	61.7	79.0	57.5	70.3	61.2	60.4	54.8	62.8
1/5/2024	63.4	80.5	58.8	72.2	62.8	62.6	56.1	64.8
1/6/2024	65.1	82.3	60.0	74.1	64.4	65.0	57.0	66.7
1/7/2024	66.6	83.6	61.1	76.0	65.9	67.3	57.9	68.4
1/8/2024	68.2	84.9	62.3	78.0	67.4	69.0	59.4	70.0
1/9/2024	69.6	86.7	63.3	79.9	69.1	70.7	60.1	71.7
1/10/2024	70.7	86.8	64.3	81.8	70.7	72.1	60.9	72.6
1/11/2024	72.2	87.8	65.5	83.7	72.4	73.5	62.1	74.0
1/12/2024	73.6	89.0	66.5	85.5	74.3	74.7	63.4	75.6
1/13/2024	74.8	90.0	67.4	87.4	76.2	76.0	64.2	77.0
1/14/2024	76.2	90.8	68.4	89.4	78.1	77.2	65.3	78.2
1/15/2024	77.6	92.2	69.5	91.4	80.2	78.4	66.4	79.7
1/16/2024	79.0	93.1	70.8	93.7	82.8	79.6	67.4	81.0
1/17/2024	80.3	93.9	71.8	95.2	85.0	80.7	68.3	82.2
1/18/2024	81.5	95.3	72.5	96.9	87.0	81.8	69.2	83.6
1/19/2024	82.7	96.3	73.6	98.3	88.8	82.7	70.0	84.9
1/20/2024	84.2	96.8	74.9	99.1	93.1	83.9	71.4	86.0
1/21/2024	85.7	97.7	76.0	100.0	96.2	85.3	72.6	87.3
1/22/2024	87.3	98.3	77.1	101.0	98.9	87.7	74.3	88.7
1/23/2024	88.7	99.1	78.3	101.8	100.6	89.6	75.7	90.0
1/24/2024	90.0	99.9	79.5	102.5	102.1	91.2	77.1	91.3
1/25/2024	91.1	100.5	80.8	102.6	103.9	92.5	78.5	92.4
1/26/2024	92.2	100.8	82.1	102.7	105.3	93.8	79.7	93.2
1/27/2024	93.3	101.1	83.9	103.1	106.5	95.0	81.1	94.4
1/28/2024	94.4	101.2	86.3	103.2	107.3	95.9	82.3	95.5
1/29/2024	95.4	100.8	88.7	103.0	108.8	96.7	83.5	96.4
1/30/2024	96.2	101.0	90.1	103.3	109.9	97.3	84.3	97.0
1/31/2024	96.9	101.3	90.7	103.4	110.8	98.1	85.4	97.8
2/1/2024	97.5	101.9	91.7	103.7	110.3	98.5	86.7	98.4
2/2/2024	98.0	101.9	92.1	103.9	108.6	99.2	88.3	99.2
2/3/2024	98.7	101.7	92.6	103.6	108.9	99.8	90.5	99.7
2/4/2024	99.4	101.6	93.3	103.3	109.3	100.4	92.1	100.4
2/5/2024	100.0	101.7	94.2	103.3	109.3	100.8	93.2	101.1
2/6/2024	100.5	101.6	94.8	103.2	109.5	101.2	94.2	101.6
2/7/2024	101.0	101.8	95.2	103.3	109.7	101.6	95.2	102.1
2/8/2024	101.4	102.0	95.6	103.6	109.8	102.0	96.1	102.6
2/9/2024	101.9	102.0	96.1	103.8	110.0	102.5	97.1	103.1
2/10/2024	102.6	102.8	96.9	103.6	109.7	103.0	98.6	103.9
2/11/2024	103.3	102.7	98.2	103.4	109.7	103.3	100.5	104.3
2/12/2024	103.7	101.9	98.6	103.2	109.7	103.3	102.6	104.4
2/13/2024	104.1	102.3	98.7	102.9	109.5	103.4	104.6	104.8
2/14/2024	104.7	102.4	98.9	103.4	109.8	103.7	106.7	104.9
2/15/2024	105.2	102.6	99.1	103.8	109.9	103.9	107.9	105.4
2/16/2024	105.2	102.5	99.3	103.6	109.8	104.1	106.8	106.1
2/17/2024	105.4	102.1	99.5	103.1	109.8	104.1	107.4	106.5
2/18/2024	105.8	101.9	99.6	103.3	109.9	104.2	108.7	106.8
2/19/2024	106.3	102.1	99.7	103.5	109.9	104.4	110.3	107.2
2/20/2024	106.5	102.3	99.9	103.7	109.9	104.5	110.8	107.5
2/21/2024	106.6	102.4	100.1	103.9	110.2	104.6	111.4	107.1
2/22/2024	106.4	102.4	100.2	103.3	110.1	104.4	111.7	106.6
2/23/2024	106.0	102.0	100.1	102.8	109.3	104.2	111.7	106.0
2/24/2024	106.0	102.2	100.1	102.6	109.5	104.3	111.8	105.8
2/25/2024	106.1	102.3	100.3	103.0	109.7	104.5	112.2	105.5
2/26/2024	106.3	102.7	100.4	103.4	109.9	104.7	112.5	105.5
2/27/2024	106.4	102.7	100.5	103.4	109.9	104.9	112.6	105.7
2/28/2024	106.0	103.0	100.5	102.9	109.6	104.9	110.4	105.9
2/29/2024	105.5	102.4	100.3	102.7	109.4	104.9	109.6	105.1
3/1/2024	105.7	102.5	100.3	103.2	110.0	104.9	110.0	105.0
3/2/2024	106.3	102.5	100.4	103.4	110.3	105.5	112.4	105.2
3/3/2024	106.5	102.2	100.3	103.4	110.3	105.9	113.4	105.3
3/4/2024	106.8	102.0	100.5	103.6	110.5	106.1	114.1	105.5
3/5/2024	107.7	102.4	100.7	103.7	110.8	106.3	118.6	105.7
3/6/2024	107.9	101.8	100.7	103.5	110.8	106.4	121.0	105.7
3/7/2024	108.1	102.0	100.4	103.6	110.8	106.4	121.9	105.7
3/8/2024	107.8	102.2	100.4	104.1	110.9	106.6	119.2	105.7
3/9/2024	107.4	102.1	100.9	104.3	111.1	106.8	115.9	105.6
3/10/2024	106.8	102.1	100.8	103.6	110.3	106.5	113.4	105.5
3/11/2024	106.3	102.1	100.6	103.4	110.3	106.5	112.1	104.9
3/12/2024	106.3	103.3	100.2	103.6	109.9	106.3	111.5	105.3
3/13/2024	106.4	103.7	100.0	103.7	109.8	106.3	111.7	105.7
3/14/2024	107.0	103.8	99.7	104.9	109.4	107.4	113.1	106.1
3/15/2024	107.3	103.5	100.1	104.9	109.5	107.3	114.4	106.4
3/16/2024	106.6	102.5	100.2	104.3	108.7	106.7	112.3	106.1
3/17/2024	106.3	102.6	100.3	104.1	108.6	106.6	111.5	105.8
3/18/2024	106.0	101.9	100.2	104.0	108.6	106.7	111.0	105.2
3/19/2024	105.8	101.9	100.1	104.0	108.5	106.7	110.8	104.9
3/20/2024	105.7	101.9	100.1	104.2	108.5	106.7	110.4	104.6
3/21/2024	105.5	101.5	100.2	104.0	108.5	106.7	110.0	104.3
3/22/2024	105.4	101.5	100.4	104.1	108.4	106.6	109.6	104.3
3/23/2024	105.2	101.2	100.0	103.4	108.4	106.1	109.1	104.4
3/24/2024	105.0	100.9	100.3	103.5	108.2	106.2	108.3	104.2
3/25/2024	105.0	100.9	100.5	103.9	108.3	106.0	108.0	104.3
3/26/2024	105.0	100.8	100.5	104.2	108.5	106.0	107.6	104.3
3/27/2024	105.0	100.7	100.4	104.4	108.5	105.9	107.2	104.5
3/28/2024	104.9	100.3	100.3	104.1	108.6	105.5	106.4	105.1
3/29/2024	105.1	100.7	100.2	104.4	108.7	105.5	105.8	105.9
3/30/2024	105.5	101.4	100.2	105.1	109.0	105.4	105.7	106.7
3/31/2024	105.9	101.9	100.3	105.5	109.2	105.5	106.4	107.2
4/1/2024	105.8	101.4	100.4	105.6	108.9	105.3	107.1	106.7
4/2/2024	105.3	100.8	99.8	104.3	108.2	104.7	106.8	106.4
4/3/2024	104.5	100.3	99.0	102.6	107.5	104.0	106.7	105.2
4/4/2024	104.0	100.6	98.8	101.9	107.1	103.3	106.7	104.2
4/5/2024	103.8	99.8	98.0	101.5	106.6	102.7	108.3	103.7
4/6/2024	103.4	99.1	96.4	101.3	105.9	102.1	108.2	104.1
4/7/2024	103.5	98.9	95.5	101.0	105.9	101.9	108.1	105.0
4/8/2024	103.6	98.7	94.7	101.0	106.0	101.8	107.8	105.7
4/9/2024	103.8	98.9	95.7	102.5	106.6	102.1	105.5	106.4
4/10/2024	105.0	100.1	98.0	104.6	107.9	102.9	106.2	107.6
4/11/2024	102.2	88.3	100.7	104.7	105.8	102.1	106.0	101.0
4/12/2024	106.1	98.7	101.1	104.3	108.9	104.4	110.1	106.9
4/13/2024	107.2	101.7	101.3	106.2	109.2	104.6	111.2	108.6
4/14/2024	107.8	103.6	101.5	106.3	109.4	104.7	112.1	109.3
4/15/2024	108.5	105.6	101.7	106.4	109.5	104.8	113.4	110.3
4/16/2024	108.6	105.9	101.9	106.5	109.4	104.8	113.9	110.4
4/17/2024	107.5	102.5	102.1	105.3	108.8	104.5	112.7	108.6

Table 4-1. Average Site TTZ Temperature

Date	Average Site TTZ Temperature [°C]	Average Alley TTZ Temperature [°C]	Average Zone 1 TTZ Temperature [°C]	Average Zone 2 TTZ Temperature [°C]	Average Zone 3 TTZ Temperature [°C]	Average Zone 4 TTZ Temperature [°C]	Average Zone 5 TTZ Temperature [°C]	Average Zone 6 TTZ Temperature [°C]
4/18/2024	108.5	107.1	102.0	106.3	108.6	104.1	112.4	111.1
4/19/2024	107.8	105.6	102.0	106.0	108.2	103.8	111.6	110.2
4/20/2024	105.9	100.0	102.5	104.0	108.0	103.0	108.9	107.4
4/21/2024	106.2	100.4	102.2	104.7	108.0	103.2	109.1	107.9
4/22/2024	107.2	103.9	101.8	105.4	108.0	103.6	110.3	109.7
4/23/2024	107.3	104.5	101.7	105.4	107.9	103.7	110.0	110.1
4/24/2024	106.4	103.9	101.4	104.2	107.0	103.1	109.2	108.7
4/25/2024	105.4	103.4	100.5	102.8	106.1	102.3	108.3	107.6
4/26/2024	104.5	102.4	99.4	102.2	105.1	101.6	107.4	106.6
4/27/2024	103.9	101.3	98.5	102.0	104.4	101.1	106.5	106.2
4/28/2024	103.3	100.3	97.7	101.5	103.8	100.5	105.5	106.0
4/29/2024	102.7	98.9	96.9	101.2	103.4	100.0	104.5	105.7
4/30/2024	102.4	98.4	96.2	100.7	103.0	99.4	103.5	106.1
5/1/2024	98.0	92.0	97.4	96.9	102.0	98.5	95.0	104.2
5/2/2024	99.5	90.9	95.6	99.1	101.0	97.6	100.0	102.2
5/3/2024	96.6	87.0	97.6	96.2	102.7	98.6	98.3	95.9
5/4/2024	97.4	85.5	95.0	98.8	100.9	97.9	97.2	98.2
5/5/2024	93.6	85.7	94.8	93.1	99.2	98.1	98.3	90.4
5/6/2024	84.5	85.8	94.0	80.3	97.2	95.1	95.4	88.7
5/7/2024	89.4	85.8	90.6	86.7	95.3	95.1	93.5	87.0
5/8/2024	81.6	85.9	90.7	81.5	92.9	86.2	89.3	87.0
5/9/2024	88.8	85.8	95.8	100.8	90.4	88.6	86.1	87.0
5/10/2024	92.1	85.7	94.9	93.0	94.6	91.6	90.0	94.7
5/11/2024	96.7	87.0	89.8	96.7	98.9	94.7	93.8	102.4
5/12/2024	96.4	86.3	89.3	96.3	98.6	94.3	93.1	102.2
5/13/2024	96.1	85.3	88.7	96.0	98.2	94.0	92.5	101.9
5/14/2024	89.2	85.2	86.2	93.3	90.9	90.5	91.7	90.9
5/15/2024	89.3	85.0	91.4	94.5	93.5	95.3	92.2	87.1

Notes:
°C = Degress Celsius
TTZ = Target treatment zone

Table 4-2a. LGAC Influent VOC Data

Analyte	CAS	Unit	Liquid Influent 12/26/2023	Liquid Influent 1/8/2024	Liquid Influent 1/22/2024	Liquid Influent 2/5/2024	Liquid Influent 2/19/2024	Liquid Influent 2/27/2024	Liquid Influent 3/4/2024	Liquid Influent 3/11/2024	Liquid Influent 3/18/2024	Liquid Influent 3/25/2024	Liquid Influent 4/1/2024	Liquid Influent 4/8/2024	Liquid Influent 4/15/2024	Liquid Influent 4/22/2024	Liquid Influent 4/30/2024
VOCs (EPA 8260)																	
1,1,1,2-Tetrachloroethane	630-20-6	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,1,1-Trichloroethane	71-55-6	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/l	60 U	60 U	30 U	1,200 U	60 U	15 U	6.0 U	6.0 U	3.0 U	12 U	12 U	3.0 U	3.0 U	6.0 U	3.0 U
1,1,2-Trichloroethane	79-00-5	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.9	1.0	2.0 U	1.1
1,1-Dichloroethane	75-34-3	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,1-Dichloroethene	75-35-4	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,1-Dichloropropene	563-58-6	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2,3-Trichlorobenzene	87-61-6	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U+	8.0 U	2.0 U	2.0 U	4.0 U	4.0 U
1,2,3-Trichloropropane	96-18-4	µg/l	50 U	50 U	25 U	1,000 U	50 U	13 U	5.0 U	5.0 U	2.5 U	10 U	10 U	2.5 U	2.5 U	5.0 U	2.5 U
1,2,4-Trichlorobenzene	120-82-1	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2,4-Trimethylbenzene	95-63-6	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	96-12-8	µg/l	100 U	100 U+	50 U	2,000 U	100 U	25 U	10 U	10 U	5.0 U	20 U	20 U	5.0 U	5.0 U	10 U	5.0 U
1,2-Dichlorobenzene	95-50-1	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2-Dichloroethane	107-06-2	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2-Dichloropropane	78-87-5	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,3,5-Trimethylbenzene	108-67-8	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,3-Dichlorobenzene	541-73-1	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,3-Dichloropropane	142-28-9	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,4-Dichlorobenzene	106-46-7	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
2,2-Dichloropropane	594-20-7	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
2-Butanone (MEK)	78-93-3	µg/l	300 U	300 U	150 U	6,000 U	300 U	75 U	30 U	**43**	**49**	60 U	60 U	**46**	**22**	**53**	30 U
2-Chlorotoluene	95-49-8	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
2-Hexanone	591-78-6	µg/l	100 U	100 U	50 U	2,000 U	100 U	25 U	10 U	10 U	5.0 U	20 U	20 U	5.0 U	5.0 U	10 U	5.0 U
3-Chloro-1-propene	107-05-1	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U	8.0 U	2.0 U	2.0 U	4.0 U	2.0 U
4-Chlorotoluene	106-43-4	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
4-Isopropyltoluene	99-87-6	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
4-Methyl-2-pentanone (MIBK)	108-10-1	µg/l	100 U	100 U	50 U	2,000 U	100 U	25 U	10 U	10 U	5.0 U	20 U	20 U	5.0 U	5.0 U	10 U	5.0 U
Acetone	67-64-1	µg/l	300 U	300 U	**790**	6,000 U	**450**	**450**	**550**	**450**	**450**	**370**	**490**	**410**	**240**	**520**	**140**
Acrylonitrile	107-13-1	µg/l	400 U	400 U	200 U	8,000 U	400 U	100 U	40 U	40 U	20 U	80 U	80 U	20 U	20 U	40 U	20 U
Benzene	71-43-2	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Bromobenzene	108-86-1	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Bromoform	75-25-2	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U	8.0 U	2.0 U	2.0 U	4.0 U	2.0 U
Bromomethane	74-83-9	µg/l	100 U	100 U	50 U	2,000 U	100 U	25 U	10 U	10 U	5.0 U	20 U	20 U	5.0 U	5.0 U	10 U	5.0 U
Carbon disulfide	75-15-0	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U	8.0 U	2.0 U	2.0 U	4.0 U	2.0 U
Carbon tetrachloride	56-23-5	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Chlorobenzene	108-90-7	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Chlorobromomethane	74-97-5	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Chlorodifluoromethane	124-48-1	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U	8.0 U	2.0 U	2.0 U	4.0 U	1.0 U
Chloroethane	75-00-3	µg/l	80 U	80 U	40 U	1,600 U	80 U	20 U	8.0 U	8.0 U	4.0 U	16 U	16 U	4.0 U	4.0 U	8.0 U	2.0 U
Chloroform	67-66-3	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Chloromethane	74-87-3	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U	8.0 U	2.0 U	2.0 U	4.0 U	2.0 U
cis-1,2-Dichloroethene	156-59-2	µg/l	140	66	41	4,000 U	40	58	58	48	23	27	55	48	29	16	18
cis-1,3-Dichloropropene	10061-01-5	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U+	8.0 U	2.0 U	2.0 U+	4.0 U	1.0 U
Cyclohexane	110-82-7	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Dibromomethane	74-95-3	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Dichlorodifluoromethane	75-27-4	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Dichlorofluoromethane	75-71-8	µg/l	60 U	60 U	30 U	1,200 U	60 U	15 U	6.0 U	6.0 U	3.0 U	12 U	12 U	3.0 U	3.0 U	6.0 U	2.0 U
Ethyl ether	60-29-7	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U	8.0 U	2.0 U	2.0 U	4.0 U	2.0 U
Ethyl methacrylate	97-63-2	µg/l	60 U	60 U	30 U	1,200 U	60 U	15 U	6.0 U	6.0 U	3.0 U	12 U	12 U	3.0 U	3.0 U	6.0 U	3.0 U
Ethylbenzene	100-41-4	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Ethylene Dibromide	106-93-4	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Hexachlorobutadiene	87-68-3	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U	8.0 U	2.0 U	2.0 U	4.0 U	2.0 U
Hexane	110-54-3	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U+	8.0 U	2.0 U	2.0 U	4.0 U	2.0 U
Iodomethane	74-88-4	µg/l	100 U	100 U	50 U	2,000 U	100 U	25 U	10 U	10 U	5.0 U	20 U	20 U	5.0 U	5.0 U	10 U	5.0 U
Isopropylbenzene	98-82-8	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Methyl acetate	79-20-9	µg/l	100 U	100 U	50 U	2,000 U	100 U	25 U	10 U	10 U	5.0 U	20 U	20 U	5.0 U	5.0 U	10 U	5.0 U
Methyl tert-butyl ether	1634-04-4	µg/l	100 U	100 U	50 U	2,000 U	100 U	25 U	10 U	10 U	5.0 U	20 U	20 U	5.0 U	5.0 U	10 U	5.0 U
Methylcyclohexane	108-87-2	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Methylene Chloride	75-09-2	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U	8.0 U	2.0 U	2.0 U	4.0 U	2.0 U
m-Xylene & p-Xylene	179601-23-1	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U	8.0 U	2.0 U	2.0 U	4.0 U	2.0 U
Naphthalene	91-20-3	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U	8.0 U	2.0 U	2.0 U	4.0 U	3.0 U
n-Butylbenzene	104-51-8	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
N-Propylbenzene	103-65-1	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
o-Xylene	95-47-6	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
sec-Butylbenzene	135-98-8	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Styrene	100-42-5	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
tert-Butylbenzene	98-06-6	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Tetrachloroethene	127-18-4	µg/l	**2,900**	**1,500**	**1,500**	**85,000**	**1,000**	**550**	**200**	**270**	**260**	**180**	**270**	**280**	**160**	**170**	**160**
Tetrahydrofuran	109-99-9	µg/l	140 U	140 U	70 U	2,800 U	140 U	35 U	14 U	14 U	7.0 U	28 U	28 U	7.0 U	7.0 U	14 U	7.0 U
Toluene	108-88-3	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
trans-1,2-Dichloroethene	156-60-5	µg/l	20 U	20 U	10 U	400 U	20 U	5.0 U	2.0 U	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	2.0 U	1.0 U
trans-1,3-Dichloropropene	10061-02-6	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U	8.0 U	2.0 U	2.0 U	4.0 U	1.0 U
Trichloroethene	79-01-6	µg/l	**130**	**77**	**49**	400 U	**26**	**24**	**14**	**12**	**7.6**	**10**	**9.5**	**25**	**4.2**	**4.9**	**4.7**
Trichlorofluoromethane	75-69-4	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U	8.0 U	2.0 U	2.0 U	4.0 U	2.0 U
Vinyl acetate	108-05-4	µg/l	60 U+	60 U	30 U	1,200 U	60 U	15 U	6.0 U	6.0 U	3.0 U	12 U+	12 U	3.0 U	3.0 U	6.0 U	3.0 U
Vinyl chloride	75-01-4	µg/l	40 U	40 U	20 U	800 U	40 U	10 U	4.0 U	4.0 U	2.0 U	8.0 U	8.0 U	2.0 U	2.0 U	4.0 U	1.0 U

Notes:
µg = Microgram
l = Liter
LGAC = Liquid-phase granular activated carbon
VOC = Volatile Organic Compound
U = Compound not detected at reporting limit shown
J = Estimated concentration; below the reporting limit but above the Method Detection Limit (MDL)
Bolded cells report chemical detections

Table 4-2b. MPE Liquid VOC Data

Analyte	CAS	Unit	MPE-01 3/11/2024	MPE-02 3/11/2024	MPE-03 3/11/2024	MPE-04 3/11/2024	MPE-01 3/21/2024	MPE-01 DUP 3/21/2024	MPE-02 3/21/2024	MPE-03 3/21/2024	MPE-04 3/21/2024	MPE-05 3/21/2024	MPE-06 3/21/2024	MPE-08 3/21/2024	MPE-09 3/21/2024	MPE-10 3/21/2024	MPE-11 3/21/2024	MPE-12 3/21/2024	MPE-13 3/21/2024	MPE-15 3/21/2024	MPE-16 3/21/2024	MPE-01 4/22/2024
VOCs (EPA 8260)																						
1,1,1,2-Tetrachloroethane	630-20-6	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
1,1,1-Trichloroethane	71-55-6	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/l	150 U	3.0 U	3.0 U	3.0 U	150 U	150 U	3.0 U	12 U	3.0 U	6.0 U	3.0 U	3.0 U	120 U	3.0 U	12 U	3.0 U	3.0 U	3.0 U	3.0 U	150 U
1,1,2-Trichloroethane	79-00-5	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
1,1-Dichloroethane	75-34-3	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
1,1-Dichloroethene	75-35-4	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
1,1-Dichloropropene	563-58-6	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
1,2,3-Trichlorobenzene	87-61-6	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 UJ
1,2,3-Trichloropropane	96-18-4	µg/l	130 U	2.5 U	2.5 U	2.5 U	130 U	130 U	2.5 U	10 U	2.5 U	5.0 U	2.5 U	2.5 U	100 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	130 U
1,2,4-Trichlorobenzene	120-82-1	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
1,2,4-Trimethylbenzene	95-63-6	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
1,2-Dibromo-3-Chloropropane	96-12-8	µg/l	250 U	5.0 U	5.0 U	5.0 U	250 U	250 U	5.0 U	20 U	5.0 U	10 U	5.0 U	5.0 U	200 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	250 U
1,2-Dichlorobenzene	95-50-1	µg/l	50 U	1.0 U	25	5.0	50 U	50 U	1.0 U	4.0 U	1.2	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.4	50 U
1,2-Dichloroethane	107-06-2	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
1,2-Dichloropropane	78-87-5	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
1,3,5-Trimethylbenzene	108-67-8	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
1,3-Dichlorobenzene	541-73-1	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
1,3-Dichloropropane	142-28-9	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
1,4-Dichlorobenzene	106-46-7	µg/l	50 U	1.0 U	3.8	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
2,2-Dichloropropane	594-20-7	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
2-Butanone (MEK)	78-93-3	µg/l	750 U	15 U	15 U	38	750 U	750 U	15 U	60 U	15 U	81	15 U	15 U	600 U	15 U	60 U	15 U	15 U	15 U	15 U	750 U
2-Chlorotoluene	95-49-8	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
2-Hexanone	591-78-6	µg/l	250 U	5.0 U	5.0 U	5.0 U	250 U	250 U	5.0 U	20 U	5.0 U	10 U	5.0 U	5.0 U	200 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	250 U
3-Chloro-1-propene	107-05-1	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 U
4-Chlorotoluene	106-43-4	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
4-Isopropyltoluene	99-87-6	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
4-Methyl-2-pentanone (MIBK)	108-10-1	µg/l	250 U	5.0 U	5.0 U	5.0 U	250 U	250 U	5.0 U	20 U	5.0 U	10 U	5.0 U	5.0 U	200 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	250 U
Acetone	67-64-1	µg/l	750 U	79	230	190	750 U	750 U	26	84	71	440	250	130	600 U	47	220	130	180	89	52	750 U
Acrylonitrile	107-13-1	µg/l	1,000 U	20 U	20 U	20 U	1,000 U	1,000 U	20 U	80 U	20 U	40 U	20 U	20 U	800 U	20 U	80 U	20 U	20 U	20 U	20 U	1,000 U
Benzene	71-43-2	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
Bromobenzene	108-86-1	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
Bromoform	75-25-2	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 U
Bromomethane	74-83-9	µg/l	250 U	5.0 U	5.0 U	5.0 U	250 U	250 U	5.0 U	20 U	5.0 U	10 U	5.0 U	5.0 U	200 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	250 U
Carbon disulfide	75-15-0	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 U
Carbon tetrachloride	56-23-5	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
Chlorobenzene	108-90-7	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
Chlorobromomethane	74-97-5	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
Chlorodibromomethane	124-48-1	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 U
Chloroethane	75-00-3	µg/l	200 U	4.0 U	4.0 U	4.0 U	200 U	200 U	4.0 U	16 U	4.0 U	8.0 U	4.0 U	4.0 U	160 U	4.0 U	16 U	4.0 U	4.0 U	4.0 U	4.0 U	200 U
Chloroform	67-66-3	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
Chloromethane	74-87-3	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 UJ
cis-1,2-Dichloroethene	156-59-2	µg/l	50 U	4.8	2.2	1.0 U	50 U	50 U	2.2	4.0 U	1.0 U	2.0 U	1.0 U	7.9	100	1.0 U	4.7	9.5	1.0 U	1.0 U	1.0 U	50 U
cis-1,3-Dichloropropene	10061-01-5	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 U
Cyclohexane	110-82-7	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
Dibromomethane	74-95-3	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
Dichlorobromomethane	75-27-4	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
Dichlorodifluoromethane	75-71-8	µg/l	150 U	3.0 U	3.0 U	3.0 U	150 U	150 U	3.0 U	12 U	3.0 U	6.0 U	3.0 U	3.0 U	120 U	3.0 U	12 U	3.0 U	3.0 U	3.0 U	3.0 U	150 UJ
Ethyl ether	60-29-7	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 U
Ethyl methacrylate	97-63-2	µg/l	150 U	3.0 U	3.0 U	3.0 U	150 U	150 U	3.0 U	12 U	3.0 U	6.0 U	3.0 U	3.0 U	120 U	3.0 U	12 U	3.0 U	3.0 U	3.0 U	3.0 U	150 U
Ethylbenzene	100-41-4	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
Ethylene Dibromide	106-93-4	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
Hexachlorobutadiene	87-68-3	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 U
Hexane	110-54-3	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 U
Iodomethane	74-88-4	µg/l	250 U	5.0 U	5.0 U	5.0 U	250 U	250 U	5.0 U	20 U	5.0 U	10 U	5.0 U	5.0 U	200 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	250 U
Isopropylbenzene	98-82-8	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
Methyl acetate	79-20-9	µg/l	250 U	5.0 U	5.0 U	5.0 U	250 U	250 U	5.0 U	20 U	5.0 U	10 U	5.0 U	5.0 U	200 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	250 U
Methyl tert-butyl ether	1634-04-4	µg/l	250 U	5.0 U	5.0 U	5.0 U	250 U	250 U	5.0 U	20 U	5.0 U	10 U	5.0 U	5.0 U	200 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	250 U
Methylcyclohexane	108-87-2	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
Methylene Chloride	75-09-2	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 U
m-Xylene & p-Xylene	179601-23-1	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 U
Naphthalene	91-20-3	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 U
n-Butylbenzene	104-51-8	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
N-Propylbenzene	103-65-1	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
o-Xylene	95-47-6	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
sec-Butylbenzene	135-98-8	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
Styrene	100-42-5	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
tert-Butylbenzene	98-06-6	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
Tetrachloroethene	127-18-4	µg/l	4,300	300	300	49	6,100	6,400	97	180	88	28	60	180	4,300	150	670	130	26	82	38	8,900
Tetrahydrofuran	109-99-9	µg/l	350 U	7.0 U	7.0 U	7.0 U	350 U	350 U	7.0 U	28 U	7.0 U	14 U	7.0 U	7.0 U	280 U	7.0 U	28 U	7.0 U	7.0 U	7.0 U	7.0 U	350 U
Toluene	108-88-3	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
trans-1,2-Dichloroethene	156-60-5	µg/l	50 U	1.0 U	1.0 U	1.0 U	50 U	50 U	1.0 U	4.0 U	1.0 U	2.0 U	1.0 U	1.0 U	40 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U
trans-1,3-Dichloropropene	10061-02-6	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 U
Trichloroethene	79-01-6	µg/l	50 U	1.2	3.6	1.0 U	190	170	3.4	7.0	1.0 U	2.0 U	1.0 U	4.2	160	2.3	11	5.2	1.0 U	1.6	1.0 U	50 U
Trichlorofluoromethane	75-69-4	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 U
Vinyl acetate	108-05-4	µg/l	150 U	3.0 U	3.0 U	3.0 U	150 U	150 U	3.0 U	12 U	3.0 U	6.0 U	3.0 U	3.0 U	120 U	3.0 U	12 U	3.0 U	3.0 U	3.0 U	3.0 U	150 U
Vinyl chloride	75-01-4	µg/l	100 U	2.0 U	2.0 U	2.0 U	100 U	100 U	2.0 U	8.0 U	2.0 U	4.0 U	2.0 U	2.0 U	80 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 UJ

Notes:
µg = Microgram(s)
EPA = U.S. Environmental Protection Agency
l = Liter
MPE = Multi-phase extraction
VOC = Volatile organic compound
U = Compound not detected at reporting limit shown
J = Estimated concentration; below the reporting limit but above the Method Detection Limit (MDL)

Table 4-3a. VGAC Influent VOC Data

Compounds	CAS	Unit	VGAC Influent 12/15/2023	VGAC Influent 12/26/2023	VGAC Influent 1/8/2024	VGAC Influent 1/22/2024	VGAC Influent 1/29/2024	VGAC Influent 2/5/2024	VGAC Influent 2/19/2024	VGAC Influent 2/27/2024	VGAC Influent 3/4/2024	VGAC Influent 3/11/2024	VGAC Influent 3/19/2024	VGAC Influent 3/25/2024	VGAC Influent 4/1/2024	VGAC Influent 4/8/2024	VGAC Influent 4/15/2024	VGAC Influent 4/22/2024
VOCs (EPA TO-15)																		
Freon 12	75-71-8	µg/m3	59 U	85 U	200 U	590 U	3,500 U	700 U	170 U	75 U	69 U	31 U	50 U	34 U	56 U	18 U	34 U	31 U
Freon 114	76-14-2	µg/m3	85 U	92 U	290 U	830 U	4,700 U	1,100 U	240 U	110 U	90 U	43 U	45 U	48 U	80 U	3.0 U	48 U	44 U
Chloromethane	74-87-3	µg/m3	98 U	110 U	340 U	980 U	5,500 U	1,300 U	93 J	100 J	110 J	55	82	59	60	35	24 J	48 J
Vinyl Chloride	75-01-4	µg/m3	80	190	140	120 J	1,700 U	100 J	130	69	47	35	70	23	11 J	3.7	18 U	32 J
1,3-Butadiene	106-99-0	µg/m3	26 U	29 U	92 U	260 U	1,500 U	350 U	76 U	32 J	9.2 J	10 J	15	6.1 J	16.0 U	1.6 U	5.3 J	5.8 J
Bromomethane	74-83-9	µg/m3	180 U	200 U	650 U	1,800 U	10,000 U	2,400 U	550 U	240 U	200 U	96 U	90 U	110 U	110 U	140 U	110 U	97 U
Chloroethane	75-00-3	µg/m3	120 U	140 U	440 U	1,200 U	7,100 U	1,700 U	360 U	160 U	140 U	65 U	65 U	72 U	76 U	9.4 U	73 U	66 U
Freon 11	75-69-4	µg/m3	67 U	74 U	230 U	630 U	3,800 U	890 U	190 U	86 U	72 U	35 U	34 U	38 U	40 U	4.0 U	39 U	35 U
Ethanol	64-17-5	µg/m3	110 U	120 U	390 U	370 J	740 J	430 J	150 J	240	180	110	150	140	220	12 J	210	390
Freon 113	76-13-1	µg/m3	91 U	100 U	320 U	910 U	5,100 U	1,200 U	260 U	120 U	99 U	48 U	47 U	52 U	55 U	5.5 U	53 U	48 U
1,1-Dichloroethene	75-35-4	µg/m3	47 U	33 J	160 U	470 U	2,600 U	630 U	27 J	30 J	17 J	35 J	27	8.6 J	9.2 J	6.0	7.4 J	5.4 J
Acetone	67-64-1	µg/m3	360	760	2,600	5,900	5,600 J	6,900	4,500	8,700	8,300	5,900	9,900	7,000	4,900	31 J	5,400	6,500
2-Propanol	67-63-0	µg/m3	150 U	160 U	510 U	200 J	8,200 U	130 J	420 U	53 J	40 J	28 J	82 J	28 J	34 J	35 U	38 J	43 J
Carbon Disulfide	75-15-0	µg/m3	67 J	240	440 J	330 J	8,500 U	350 J	250 J	240	240	140	180	160	89 J	23 J	63 J	88
3-Chloropropene	107-05-1	µg/m3	150 U	160 U	520 U	1,500 U	8,400 U	2,000 U	430 U	190 U	160 U	78 U	77 U	86 U	90 U	11 U	87 U	78 U
Methylene Chloride	75-09-2	µg/m3	160 U	180 U	580 U	1,600 U	9,300 U	2,200 U	480 U	210 U	180 U	86 U	85 U	95 U	100 U	12 U	96 U	87 U
Methyl tert-butyl ether	1634-04-4	µg/m3	43 U	47 U	150 U	430 U	2,400 U	570 U	120 U	55 U	46 U	22 U	22 U	25 U	26 U	2.6 U	25 U	22 U
trans-1,2-Dichloroethene	156-60-5	µg/m3	50	66	92 J	87 J	2,600 U	630 U	50 J	53 J	44 J	26	54	25 J	12 J	8.6	17 J	16 J
Hexane	110-54-3	µg/m3	42 U	46 U	150 U	420 U	2,400 U	560 U	120 U	54 U	45 U	22 U	6 J	33 J	25 U	13 U	24 U	5.1 J
1,1-Dichloroethane	75-34-3	µg/m3	48 U	53 U	170 U	480 U	2,700 U	640 U	140 U	62 U	52 U	25 U	25 U	28 U	29 U	2.9 U	28 U	25 U
2-Butanone (Methyl Ethyl Ketone)	78-93-3	µg/m3	77 J	170	410 J	530 J	7,900 U	770 J	1,000	1,400	1,300	960	1,700	1,100	960	6.5 J	850	1,200
cis-1,2-Dichloroethene	156-59-2	µg/m3	3,300	2,400	2,900	2,100	1,500 J	990	710	720	790	450	540	360	240	240	170	180
Tetrahydrofuran	109-99-9	µg/m3	35 U	38 U	120 U	350 U	2,000 U	460 U	100 U	18 J	38 U	18 U	17 J	12 J	15 J	10 U	13 J	15 J
Chloroform	67-66-3	µg/m3	15 J	64 U	200 U	71 J	9,300 U	770 U	170 U	12 J	63 U	30 U	8 J	10 J	8 J	1.8 J	5.0 J	4.8 J
1,1,1-Trichloroethane	71-55-6	µg/m3	65 U	71 U	250 U	650 U	3,600 U	860 U	190 U	83 U	70 U	34 U	34 U	37 U	39 U	3.9 U	38 U	34 U
Cyclohexane	110-82-7	µg/m3	41 U	45 U	140 U	410 U	2,300 U	540 U	120 U	52 U	44 U	21 U	21 U	24 U	25 U	12 U	24 U	22 U
Carbon Tetrachloride	56-23-5	µg/m3	75 U	82 U	260 U	750 U	4,200 U	990 U	220 U	96 U	81 U	39 U	39 U	43 U	45 U	4.5 U	44 U	39 U
2,2,4-Trimethylpentane	540-84-1	µg/m3	50 U	61 U	190 U	500 U	3,100 U	740 U	160 U	71 U	8.9 J	29 U	29 U	32 U	34 U	17 U	32 U	29 U
Benzene	71-43-2	µg/m3	100	120	130 J	130 J	2,100 U	190 J	170	170	160	100	170	130	120	0.53 J	95	120
1,2-Dichloroethane	107-06-2	µg/m3	48 U	53 U	170 U	480 U	2,700 U	640 U	140 U	62 U	52 U	25 U	25 U	28 U	29 U	2.9 U	28 U	25 U
Heptane	142-82-5	µg/m3	40 U	54 U	170 U	490 U	2,700 U	100 J	140 U	52 J	40 J	25 U	47	37	30 U	15 U	26 J	37
Trichloroethene	79-01-6	µg/m3	3,400	4,900	7,200	5,400	14,000	7,600	2,100	1,900	1,800	1,000	1,400	850	640	98	470	560
1,2-Dichloropropane	78-87-5	µg/m3	55 U	60 U	190 U	550 U	3,100 U	730 U	45 J	43 J	46 J	31	48	28 J	44	1.5 J	46	35
1,4-Dioxane	123-91-1	µg/m3	170 U	190 U	600 U	1,700 U	9,600 U	2,300 U	490 U	220 U	180 U	89 U	89 U	99 U	100 U	13 U	100 U	90 U
Bromodichloromethane	75-27-4	µg/m3	80 U	88 U	280 U	800 U	4,500 U	1,000 U	230 U	100 U	86 U	42 U	41 U	46 U	48 U	4.8 U	46 U	42 U
cis-1,3-Dichloropropene	10061-01-5	µg/m3	58 U	59 U	190 U	540 U	3,000 U	720 U	160 U	69 U	58 U	28 U	28 U	31 U	33 U	3.2 U	32 U	28 U
4-Methyl-2-pentanone	108-10-1	µg/m3	190 U	210 U	680 U	1,900 U	11,000 U	2,600 U	560 U	230 U	210 U	100 U	45 J	110 U	120 U	2.9 U	110 U	34 J
Toluene	108-88-3	µg/m3	110	85	120 J	460	290 J	140 J	150	130	120	76	120	85	85	27 U	55	120
trans-1,3-Dichloropropene	10061-02-6	µg/m3	54 U	59 U	190 U	540 U	3,000 U	720 U	160 U	69 U	58 U	28 U	28 U	31 U	33 U	3.2 U	32 U	28 U
1,1,2-Trichloroethane	79-00-5	µg/m3	65 U	71 U	250 U	650 U	3,600 U	860 U	190 U	83 U	70 U	34 U	34 U	37 U	39 U	3.9 U	38 U	34 U
Tetrachloroethene	127-18-4	µg/m3	98,000	170,000	490,000	700,000	5,500,000	2,200,000	500,000	170,000	150,000	76,000	86,000	65,000	38,000	1,000	53,000	60,000
2-Hexanone	591-78-6	µg/m3	190 U	210 U	680 U	1,900 U	11,000 U	2,600 U	560 U	230 U	210 U	100 U	29 J	110 U	120 U	15 U	110 U	100 U
Dibromochloromethane	124-48-1	µg/m3	100 U	110 U	350 U	1,000 U	5,700 U	1,300 U	290 U	130 U	110 U	53 U	52 U	58 U	61 U	6.1 U	59 U	53 U
1,2-Dibromoethane (EDB)	106-93-4	µg/m3	91 U	100 U	320 U	910 U	5,100 U	1,200 U	260 U	120 U	99 U	48 U	47 U	53 U	55 U	5.5 U	53 U	48 U
Chlorobenzene	108-90-7	µg/m3	55 U	38 J	190 U	530 U	1,400 J	730 U	11 J	38 U	59 U	28 U	8 J	32 U	33 U	3.3 U	32 U	29 U
Ethyl Benzene	100-41-4	µg/m3	40 J	38 J	64 J	520 U	2,900 U	690 U	55 J	36 J	56 J	18 J	25 J	16 J	28 J	3.1 U	16 J	30
m,p-Xylene	179601-23-1	µg/m3	15 J	26 J	69 J	520 U	730 J	690 U	100 J	62 J	66	48	64	43	44	3.1 U	27 J	64
o-Xylene	95-47-6	µg/m3	10 J	15 J	40 J	520 U	2,000 U	690 U	36 J	27 J	28 J	19 J	25 J	19 J	18 J	3.1 U	9.8 J	20
Styrene	100-42-5	µg/m3	120	98	91 J	49 J	2,800 U	670 U	51 J	28 J	55 J	19 J	20 J	16 J	14 J	3.0 U	16 J	23 J
Bromoform	75-25-2	µg/m3	120 U	140 U	430 U	1,200 U	6,900 U	1,600 U	350 U	160 U	130 U	64 U	64 U	71 U	74 U	7.4 U	72 U	65 U
Cumene	98-82-8	µg/m3	12 J	23 J	34 J	580 U	3,300 U	780 U	24 J	17 J	16 J	9.4 J	30.0 U	7.5 J	8.8 J	3.5 U	5.2 J	9.2 J
1,1,2,2-Tetrachloroethane	79-34-5	µg/m3	82 U	90 U	280 U	820 U	4,600 U	1,100 U	240 U	100 U	88 U	42 U	42 U	47 U	49 U	4.9 U	48 U	43 U
Propylbenzene	103-65-1	µg/m3	58 U	64 U	200 U	580 U	3,300 U	780 U	170 U	75 U	63 U	30 U	30 U	34 U	35 U	3.5 U	34 U	31 U
4-Ethyltoluene	622-96-8	µg/m3	58 U	64 U	200 U	580 U	3,300 U	780 U	45 J	24 J	26 J	6.3 J	22.0 J	15 J	5.5 J	3.5 U	34 U	8.8 J
1,3,5-Trimethylbenzene	108-67-8	µg/m3	58 U	64 U	60 J	580 U	3,300 U	780 U	55 J	36 J	15 J	10 J	15 J	10 J	7.3 J	3.5 U	5.8 J	10 J
1,2,4-Trimethylbenzene	95-63-6	µg/m3	19 J	21 J	110 J	580 U	3,300 U	780 U	100 J	62 J	82	59	78	51	42	3.5 U	25	62
1,3-Dichlorobenzene	541-73-1	µg/m3	72 U	79 U	250 U	720 U	4,000 U	950 U	210 U	92 U	78 U	37 U	37 U	41 U	43 U	4.3 U	42 U	38 U
1,4-Dichlorobenzene	106-46-7	µg/m3	72 U	79 U	250 U	720 U	4,000 U	950 U	210 U	92 U	78 U	37 U	37 U	41 U	43 U	4.3 U	42 U	38 U
alpha-Chlorotoluene	100-44-7	µg/m3	62 U	68 U	220 U	620 U	3,500 U	820 U	180 U	79 U	67 U	32 U	32 U	35 U	37 U	3.7 U	36 U	32 U
1,2-Dichlorobenzene	95-50-1	µg/m3	72 U	79 U	250 U	720 U	4,000 U	950 U	210 U	92 U	78 U	37 U	37 U	41 U	43 U	4.3 U	42 U	38 U
1,2,4-Trichlorobenzene	120-82-1	µg/m3	350 U	390 U	1,200 U	3,500 U	20,000 U	4,700 U	1,000 U	450 U	380 U	180 U	180 U	200 U	210 U	26 U	210 U	180 U
Hexachlorobutadiene	87-68-3	µg/m3	510 U	560 U	1,800 U	5,100 U	28,000 U	6,700 U	1,500 U	650 U	550 U	260 U	260 U	290 U	510 U	38 U	300 U	270 U
Naphthalene	91-20-3	µg/m3	250 U	270 U	870 U	2,500 U	14,000 U	96 J	180 J	23 J	42 J	27 J	29 J	19 J	130 U	7.5 U	140 U	12 J

Notes:
µg = Microgram(s)
EPA = U.S. Environmental Protection Agency
J = Estimated concentration; below the reporting limit but above the Method Detection Limit (MDL)
m = Meter(s)
U = Compound not detected at reporting limit shown
VGAC = Vapor-phase granular activated carbon
Bolded Cells represent chemical detections

Table 4-3b. HSVE Influent VOC Data

Compounds	CAS	Unit	Comb-HSVE 1/11/2024	Comb-HSVE 1/22/2024	Comb-HSVE 2/5/2024	Comb-HSVE 2/19/2024	Comb-HSVE 2/27/2024	Comb-HSVE 3/4/2024	Comb-HSVE 3/11/2024	Comb-HSVE 3/19/2024	Comb-HSVE 3/25/2024	Comb-HSVE 4/1/2024	Comb-HSVE 4/8/2024	Comb-HSVE 4/15/2024	Comb-HSVE 4/22/2024
VOCs (EPA TO-15)															
Freon 12	75-71-8	µg/m³	2.9 J	33 U	160 U	31 U	39 U	36 U	34 U	33 U	35 U	39 U	11 U	1.9 J	21 U
Freon 114	76-14-2	µg/m³	0.95 U	46 U	230 U	44 U	55 U	51 U	48 U	47 U	49 U	11 U	16 U	4.8 U	30 U
Chloromethane	74-87-3	µg/m³	1.4 U	54 U	270 U	52 U	65 U	61 U	57 U	55 U	58 U	16 U	46 U	7.0 U	87 U
Vinyl Chloride	75-01-4	µg/m³	0.35 U	17 U	83 U	16 U	20 U	19 U	18 U	17 U	18 U	4.0 U	5.7 U	1.7 U	11 U
1,3-Butadiene	106-99-0	µg/m³	0.30 U	15 U	72 U	14 U	17 U	16 U	15 U	15 U	15 U	3.5 U	4.9 U	1.5 U	9.4 U
Bromomethane	74-83-9	µg/m³	26 U	100 U	500 U	98 U	120 U	110 U	110 U	100 U	110 U	300 U	87 U	130 U	160 U
Chloroethane	75-00-3	µg/m³	1.8 U	70 U	340 U	66 U	83 U	78 U	73 U	71 U	74 U	21 U	24 U	9.0 U	45 U
Freon 11	75-69-4	µg/m³	1.1	37 U	180 U	35 U	44 U	41 U	39 U	38 U	39 U	8.8 U	12 U	1.1 J	24 U
Ethanol	64-17-5	µg/m³	5.6 J0	23 J	310 U	59 U	74 U	69 U	65 U	63 U	35 J	45 J	33 J	24 J	80 U
Freon 113	76-13-1	µg/m³	0.43 J	50 U	250 U	48 U	60 U	56 U	53 U	51 U	54 U	12 U	17 U	5.2 U	32 U
1,1-Dichloroethene	75-35-4	µg/m³	0.54 U	26 U	130 U	25 U	31 U	29 U	28 U	6.6 J	28 U	6.2 U	8.8 U	2.7 U	17 U
Acetone	67-64-1	µg/m³	23	63 U	310 U	45 J	70 J	38 J	140	270	930	460	250	250	130
2-Propanol	67-63-0	µg/m³	0.78 J	81 U	400 U	77 U	96 U	90 U	85 U	82 U	86 U	77 U	22 U	6.3 J	42 U
Carbon Disulfide	75-15-0	µg/m³	0.16 J	82 U	400 U	17 J	12 J	17 J	14 J	40 J	28 J	240 U	8.1 J	4.5 J	53 U
3-Chloropropene	107-05-1	µg/m³	2.1 U	83 U	410 U	79 U	98 U	92 U	87 U	84 U	88 U	24 U	28 U	11 U	53 U
Methylene Chloride	75-09-2	µg/m³	0.69 J	92 U	450 U	88 U	110 U	100 U	96 U	93 U	97 U	27 U	77 U	12 U	150 U
Methyl tert-butyl ether	1634-04-4	µg/m³	0.49 U	24 U	120 U	23 U	28 U	26 U	25 U	24 U	25 U	5.7 U	32 U	2.4 U	61 U
trans-1,2-Dichloroethene	156-60-5	µg/m³	0.54 U	26 U	130 U	25 U	31 U	29 U	28 U	11 J	28 U	6.2 U	8.8 U	0.61 J	17 U
Hexane	110-54-3	µg/m³	0.080 J	23 U	110 U	22 U	28 U	26 U	24 U	24 U	25 U	28 U	7.8 U	12 U	15 U
1,1-Dichloroethane	75-34-3	µg/m³	0.55 U	27 U	130 U	26 U	32 U	30 U	28 U	27 U	28 U	6.4 U	9.0 U	2.8 U	17 U
2-Butanone (Methyl Ethyl Ketone)	78-93-3	µg/m³	4.8 J	78 U	380 U	74 U	92 U	87 U	24 J	34 J	82 U	3.4 J	26 U	4.8 J	50 U
cis-1,2-Dichloroethene	156-59-2	µg/m³	0.22 J	8.1 J	130 U	58	73	130	460	320	230	16	99	10	55
Tetrahydrofuran	109-99-9	µg/m³	2.0 U	19 U	96 U	18 U	23 U	22 U	20 U	20 U	21 U	23 U	6.6 U	10 U	12 U
Chloroform	67-66-3	µg/m³	0.89	32 U	160 U	31 U	38 U	36 U	34 U	3.4 J	34 U	7.7 U	11 U	0.88 J	21 U
1,1,1-Trichloroethane	71-55-6	µg/m³	0.74 U	36 U	180 U	34 U	43 U	40 U	38 U	36 U	38 U	8.6 U	12 U	3.7 U	23 U
Cyclohexane	110-82-7	µg/m³	0.47 J	23 U	110 U	22 U	27 U	25 U	24 U	23 U	24 U	27 U	7.7 U	12 U	14 U
Carbon Tetrachloride	56-23-5	µg/m³	0.41 J	42 U	200 U	40 U	49 U	46 U	44 U	42 U	44 U	10 U	14 U	4.3 U	27 U
2,2,4-Trimethylpentane	540-84-1	µg/m³	0.33 J	31 U	150 U	29 U	37 U	34 U	32 U	31 U	33 U	37 U	10 U	16 U	20 U
Benzene	71-43-2	µg/m³	0.52	21 U	100 U	7.7 J	9.5 J	12 J	11 J	20 J	9.4 J	2.5 J	2.0 J	3.3	6.8 J
1,2-Dichloroethane	107-06-2	µg/m³	0.55 U	27 U	130 U	25 U	32 U	30 U	28 U	27 U	28 U	6.4 U	9.0 U	2.8 U	17 U
Heptane	142-82-5	µg/m³	2.8 U	27 U	130 U	26 U	32 U	30 U	28 U	27 U	29 U	32 U	9.1 U	14 U	17 U
Trichloroethene	79-01-6	µg/m³	1.7	180	910	280	210	790	980	840	530	42	110	30	200
1,2-Dichloropropane	78-87-5	µg/m³	0.63 U	30 U	150 U	29 U	36 U	34 U	32 U	31 U	32 U	7.2 U	10 U	3.1 U	20 U
1,4-Dioxane	123-91-1	µg/m³	2.4 U	95 U	470 U	91 U	110 U	100 U	100 U	96 U	100 U	28 U	32 U	12 U	61 U
Bromodichloromethane	75-27-4	µg/m³	0.91 U	44 U	220 U	42 U	52 U	49 U	46 U	45 U	47 U	10 U	15 U	4.6 U	28 U
cis-1,3-Dichloropropene	10061-01-5	µg/m³	0.62 U	30 U	150 U	28 U	36 U	33 U	32 U	30 U	32 U	7.1 U	10 U	3.1 U	19 U
4-Methyl-2-pentanone	108-10-1	µg/m³	0.56 U	110 U	530 U	100 U	130 U	120 U	110 U	110 U	110 U	6.4 U	9.1 U	2.8 U	17 U
Toluene	108-88-3	µg/m³	8.1	2.6 J	120 U	6.5 J	11 J	20 J	9.3 J	44	120	57 J	26	22 J	11 J
trans-1,3-Dichloropropene	10061-02-6	µg/m³	0.62 U	30 U	150 U	28 U	36 U	33 U	32 U	30 U	32 U	7.1 U	10 U	3.1 U	19 U
1,1,2-Trichloroethane	79-00-5	µg/m³	0.34 J	36 U	180 U	34 U	43 U	40 U	38 U	36 U	38 U	8.6 U	12 U	3.7 U	23 U
Tetrachloroethene	127-18-4	µg/m³	46	49,000	220,000	53,000	39,000	50,000	61,000	43,000	27,000	2,800	4,500	1,800	8,600
2-Hexanone	591-78-6	µg/m³	2.8 U	110 U	530 U	100 U	130 U	120 U	110 U	110 U	110 U	32 U	36 U	14 U	69 U
Dibromochloromethane	124-48-1	µg/m³	1.2 U	56 U	280 U	54 U	67 U	63 U	59 U	57 U	60 U	13 U	19 U	5.8 U	36 U
1,2-Dibromoethane (EDB)	106-93-4	µg/m³	1.0 U	51 U	250 U	48 U	60 U	56 U	53 U	51 U	54 U	12 U	17 U	5.2 U	32 U
Chlorobenzene	108-90-7	µg/m³	0.63 U	30 U	150 U	29 U	36 U	34 U	32 U	31 U	32 U	7.2 U	10 U	3.1 U	19 U
Ethyl Benzene	100-41-4	µg/m³	0.59 U	29 U	140 U	27 U	34 U	32 U	30 U	5.6 J	6.4 J	1.9 J	9.7 U	0.47 J	18 U
m,p-Xylene	179601-23-1	µg/m³	0.59 U	29 U	140 U	27 U	34 U	7.3 J	4.4 J	7.4 J	12 J	3.7 J	19 U	1.1 J	3.0 J
o-Xylene	95-47-6	µg/m³	0.59 U	29 U	140 U	27 U	34 U	32 U	30 U	29 U	30 U	6.8 U	9.7 U	0.43 J	18 U
Styrene	100-42-5	µg/m³	0.58 U	28 U	140 U	27 U	33 U	31 U	30 U	28 U	10 J	5.1 J	2.0 J	2.3 J	18 U
Bromoform	75-25-2	µg/m³	1.4 U	68 U	340 U	65 U	81 U	76 U	72 U	69 U	72 U	16 U	23 U	7.0 U	44 U
Cumene	98-82-8	µg/m³	0.24 J	32 U	160 U	31 U	3.4 J	3.1 J	2.5 J	33 U	34 U	7.7 U	11 U	0.22 J	21 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/m³	0.93 U	45 U	220 U	43 U	54 U	50 U	48 U	46 U	48 U	11 U	15 U	4.7 U	29 U
Propylbenzene	103-65-1	µg/m³	0.67 U	32 U	160 U	31 U	38 U	36 U	34 U	33 U	34 U	7.7 U	11 U	3.3 U	21 U
4-Ethyltoluene	622-96-8	µg/m³	0.67 U	32 U	160 U	31 U	38 U	36 U	34 U	33 U	5.0 J	7.7 U	11 U	0.69 J	21 U
1,3,5-Trimethylbenzene	108-67-8	µg/m³	0.67 U	32 U	160 U	31 U	38 U	36 U	34 U	33 U	34 U	7.7 U	11 U	0.29 J	21 U
1,2,4-Trimethylbenzene	95-63-6	µg/m³	0.67 U	32 U	160 U	31 U	5.4 J	5.4 J	7.2 J	5.8 J	9.0 J	2.4 J	11 U	3.3 U	21 U

Table 4-3b. HSVE Influent VOC Data

			Comb-HSVE	Comb-HSVE	Comb-HSVE	Comb-HSVE	Comb-HSVE	Comb-HSVE	Comb-HSVE	Comb-HSVE	Comb-HSVE	Comb-HSVE	Comb-HSVE	Comb-HSVE	Comb-HSVE
1,3-Dichlorobenzene	541-73-1	µg/m³	0.82 U	40 U	200 U	38 U	47 U	44 U	42 U	40 U	42 U	9.4 U	13 U	4.1 U	25 U
1,4-Dichlorobenzene	106-46-7	µg/m³	0.82 U	40 U	200 U	38 U	47 U	44 U	42 U	40 U	42 U	9.4 U	13 U	4.1 U	25 U
alpha-Chlorotoluene	100-44-7	µg/m³	0.70 U	34 U	170 U	33 U	41 U	38 U	36 U	35 U	36 U	8.1 U	12 U	3.5 U	22 U
1,2-Dichlorobenzene	95-50-1	µg/m³	0.82 U	40 U	200 U	38 U	47 U	44 U	42 U	40 U	42 U	9.4 U	13 U	4.1 U	25 U
1,2,4-Trichlorobenzene	120-82-1	µg/m³	5.0 U	200 U	960 U	190 U	230 U	220 U	210 U	200 U	210 U	58 U	66 U	25 U	120 U
Hexachlorobutadiene	87-68-3	µg/m³	7.2 U	280 U	1,400 U	270 U	330 U	310 U	300 U	280 U	300 U	84 U	95 U	36 U	180 U
Naphthalene	91-20-3	µg/m³	1.4 U	140 U	680 U	130 U	160 U	150 U	140 U	140 U	150 U	16 U	23 U	**1.1** J	44 U

Notes:
µg = Microgram(s)
EPA = U.S. Environmental Protection Agency
HSVE = Horizontal soil vapor extraction
J = Estimated concentration; below the reporting limit but above the Method Detection Limit (MDL).
m = Meter(s)
U = Compound not detected at reporting limit shown.
Bolded cells report chemical detections

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Table 4-4. VOC Mass Removal

Date	TTZ Average (°C)	Total Mass Removed (lbs/day)	Total Vapor Mass Removed (lbs/day)	Total Liquid Mass Removed (lbs/day)
12/1/2023	21.8	0.00	0.00	0.00
12/2/2023	21.9	0.00	0.00	0.00
12/3/2023	22.1	0.51	0.51	0.00
12/4/2023	22.2	1.11	1.11	0.00
12/5/2023	22.6	0.58	0.58	0.00
12/6/2023	23.0	0.62	0.62	0.00
12/7/2023	23.4	0.73	0.73	0.00
12/8/2023	24.1	1.00	1.00	0.00
12/9/2023	25.1	0.96	0.96	0.00
12/10/2023	26.1	0.89	0.89	0.00
12/11/2023	27.0	0.78	0.78	0.00
12/12/2023	28.2	0.46	0.46	0.00
12/13/2023	29.3	2.23	2.23	0.00
12/14/2023	30.5	2.24	2.24	0.00
12/15/2023	31.6	2.59	2.59	0.00
12/16/2023	32.8	1.94	1.94	0.00
12/17/2023	34.3	1.37	1.37	0.00
12/18/2023	36.0	0.88	0.88	0.00
12/19/2023	37.5	1.18	1.18	0.00
12/20/2023	38.9	1.96	1.96	0.00
12/21/2023	40.5	2.28	2.28	0.00
12/22/2023	42.0	2.14	2.14	0.00
12/23/2023	43.4	2.66	2.66	0.00
12/24/2023	44.9	3.23	3.23	0.00
12/25/2023	46.5	3.54	3.54	0.00
12/26/2023	48.1	4.54	4.18	0.35
12/27/2023	49.6	6.47	6.11	0.36
12/28/2023	51.3	3.67	3.38	0.29
12/29/2023	52.6	4.70	4.42	0.28
12/30/2023	54.0	5.38	5.11	0.27
12/31/2023	55.5	5.23	4.96	0.27
1/1/2024	57.0	4.83	4.56	0.27
1/2/2024	58.5	4.23	3.96	0.27
1/3/2024	60.1	4.93	4.65	0.28
1/4/2024	61.7	5.81	5.53	0.29
1/5/2024	63.4	6.17	5.88	0.29
1/6/2024	65.1	7.45	7.17	0.29
1/7/2024	66.6	8.80	8.51	0.29
1/8/2024	68.2	10.64	10.46	0.18
1/9/2024	69.6	22.02	21.82	0.20
1/10/2024	70.7	11.97	11.79	0.18
1/11/2024	72.2	22.28	22.09	0.19
1/12/2024	73.6	27.34	27.16	0.19
1/13/2024	74.8	19.76	19.58	0.19
1/14/2024	76.2	21.69	21.50	0.19
1/15/2024	77.6	23.28	23.09	0.19
1/16/2024	79.0	35.33	35.13	0.20
1/17/2024	80.3	33.82	33.63	0.19

Table 4-4. VOC Mass Removal

Date	TTZ Average (°C)	Total Mass Removed (lbs/day)	Total Vapor Mass Removed (lbs/day)	Total Liquid Mass Removed (lbs/day)
1/18/2024	81.5	30.02	29.84	0.18
1/19/2024	82.7	31.59	31.41	0.17
1/20/2024	84.2	32.43	32.23	0.20
1/21/2024	85.7	33.25	33.05	0.20
1/22/2024	87.3	19.50	19.17	0.33
1/23/2024	88.7	23.02	22.67	0.35
1/24/2024	90.0	33.75	33.42	0.33
1/25/2024	91.1	55.26	54.94	0.32
1/26/2024	92.2	81.89	81.58	0.32
1/27/2024	93.3	84.89	84.59	0.31
1/28/2024	94.4	87.92	87.62	0.31
1/29/2024	95.4	165.38	165.07	0.31
1/30/2024	96.2	162.55	162.22	0.33
1/31/2024	96.9	140.55	140.24	0.31
2/1/2024	97.5	136.48	136.21	0.26
2/2/2024	98.0	127.65	127.39	0.27
2/3/2024	98.7	116.01	115.76	0.25
2/4/2024	99.4	103.73	103.48	0.25
2/5/2024	100.0	57.08	51.07	6.00
2/6/2024	100.5	42.62	34.67	7.95
2/7/2024	101.0	31.04	24.13	6.91
2/8/2024	101.4	26.27	19.55	6.72
2/9/2024	101.9	31.84	24.43	7.42
2/10/2024	102.6	29.85	22.49	7.36
2/11/2024	103.3	27.99	20.64	7.36
2/12/2024	103.7	26.21	18.86	7.36
2/13/2024	104.1	20.49	13.12	7.37
2/14/2024	104.7	15.14	7.78	7.36
2/15/2024	105.2	16.22	9.11	7.11
2/16/2024	105.2	19.05	11.63	7.41
2/17/2024	105.4	16.42	9.06	7.36
2/18/2024	105.8	13.84	6.47	7.36
2/19/2024	106.3	5.94	5.77	0.17
2/20/2024	106.5	6.56	6.40	0.16
2/21/2024	106.6	6.02	5.86	0.16
2/22/2024	106.4	5.86	5.71	0.15
2/23/2024	106.0	5.33	5.20	0.14
2/24/2024	106.0	4.94	4.80	0.14
2/25/2024	106.1	4.47	4.34	0.14
2/26/2024	106.3	3.94	3.80	0.14
2/27/2024	106.4	3.90	3.81	0.09
2/28/2024	106.0	4.20	4.10	0.10
2/29/2024	105.5	5.17	5.07	0.10
3/1/2024	105.7	3.93	3.83	0.10
3/2/2024	106.3	3.98	3.88	0.11
3/3/2024	106.5	4.03	3.92	0.11
3/4/2024	106.8	3.09	3.03	0.06
3/5/2024	107.7	1.82	1.75	0.07

Table 4-4. VOC Mass Removal

Date	TTZ Average (°C)	Total Mass Removed (lbs/day)	Total Vapor Mass Removed (lbs/day)	Total Liquid Mass Removed (lbs/day)
3/6/2024	107.9	1.40	1.34	0.07
3/7/2024	108.1	1.65	1.58	0.07
3/8/2024	107.8	1.68	1.62	0.06
3/9/2024	107.4	1.85	1.79	0.06
3/10/2024	106.8	1.86	1.80	0.06
3/11/2024	106.3	1.95	1.87	0.08
3/12/2024	106.3	1.88	1.81	0.06
3/13/2024	106.4	2.69	2.63	0.06
3/14/2024	107.0	1.28	1.21	0.07
3/15/2024	107.3	2.86	2.79	0.07
3/16/2024	106.6	2.92	2.85	0.07
3/17/2024	106.3	2.73	2.66	0.07
3/18/2024	106.0	2.54	2.47	0.07
3/19/2024	105.8	3.87	3.81	0.07
3/20/2024	105.7	3.75	3.69	0.07
3/21/2024	105.5	4.37	4.30	0.06
3/22/2024	105.4	5.37	5.32	0.05
3/23/2024	105.2	4.24	4.18	0.06
3/24/2024	105.0	3.28	3.22	0.06
3/25/2024	105.0	2.70	2.66	0.04
3/26/2024	105.0	3.21	3.17	0.04
3/27/2024	105.0	2.65	2.60	0.04
3/28/2024	104.9	2.41	2.37	0.04
3/29/2024	105.1	2.54	2.49	0.05
3/30/2024	105.5	2.53	2.49	0.04
3/31/2024	105.9	2.46	2.42	0.04
4/1/2024	105.8	1.78	1.73	0.06
4/2/2024	105.3	1.68	1.61	0.07
4/3/2024	104.7	2.33	2.32	0.01
4/4/2024	104.0	2.75	2.74	0.01
4/5/2024	103.8	1.89	1.88	0.01
4/6/2024	103.4	1.76	1.74	0.03
4/7/2024	103.5	1.63	1.61	0.03
4/8/2024	103.6	0.07	0.04	0.02
4/9/2024	103.8	0.08	0.05	0.03
4/10/2024	105.0	0.10	0.04	0.06
4/11/2024	102.2	0.16	0.09	0.07
4/12/2024	106.1	0.15	0.07	0.08
4/13/2024	107.2	0.16	0.08	0.08
4/14/2024	107.8	0.16	0.08	0.08
4/15/2024	108.5	1.41	1.36	0.05
4/16/2024	108.6	2.13	2.08	0.05
4/17/2024	107.5	1.83	1.77	0.05
4/18/2024	108.5	1.78	1.73	0.05
4/19/2024	107.8	1.49	1.44	0.05
4/20/2024	105.9	1.37	1.33	0.04
4/21/2024	106.2	1.27	1.23	0.04
4/22/2024	107.2	1.87	1.81	0.06

Table 4-4. VOC Mass Removal

Date	TTZ Average (°C)	Total Mass Removed (lbs/day)	Total Vapor Mass Removed (lbs/day)	Total Liquid Mass Removed (lbs/day)
4/23/2024	107.3	5.19	5.11	0.08
4/24/2024	106.4	4.50	4.43	0.07
4/25/2024	105.4	20.79	20.71	0.08
4/26/2024	104.5	18.35	18.28	0.07
4/27/2024	103.9	13.15	13.07	0.08
4/28/2024	103.3	7.84	7.76	0.08
4/29/2024	102.7	2.42	2.35	0.08
4/30/2024	102.4	2.40	2.37	0.03
5/1/2024	102.1	4.63	4.60	0.03
5/2/2024	101.3	0.97	0.94	0.03
5/3/2024	100.6	1.31	1.28	0.03
5/4/2024	100.3	1.21	1.18	0.03
5/5/2024	99.6	1.12	1.09	0.03
5/6/2024	98.7	1.03	1.00	0.03
5/7/2024	98.4	0.51	0.50	0.00
5/8/2024	97.7	1.11	1.11	0.00
5/9/2024	97.5	0.58	0.58	0.00
5/10/2024	96.7	0.22	0.22	0.00
5/11/2024	96.7	0.23	0.23	0.00
5/12/2024	96.2	0.24	0.24	0.00
5/13/2024	95.7	0.24	0.24	0.00
5/14/2024	95.0	0.17	0.17	0.00
5/15/2024	94.6	0.13	0.13	0.00
5/16/2024	*TMPs Turned off on 5/15/24	0.12	0.12	0.00
5/17/2024		0.12	0.12	0.00
5/18/2024		0.07	0.07	0.00
5/19/2024		0.04	0.04	0.00
5/20/2024		0.01	0.01	0.00
5/21/2024		0.01	0.01	0.00

Notes:
°C = Degrees Celsius
Lb = Pound(s)
TMP = Temperature monitoring point
TTZ = Target treatment zone

Table 4-5. Major's Indoor Air Monitoring Data

	Location ID	MAJOR IA-01	MAJOR IA-02	MAJOR IA-03	MAJOR IA-04	MAJOR IA-05	MAJOR IA-06	MAJOR IA-07	MAJOR IA-08	MAJOR IA-09	MAJOR IA-10	MAJOR IA-11	MAJOR IA-12
	Sample Name	[illegible] MAJOR IA-01 [illegible]	[illegible] Majors IA-02 [illegible]	[illegible] Majors IA-03-01-24	[illegible] Majors IA-02-[illegible]	[illegible] Majors IA-02-[illegible]	[illegible] Majors IA-05-[illegible]	[illegible] Majors IA-02-[illegible]	[illegible] Majors IA-02-[illegible]	[illegible] Majors IA-02-01[illegible]	[illegible] Majors IA-04-04-24	[illegible] Majors IA-04-11-24	[illegible] Majors IA-03-01-24
	Sample Date	12/6/2023	12/6/2023	1/3/2024	1/4/2024	1/11/2024	1/8/2024	1/10/2024	4/5/2024	4/3/2024	4/4/2024	4/10/2024	4/3/2024
	Analytical Method	VOA_EPA_TO-17	VOA_EPA_TO-17	VOA_EPA_TO-17	VOA_EPA_TO-17	VOA_EPA_TO-17	VOA_EPA_TO-17	VOA_EPA_TO-17	VOA_EPA_TO-17	VOA_EPA_TO-17	VOA_EPA_TO-17	VOA_EPA_TO-17	VOA_EPA_TO-17
Analyte	Unit	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
1,1,1-Trichloroethane	µg/m³	< 0.10 U	0.2 J	< 0.107 U	< 0.103 U	< 0.0281 U	< 0.103 U	< 0.103 U	< 0.103 U	< 0.103 U	< 0.103 U	< 0.0281 U	< 0.107 U
1,1,2-Trichloroethane	µg/m³	< 0.10 U	< 0.103 U	< 0.109 UC	< 0.103 U	< 0.0281 U	< 0.103 UC	< 0.103 UC	< 0.103 U	< 0.103 UC	< 0.103 UC	< 0.103 UC	< 0.109 UC
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/m³	< 0.10 U	< 0.103 U	< 0.103 UC	< 0.103 U	< 0.0281 U	< 0.103 UC	0.607 CJ	0.128 J	< 0.0294 UC	< 0.0294 UC	< 0.103 UC	< 0.103 UC
1,1-Dichloroethane	µg/m³	< 0.10 U	< 0.0809 U	< 0.105 UC	< 0.0809 U	< 0.0279 U	< 0.0809 UC	< 0.0809 UC	< 0.0809 U	< 0.0809 UC	< 0.0809 UC	< 0.105 UC	< 0.0845 UC
1,1-Dichloroethene (1,1-Dichloroethylene)	µg/m³	< 0.01 U	< 0.20 U	< 0.20 UC	< 0.20 U	< 0.0492 U	< 0.20 UC	< 0.20 UC	< 0.20 U	< 0.20 UC	< 0.20 UC	< 0.20 UC	< 0.20 UC
1,2,4-Trichlorobenzene	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/m³	0.81	2.3	2.1	1.9	1.4	1.9	0.78	0.81	1.2	4.99	1.9	2.1
1,2-Dibromoethane (EDB)	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/m³	< 0.10 U	< 0.806 U	< 0.840 UC	< 0.806 U	< 0.0844 U	< 0.806 UC	< 0.806 UC	< 0.806 U	< 0.0844 UC	< 0.0844 UC	< 0.806 UC	< 0.903 UC
1,2-Dichloroethane	µg/m³	3.5	0.70	3.8	0.61	0.73	1.4	1.3	1.3	3.0	1.7	2.4	2.9
1,2-Dichloropropane	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorotetrafluoroethane (Freon 114)	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	µg/m³	0.31	0.99	0.81 C	0.82	0.42	0.81	0.24 C	0.28	0.34 C	0.811	0.84 C	0.81 C
1,3-Butadiene	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/m³	< 0.10 U	< 0.804 U	< 0.841 UC	< 0.804 U	< 0.0841 U	< 0.804 UC	< 0.804 UC	< 0.804 U	< 0.0841 UC	< 0.0841 UC	< 0.841 UC	< 0.901 UC
1,4-Dichlorobenzene	µg/m³	< 0.10 U	0.830 J	< 0.38 U	0.826 J	< 0.0841 U	< 0.688 U	< 0.688 U	0.957 J	0.593 J	0.641 J	< 0.38 U	< 0.38 U
1,4-Dioxane	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloropropane	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
4-Ethyltoluene	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	µg/m³	0.49 J	0.48	0.24 J	0.31	0.72	0.38	0.28	0.32	0.31	0.38	0.38	0.28 J
Benzyl Chloride	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	µg/m³	0.20	0.24	0.24	0.21	0.14	0.20	0.24	0.26	0.21	0.21	0.26	0.24
Chlorobenzene	µg/m³	< 0.10 U	0.0571	< 0.0789 U	0.0841	< 0.0281 U	0.0841	< 0.0751 U	< 0.0751 U	< 0.0751 U	< 0.0751 U	< 0.0789 U	< 0.0789 U
Chloroform	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/m³	0.127	0.585	0.55	0.505 J	0.507 J	0.688	0.879	0.975	0.581	0.53	0.77	0.12
Chloromethane	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/m³	< 0.10 U	< 0.0791 U	< 0.103 UC	< 0.0809 U	< 0.0279 U	< 0.688 UC	< 0.0809 UC	0.0371	< 0.0264 UC	< 0.0809 UC	< 0.0809 UC	< 0.0845 UC
cis-1,3-Dichloropropene	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/m³	0.20	0.28	0.0887 J	0.11	0.41	0.11	0.18	0.908	0.16	0.21	0.11	0.0887 J
Dibromochloromethane	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/m³	3.8	0.79	3.8	0.381 J	0.90	3.8	3.5	7.3	31	11	2.4	1.8
Ethyl Acetate	µg/m³	0.89	0.28	0.26	0.211 J	0.13 J	2.4	0.48	0.95	0.35	0.31	3.3	0.25
Ethyl Benzene	µg/m³	0.72	1.2	2.8	0.95	0.31	1.3	0.35	0.51	0.35	0.39	0.83	2.8
Heptane	µg/m³	0.40	2.0	0.41	0.33	1.6	0.41	0.41	0.68	0.44	0.41	0.61	0.41
Isopropanol	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Hexane	µg/m³	0.57	0.69	0.21	0.18	1.1	0.61	0.38	0.35	0.11	0.33	0.41	0.21
Isopropanol	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylene	µg/m³	3.3	1.8	3.3	3.3	1.8	3.4	3.1	0.98	3.5	0.84	3.3	3.3
Methyl Ethyl Ketone	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Methyl Ethyl Ketone	µg/m³	3.1	0.59	1.3	0.55	0.30	1.3	0.97	1.1	1.3	1.2	1.8	1.3
Methyl Isobutyl Ketone	µg/m³	< 0.20 U	1.1	< 0.38 U	0.89	0.369 J	0.31	0.311	0.141	< 0.153 U	< 0.153 U	0.19	< 0.165 U
Methyl Tert-Butyl Ether (MTBE)	µg/m³	< 0.10 U	< 0.0791 U	< 0.0885 U	< 0.0577 U	< 0.0279 U	< 0.0577 U	< 0.0577 U	< 0.0577 U	< 0.0577 U	< 0.0577 U	< 0.0885 U	< 0.0885 U
Methylene Chloride	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/m³	0.213 J	1.1	0.58	1.0	0.48	0.88	0.88	< 0.20 U	0.17	0.28 J	0.81	0.88
n-Propylbenzene	µg/m³	0.383 J	0.85	0.89	0.25	0.13	0.89	0.34	0.25	0.11	0.48	0.40	0.89
o-Xylene	µg/m³	0.50	0.79	2.1	0.59	0.32	1.7	0.55	0.46	0.61	0.49	0.82	2.1
Styrene	µg/m³	0.362 J	0.16	2.0	0.0871 J	0.12	1.9	1.0	1.6	1.0	1.2	1.0	2.0
tert-Butylmethyl Ether (Tetrachloroethylene)	µg/m³	0.57	0.71	0.32	0.50	0.13	1.0	7.2	2.0	0.81	0.34	0.40	0.32
Tetrachloroethene	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	µg/m³	1.8	2.6	1.6	2.0	1.8	2.4	2.4	1.5	1.6	1.2	1.8	1.8
trans-1,2-Dichloroethene	µg/m³	< 0.10 U	< 0.206 U	< 0.13 UC	< 0.17 U	< 0.0492 U	< 0.171 UC	< 0.17 UC	< 0.17 U	< 0.171 UC	< 0.17 UC	< 0.206 UC	< 0.13 UC
trans-1,3-Dichloropropene	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (Trichloroethylene)	µg/m³	0.483 J	0.0881	0.0787	0.0871 J	< 0.0279 U	0.11	0.10	0.19	0.083	0.043 J	0.093	0.0787
Trichlorofluoromethane (Freon 11)	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/m³	--	--	--	--	--	--	--	--	--	--	--	--

Units:
-- = Not analyzed
µg/m³ = Microgram(s) per cubic meter
C = Reduced concentration due to calculated sampling rate
J = Analyte was positively identified, but the associated numerical value is estimated.
U = Analyte was analyzed for but not detected.

Table 4-6a. System Liquid Midfluent and Effluent Monitoring Data

Analyte	CAS	Unit	Liquid Effluent 12/1/2023	Liquid Midfluent 12/20/2023	Liquid Midfluent 1/8/2024	Liquid Effluent 1/8/2024	Liquid Midfluent 1/22/2024	Liquid Midfluent 2/5/2024	Liquid Effluent 2/5/2024	Liquid Midfluent 2/19/2024	Liquid Midfluent 3/4/2024	Liquid Effluent 3/4/2024	Liquid Midfluent 3/18/2024	Liquid Midfluent 4/15/2024	Liquid Midfluent 4/30/2024	Liquid Effluent 4/30/2024
VOCs (EPA Rh68)																
1,1,1,2-Tetrachloroethane	630-20-6	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	71-55-6	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/l	6.0 U	3.0 U	3.0 U	3.0 U	3.0 U	30 U	3.0 U	12 U	6.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
1,1,2-Trichloroethane	79-00-5	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	75-34-3	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	75-35-4	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	7.9	10	1.0 U	1.0 U	2.0	8.4	1.0 U
1,1-Dichloropropene	563-58-6	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	3.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	87-61-6	µg/l	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	8.0 U	4.0 U	2.0 U	2.0 U	5.0 U	4.0 U	4.0 U
1,2,3-Trichloropropane	96-18-4	µg/l	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	25 U	2.0 U	10 U	5.0 U	2.2 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	120-82-1	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	95-63-6	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	96-12-8	µg/l	10 U	5.0 U	5.0 U+	5.0 U+	5.0 U	50 U	5.0 U	20 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	95-50-1	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	107-06-2	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	78-87-5	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	108-67-8	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	541-73-1	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropane	142-28-9	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	106-46-7	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,2-Dichloropropane	594-20-7	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	78-93-3	µg/l	30 U	15 U	15 U	15 U	15 U	150 U	15 U	60 U	30	15 U	15 U	15 U	10 U	10 U
2-Chlorotoluene	95-49-8	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	591-78-6	µg/l	10 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	5.0 U	20 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
3-Chloro-1-propene	107-05-1	µg/l	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	8.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
4-Chlorotoluene	106-43-4	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Isopropyltoluene	99-87-6	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone (MIBK)	108-10-1	µg/l	10 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	5.0 U	20 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	67-64-1	µg/l	30 U	15 U	15 U	15 U	510	150 U	15 U	360	330	30	160	820	86	15 U
Acrylonitrile	107-13-1	µg/l	40 U	20 U	20 U	20 U	20 U	200 U	20 U	80 U	40 U	20 U	20 U	20 U	20 U	20 U
Benzene	71-43-2	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromobenzene	108-86-1	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	75-25-2	µg/l	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	8.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	74-83-9	µg/l	10 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	5.0 U	20 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	75-15-0	µg/l	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	8.0 U	25	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon tetrachloride	56-23-5	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	108-90-7	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobromomethane	74-97-5	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	124-48-1	µg/l	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	8.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	75-00-3	µg/l	8.0 U	4.0 U	4.0 U	4.0 U	4.0 U	40 U	4.0 U	16 U	8.0 U	4.0 U	4.0 U	4.0 U	2.0 U	2.0 U
Chloroform	67-66-3	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	74-87-3	µg/l	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	8.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	156-59-2	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	5.8	38	1.0 U	340	380	3.1	4.4	47	54	1.0 U
cis-1,3-Dichloropropene	10061-01-5	µg/l	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	8.0 U	4.0 U	2.0 U	2.0 U	2.0 U+	1.0 U	1.0 U
Cyclohexane	110-82-7	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromomethane	74-95-3	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	75-27-4	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorofluoromethane	75-71-8	µg/l	6.0 U	3.0 U	3.0 U	3.0 U	3.0 U	30 U	3.0 U	12 U	6.0 U	3.0 U	3.0 U	3.0 U	2.0 U	2.0 U
Ethyl ether	60-29-7	µg/l	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	8.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethyl methacrylate	97-63-2	µg/l	6.0 U	3.0 U	3.0 U	3.0 U	3.0 U	30 U	3.0 U	12 U	6.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Ethylbenzene	100-41-4	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylene Dibromide	106-93-4	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	87-68-3	µg/l	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	8.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexane	110-54-3	µg/l	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	8.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Iodomethane	74-88-4	µg/l	10 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	5.0 U	20 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	98-82-8	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	79-20-9	µg/l	10 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	5.0 U	20 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	1634-04-4	µg/l	10 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	5.0 U	20 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	108-87-2	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	75-09-2	µg/l	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	8.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
m-Xylene & p-Xylene	179601-23-1	µg/l	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	8.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Naphthalene	91-20-3	µg/l	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	8.0 U	4.0 U	2.0 U	2.0 U	3.0 U	3.0 U	3.0 U
n-Butylbenzene	104-51-8	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
N-Propylbenzene	103-65-1	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	95-47-6	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
sec-Butylbenzene	135-98-8	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	100-42-5	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
tert-Butylbenzene	98-06-6	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	127-18-4	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	8.7	540	1.0 U	230	230	1.0 U	1.0 U	38	67	1.0 U
Tetrahydrofuran	109-99-9	µg/l	14 U	7.0 U	7.0 U	7.0 U	7.0 U	70 U	7.0 U	28 U	14 U	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U
Toluene	108-88-3	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	156-60-5	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	4.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	10061-02-6	µg/l	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	8.0 U	4.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Trichloroethene	79-01-6	µg/l	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	28	1.0 U	120	98	1.0 U	1.0 U	6.3	3.6	1.0 U
Trichlorofluoromethane	75-69-4	µg/l	8.0 U	4.0 U	4.0 U	4.0 U	4.0 U	40 U	4.0 U	16 U	8.0 U	4.0 U	4.0 U	4.0 U	2.0 U	2.0 U
Vinyl acetate	108-05-4	µg/l	6.0 U	3.0 U+	3.0 U	3.0 U	3.0 U	30 U	3.0 U	12 U	6.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Vinyl chloride	75-01-4	µg/l	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	2.0 U	8.0 U	10	3.6	6.8	4.7	3.9	5.8

Notes:
µg = Microgram(s)
EPA = U.S. Environmental Protection Agency
l = Liter
VOC = Volatile organic compound
U = Compound not detected at reporting limit shown
J = Estimated concentration; below the reporting limit but above the Method Detection Limit (MDL)
Bolded cells report chemical detections

Table 4-6b. System Vapor Effluent Monitoring Data

Analytes	CAS	Unit	VGAC Effluent 12/13/2023		VGAC Effluent 1/8/2024		VGAC Effluent 2/5/2024		VGAC Effluent 3/4/2024		VGAC Effluent 3/18/2024	
VOCs (EPA TO-15)												
Freon 12	75-71-8	µg/m³	3.0	U	2.8	J	3.4	U	2.6	J	1.2	J
Freon 114	76-14-2	µg/m³	0.85	U	0.92	U	0.97	U	1.8	U	0.92	U
Chloromethane	74-87-3	µg/m³	5.6		20		71		100		31	
Vinyl Chloride	75-01-4	µg/m³	0.31	U	74		0.36	U	24		8.9	
1,3-Butadiene	106-99-0	µg/m³	0.27	U	0.29	U	0.31	U	1.6		0.29	U
Bromomethane	74-83-9	µg/m³	24	U	3.6	J	2.2	J	50	U	25	U
Chloroethane	75-00-3	µg/m³	1.6	U	1.7	U	1.8	U	3.4	U	1.7	U
Freon 11	75-69-4	µg/m³	0.68	U	0.74	U	0.78	U	1.4	J	0.33	J
Ethanol	64-17-5	µg/m³	1.4	J	2.4	J	2.6	J	10	U	2.9	J
Freon 113	76-13-1	µg/m³	0.94	U	1.0	U	1.1	U	0.7	J	1.0	U
1,1-Dichloroethene	75-35-4	µg/m³	0.48	U	0.38	J	0.55	U	65		4.3	
Acetone	67-64-1	µg/m³	68		17		16		140		18	
2-Propanol	67-63-0	µg/m³	11		1.0	J	6.8	U	13	U	6.4	U
Carbon Disulfide	75-15-0	µg/m³	10	U	1.3	J	0.12	J	100		20	J
3-Chloropropene	107-05-1	µg/m³	1.9	U	2.1	U	2.2	U	4.0	U	2.0	U
Methylene Chloride	75-09-2	µg/m³	2.1	U	0.66	J	2.4	U	1.4	J	0.42	J
Methyl tert-butyl ether	1634-04-4	µg/m³	0.44	U	0.48	U	0.50	U	0.93	U	0.47	U
trans-1,2-Dichloroethene	156-60-5	µg/m³	0.48	U	0.52	U	0.55	U	1.0		0.52	U
Hexane	110-54-3	µg/m³	2.1	U	2.3	U	2.4	U	2.1	J	2.3	U
1,1-Dichloroethane	75-34-3	µg/m³	0.49	U	0.53	U	0.56	U	1.0	U	0.53	U
2-Butanone (Methyl Ethyl Ketone)	78-93-3	µg/m³	4.1	J	2.0	J	1.7	J	7.1	J	0.88	J
cis-1,2-Dichloroethene	156-59-2	µg/m³	0.48	U	0.59		0.55	U	48		2.5	
Tetrahydrofuran	109-99-9	µg/m³	0.71	J	1.9	U	2.2		3.8	U	1.9	U
Chloroform	67-66-3	µg/m³	0.60	U	0.64	U	0.68	U	30		3.2	
1,1,1-Trichloroethane	71-55-6	µg/m³	0.66	U	0.72	U	0.76	U	1.4	U	0.71	U
Cyclohexane	110-82-7	µg/m³	2.1	U	2.3	U	2.4	U	1.8	J	0.50	J
Carbon Tetrachloride	56-23-5	µg/m³	0.77	U	0.83	U	0.87	U	1.6	U	0.82	U
2,2,4-Trimethylpentane	540-84-1	µg/m³	2.8	U	3.1	U	3.2	U	6.0	U	3.0	U
Benzene	71-43-2	µg/m³	0.22	J	0.33	J	0.16	J	0.53	J	0.11	J
1,2-Dichloroethane	107-06-2	µg/m³	0.49	U	0.53	U	0.56	U	1.0	U	0.53	U
Heptane	142-82-5	µg/m³	2.5	U	2.7	U	2.8	U	5.3	U	2.7	U
Trichloroethene	79-01-6	µg/m³	0.66	U	0.44	J	0.75	U	0.80	J	0.70	U
1,2-Dichloropropane	78-87-5	µg/m³	0.56	U	0.61	U	0.64	U	1.2	U	0.60	U
1,4-Dioxane	123-91-1	µg/m³	2.2	U	2.4	U	0.1	J	4.6	U	2.4	U
Bromodichloromethane	75-27-4	µg/m³	0.82	U	0.88	U	0.93	U	1.7	U	0.88	U
cis-1,3-Dichloropropene	10061-01-5	µg/m³	0.55	U	0.60	U	0.63	U	1.2	U	0.59	U
4-Methyl-2-pentanone	108-10-1	µg/m³	20		3.2		1.0		18		0.29	J
Toluene	108-88-3	µg/m³	6.0		1.0	J	0.27	J	2.0	J	0.19	J
trans-1,3-Dichloropropene	10061-02-6	µg/m³	0.55	U	0.60	U	0.63	U	1.2	U	0.59	U
1,1,2-Trichloroethane	79-00-5	µg/m³	0.66	U	0.72	U	0.76	U	1.4	U	0.71	U
Tetrachloroethene	127-18-4	µg/m³	0.39	J	0.50	J	18		19		3.9	
2-Hexanone	591-78-6	µg/m³	2.5	U	2.7	U	2.8	U	5.3	U	2.7	U
Dibromochloromethane	124-48-1	µg/m³	1.0	U	1.1	U	1.2	U	2.2	U	1.1	U
1,2-Dibromoethane (EDB)	106-93-4	µg/m³	0.94	U	1.0	U	1.1	U	2.0	U	1.0	U
Chlorobenzene	108-90-7	µg/m³	0.56	U	0.61	U	0.64	U	1.2	U	0.60	U
Ethyl Benzene	100-41-4	µg/m³	5.7		1.2		0.41	J	3.7		0.16	J
m,p-Xylene	179601-23-1	µg/m³	44		4.5		1.7		16		0.48	J
o-Xylene	95-47-6	µg/m³	15		1.4		0.54	J	6.4		0.53	U
Styrene	100-42-5	µg/m³	0.52	U	0.56	U	0.59	U	1.1	U	0.56	U
Bromoform	75-25-2	µg/m³	1.3	U	1.4	U	1.4	U	2.6	U	1.4	U
Cumene	98-82-8	µg/m³	0.14	J	0.65	U	0.040	J	1.3	U	0.64	U
1,1,2,2-Tetrachloroethane	79-34-5	µg/m³	0.84	U	0.91	U	0.95	U	1.8	U	0.90	U
Propylbenzene	103-65-1	µg/m³	0.60	U	0.65	U	0.68	U	1.3	U	0.64	U
4-Ethyltoluene	622-96-8	µg/m³	0.18	J	0.65	U	0.68	U	1.3	U	0.64	U
1,3,5-Trimethylbenzene	108-67-8	µg/m³	0.12	J	0.65	U	0.68	U	1.3	U	0.64	U
1,2,4-Trimethylbenzene	95-63-6	µg/m³	0.32	J	0.65	U	0.68	U	0.22	J	0.64	U
1,3-Dichlorobenzene	541-73-1	µg/m³	0.73	U	0.79	U	0.84	U	1.5	U	0.79	U
1,4-Dichlorobenzene	106-46-7	µg/m³	0.73	U	0.79	U	0.84	U	1.5	U	0.79	U
alpha-Chlorotoluene	100-44-7	µg/m³	0.63	U	0.68	U	0.72	U	1.3	U	0.68	U
1,2-Dichlorobenzene	95-50-1	µg/m³	0.73	U	0.79	U	0.84	U	1.5	U	0.79	U
1,2,4-Trichlorobenzene	120-82-1	µg/m³	4.5	U	4.9	U	5.2	U	10	U	4.9	U
Hexachlorobutadiene	87-68-3	µg/m³	6.5	U	7.0	U	7.4	U	14	U	7.0	U
Naphthalene	91-20-3	µg/m³	0.38	J	1.4	U	1.4	U	0.11	J	1.4	U

Notes:
µg = Microgram(s)
EPA = U.S. Environmental Protection Agency
m = Meter(s)
VGAC = Vapor phase granular activated carbon
VOC = Volatile organic compound
U = Compound not detected at reporting limit shown
J = Estimated concentration; below the reporting limit but above the Method Detection Limit (MDL)

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Table 4-7. Utility Usage

Utility Estimates and Requirements	Average Rate	Total
Power usage, TCH	673 kW	2,343,146 kWh
Power usage, SEE (boiler), natural gas	7,080 scfh	15,463,000 cf
Steam injection rate	564 lb/hr	1,233,720 lb
Power usage, treatment system	58 kW	239,854 kWh
Power usage, total	626 kW	2,583,000 kWh
Wellfield liquid discharge, condensate, and entrained water	6.2 gpm	1,524,255gallons
Process blowdown	0.9 gpm	223,225 gallons
Total liquid discharge[1]	7.1 gpm	1,747,480 gallons
Cooling tower makeup water	4.1 gpm	1,020,430 gallons
Boiler makeup water	1.6 gpm	205,219 gallons
Total makeup water	5.7 gpm	1,225,649 gallons

Notes:
[1]Total liquid discharge is the total amount of water discharged to the City of Jacksonville, North Carolina municipal sewer system, and is the sum of process blowdown water and wellfield liquid discharge, condensate, and entrained water.
cf = Cubic foot/feet
gpm = Gallon(s) per minute
kW = Kilowatt
kWh = Kilowatt-hour
lb/hr = Pound(s) per hour
SEE = Steam enhanced extraction
scfh = Standard cubic feet per hour
TCH = Thermal conduction heating

Table 4-8. Post-ISTR Confirmation Soil Boring Locations

Boring ID	Total Depth (ft bgs)	Number of Sample Intervals	Treatment Zone
SB-01	20	4	Zone 1 (0 – 20 ft bgs)
SB-02	30	6	Zone 2 (0 – 30 ft bgs)
SB-03	50	10	Zone 4 (0 – 50 ft bgs)
SB-04	50	10	Zone 4 (0 – 50 ft bgs)
SB-05	25[1]	5[1]	Zone 3 (0 – 40 ft bgs)
SB-06	20	4	Zone 1 (0 – 20 ft bgs)

Notes:
[1]SB-05 was installed to 25 ft bgs and not the target depth of 40 ft bgs due to high heat and pressure encountered during drilling. As such, only 5 soil samples were collected from SB-05 instead of 8.
bgs = Below ground surface
ft = Foot/feet
ID = Identification

Table 4-9. Post-ISTR Confirmation Soil Boring Results

Soil Boring				SB-6				SB-4										
Analyte	CAS	Unit	Remedial Goal	POST-SO-SB6-05-04022024 4/2/2024	POST-SO-SB6-10-04022024 4/2/2024	POST-SO-SB6-15-04022024 4/2/2024	POST-SO-SB6-20-04022024 4/2/2024	POST-SO-SB4-05-04032024 4/3/2024	POST-SO-SB4-10-04032024 4/3/2024	POST-SO-SB4-15-04032024 4/3/2024	DUP-SO-1-04032024 Parent: SB4-15 4/3/2024	POST-SO-SB4-20-04032024 4/3/2024	POST-SO-SB4-25-04032024 4/3/2024	POST-SO-SB4-30-04032024 4/3/2024	POST-SO-SB4-35-04032024 4/3/2024	POST-SO-SB4-40-04032024 4/3/2024	POST-SO-SB4-45-04032024 4/3/2024	POST-SO-SB4-50-04032024 4/3/2024
VOCs (EPA TO-15)																		
1,1,1,2-Tetrachloroethane	630-20-6	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,1,1-Trichloroethane	71-55-6	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/kg		19 UH	22 UH	20 UH	19 UH	30 U	23 U	21 U	24 UH	21 U	21 U	24 U	26 U	25 U	26 U	28 U
1,1,2-Trichloroethane	79-00-5	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,1-Dichloroethane	75-34-3	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,1-Dichloroethene	75-35-4	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,1-Dichloropropene	563-58-6	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,2,3-Trichlorobenzene	87-61-6	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,2,3-Trichloropropane	96-18-4	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,2,4-Trichlorobenzene	120-82-1	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,2,4-Trimethylbenzene	95-63-6	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,2-Dibromo-3-Chloropropane	96-12-8	µg/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	12 UH	11 U	11 U	12 U	13 U	12 U	13 U	14 U
1,2-Dichlorobenzene	95-50-1	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,2-Dichloroethane	107-06-2	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,2-Dichloropropane	78-87-5	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,3,5-Trimethylbenzene	108-67-8	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,3-Dichlorobenzene	541-73-1	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,3-Dichloropropane	142-28-9	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,3-Dichloropropene, Total	542-75-6	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
1,4-Dichlorobenzene	106-46-7	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
2,2-Dichloropropane	594-20-7	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
2-Butanone (MEK)	78-93-3	µg/kg		**95 H**	22 UH	20 UH	19 UH	**57**	23 U	21 U	24 UH	21 U	21 U	24 U	26 U	25 U	26 U	28 U
2-Chlorotoluene	95-49-8	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
2-Hexanone	591-78-6	µg/kg		19 UH	22 UH	20 UH	19 UH	30 U	23 U	21 U	24 UH	21 U	21 U	24 U	26 U	25 U	26 U	28 U
3-Chloro-1-propene	107-05-1	µg/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	12 UH	11 U	11 U	12 U	13 U	12 U	13 U	14 U
4-Chlorotoluene	106-43-4	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
4-Isopropyltoluene	99-87-6	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
4-Methyl-2-pentanone (MIBK)	108-10-1	µg/kg		19 UH	22 UH	20 UH	19 UH	30 U	23 U	21 U	24 UH	21 U	21 U	24 U	26 U	25 U	26 U	28 U
Acetone	67-64-1	µg/kg		**590 H**	**120 H**	**85 H**	76 UH	**480**	**180**	**110**	**110 H**	**160**	84 U	98 U	100 U	99 U	100 U	110 U
Benzene	71-43-2	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Bromobenzene	108-86-1	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Bromoform	75-25-2	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 UF1	6.5 U	6.2 U	6.5 U	7.1 U
Bromomethane	74-83-9	µg/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	12 UH	11 U	11 U	12 UF1F2	13 U	12 U	13 U	14 U
Carbon disulfide	75-15-0	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Carbon tetrachloride	56-23-5	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Chlorobenzene	108-90-7	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Chlorobromomethane	74-97-5	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Chlorodibromomethane	124-48-1	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Chloroethane	75-00-3	µg/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	12 UH	11 U	11 U	12 UF1	13 U	12 U	13 U	14 U
Chloroform	67-66-3	µg/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	12 UH	11 U	11 U	12 U	13 U	12 U	13 U	14 U
Chloromethane	74-87-3	µg/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	12 UH	11 U	11 U	12 U	13 U	12 U	13 U	14 U
cis-1,2-Dichloroethene	156-59-2	µg/kg	410	**7.8 H**	2.7 UH	2.5 UH	2.4 UH	3.7 U	2.9 U	2.6 U	3.0 UH	2.6 U	2.6 U	3.1 U	3.2 U	3.1 U	3.3 U	3.5 U
cis-1,3-Dichloropropene	10061-01-5	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Cyclohexane	110-82-7	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Dibromomethane	74-95-3	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Dichlorobromomethane	75-27-4	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Dichlorodifluoromethane	75-71-8	µg/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	12 UH	11 U	11 U	12 UF1F2	13 U	12 U	13 U	14 U
Ethyl ether	60-29-7	µg/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	12 UH	11 U	11 U	12 U	13 U	12 U	13 U	14 U
Ethyl methacrylate	97-63-2	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Ethylbenzene	100-41-4	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Ethylene Dibromide	106-93-4	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Hexachlorobutadiene	87-68-3	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 UF1	6.5 U	6.2 U	6.5 U	7.1 U
Hexane	110-54-3	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Iodomethane	74-88-4	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Isopropylbenzene	98-82-8	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Methyl acetate	79-20-9	µg/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	12 UH	11 U	11 U	12 U	13 U	12 U	13 U	14 U
Methyl tert-butyl ether	1634-04-4	µg/kg		19 UH	22 UH	20 UH	19 UH	30 U	23 U	21 U	24 UH	21 U	21 U	24 U	26 U	25 U	26 U	28 U
Methylcyclohexane	108-87-2	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Methylene Chloride	75-09-2	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
m-Xylene & p-Xylene	179601-23-1	µg/kg		2.4 UH	2.7 UH	2.5 UH	2.4 UH	3.7 U	2.9 U	2.6 U	3.0 UH	2.6 U	2.6 U	3.1 U	3.2 U	3.1 U	3.3 U	3.5 U
Naphthalene	91-20-3	µg/kg		6.3 UH	7.2 UH	6.5 UH	6.3 UH	9.8 U	7.7 U	6.9 U	7.8 UH	6.9 U	7.0 U	8.1 U	8.5 U	8.2 U	8.6 U	9.4 U
n-Butylbenzene	104-51-8	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
N-Propylbenzene	103-65-1	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
o-Xylene	95-47-6	µg/kg		2.4 UH	2.7 UH	2.5 UH	2.4 UH	3.7 U	2.9 U	2.6 U	3.0 UH	2.6 U	2.6 U	3.1 U	3.2 U	3.1 U	3.3 U	3.5 U
sec-Butylbenzene	135-98-8	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Styrene	100-42-5	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
tert-Butylbenzene	98-06-6	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Tetrachloroethene	127-18-4	µg/kg	6.5	**33 H**	5.4 UH	4.9 UH	4.8 UH	**280**	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 UF1	6.5 U	**27**	6.5 U	7.1 U
Tetrahydrofuran	109-99-9	µg/kg		19 UH	22 UH	20 UH	19 UH	30 U	23 U	21 U	24 UH	21 U	21 U	24 U	26 U	25 U	26 U	28 U
Toluene	108-88-3	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
trans-1,2-Dichloroethene	156-60-5	µg/kg		2.4 UH	2.7 UH	2.5 UH	2.4 UH	3.7 U	2.9 U	2.6 U	3.0 UH	2.6 U	2.6 U	3.1 U	3.2 U	3.1 U	3.3 U	3.5 U
trans-1,3-Dichloropropene	10061-02-6	µg/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Trichloroethene	79-01-6	µg/kg	21	**15 H**	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U
Trichlorofluoromethane	75-69-4	µg/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	12 UH	11 U	11 U	12 UF1F2	13 U	12 U	13 U	14 U
Vinyl acetate	108-05-4	µg/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	12 UH	11 U	11 U	12 U	13 U	12 U	13 U	14 U
Vinyl chloride	75-01-4	µg/kg	0.21	4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.9 UH	5.3 U	5.3 U	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U

Notes:
µg = Microgram(s)
EPA = U.S. Environmental Protection Agency
F1 = MS and/or MSD recovery exceeds control limits
F2 = MS/MSD RPD exceeds control limits
H = Sample was prepped or analyzed beyond the specified (48hr) holding time
J = Estimated concentration; below the reporting limit but above the Method Detection Limit (MDL)
kg = Kilogram(s)
VOC = Volatile organic compound
U = Compound not detected at reporting limit shown
Bolded cells represent chemical detections
Bolded and shaded cells represent exceedances of remedial goals

Table 4-9. Post-ISTR Confirmation Soil Boring Results

Analyte	CAS	Unit	Soil Boring Remedial Goal	SB-5 POST-SO-SB5-05-04032024 4/3/2024	SB-5 DUP-SO-2-04032024 Parent: SB5-05 4/3/2024	SB-5 POST-SO-SB5-10-04032024 4/3/2024	SB-5 POST-SO-SB5-15-04032024 4/3/2024	SB-5 POST-SO-SB5-20-04032024 4/3/2024	SB-5 POST-SO-SB5-25-04032024 4/3/2024	SB-1 POST-SO-SB1-05-04042024 4/4/2024	SB-1 POST-SO-SB1-10-04042024 4/4/2024	SB-1 POST-SO-SB1-15-04042024 4/4/2024	SB-1 POST-SO-SB1-20-04042024 4/4/2024	SB-2 POST-SO-SB2-05-04042024 4/4/2024	SB-2 DUP-SO-1-04042024 Parent: SB2-05 4/4/2024	SB-2 POST-SO-SB2-10-04042024 4/4/2024	SB-2 POST-SO-SB2-15-04042024 4/4/2024	SB-2 POST-SO-SB2-20-04042024 4/4/2024	SB-2 POST-SO-SB2-25-04042024 4/4/2024	SB-2 POST-SO-SB2-30-04042024 4/4/2024
VOCs (EPA TO-15)																				
1,1,1,2-Tetrachloroethane	630-20-6	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,1,1-Trichloroethane	71-55-6	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,1,2,2-Tetrachloroethane	79-34-5	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/kg		23 U	21 U	22 U	31 U	25 U	22 U	21 U	26 UF1F2	21 U	21 U	22 U	21 U	24 U	22 U	18 U	21 U	21 U
1,1,2-Trichloroethane	79-00-5	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,1-Dichloroethane	75-34-3	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,1-Dichloroethene	75-35-4	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,1-Dichloropropene	563-58-6	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,2,3-Trichlorobenzene	87-61-6	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,2,3-Trichloropropane	96-18-4	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,2,4-Trichlorobenzene	120-82-1	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,2,4-Trimethylbenzene	95-63-6	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,2-Dibromo-3-Chloropropane	96-12-8	µg/kg		12 U	10 U	11 U	16 U	12 U	11 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U	10 U
1,2-Dichlorobenzene	95-50-1	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,2-Dichloroethane	107-06-2	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,2-Dichloropropane	78-87-5	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,3,5-Trimethylbenzene	108-67-8	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,3-Dichlorobenzene	541-73-1	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,3-Dichloropropane	142-28-9	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,3-Dichloropropene, Total	542-75-6	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
1,4-Dichlorobenzene	106-46-7	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
2,2-Dichloropropane	594-20-7	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
2-Butanone (MEK)	78-93-3	µg/kg		23 U	21 U	22 U	31 U	25 U	22 U	21 U	26 UF2	21 U	21 U	22 U	**30**	24 U	22 U	18 U	21 U	21 U
2-Chlorotoluene	95-49-8	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
2-Hexanone	591-78-6	µg/kg		23 U	21 U	22 U	31 U	25 U	22 U	21 U	26 UF1F2	21 U	21 U	22 U	21 U	24 U	22 U	18 U	21 U	21 U
3-Chloro-1-propene	107-05-1	µg/kg		12 U	10 U	11 U	16 U	12 U	11 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U	10 U
4-Chlorotoluene	106-43-4	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
4-Isopropyltoluene	99-87-6	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
4-Methyl-2-pentanone (MIBK)	108-10-1	µg/kg		23 U	21 U	22 U	31 U	25 U	22 U	21 U	26 UF1F2	21 U	21 U	22 U	21 U	24 U	22 U	18 U	21 U	21 U
Acetone	67-64-1	µg/kg		93 U	83 U	88 U	130 U	99 U	90 U	85 U	100 UF1F2	83 U	**120**	**140**	**220**	95 U	**220**	**220**	84 U	84 U
Benzene	71-43-2	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Bromobenzene	108-86-1	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Bromoform	75-25-2	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Bromomethane	74-83-9	µg/kg		12 U	10 U	11 U	16 U	12 U	11 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U	10 U
Carbon disulfide	75-15-0	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Carbon tetrachloride	56-23-5	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Chlorobenzene	108-90-7	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Chlorobromomethane	74-97-5	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Chlorodibromomethane	124-48-1	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Chloroethane	75-00-3	µg/kg		12 U	10 U	11 U	16 U	12 U	11 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U	10 U
Chloroform	67-66-3	µg/kg		12 U	10 U	11 U	16 U	12 U	11 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U	10 U
Chloromethane	74-87-3	µg/kg		12 UJ	10 UJ	11 UJ	16 UJ	12 UJ	11 UJ	11 U	13 UF2	10 U	10 U	11 UJ	11 U	12 U	11 U	8.8 U	10 U	10 U
cis-1,2-Dichloroethene	156-59-2	µg/kg	410	2.9 U	2.6 U	2.7 U	3.9 U	3.1 U	2.8 U	2.7 U	3.2 UF1F2	2.6 U	2.6 U	2.7 U	2.7 U	3.0 U	2.7 U	2.2 U	2.6 U	2.6 U
cis-1,3-Dichloropropene	10061-01-5	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Cyclohexane	110-82-7	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Dibromomethane	74-95-3	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Dichlorobromomethane	75-27-4	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Dichlorodifluoromethane	75-71-8	µg/kg		12 U	10 U	11 U	16 U	12 U	11 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U	10 U
Ethyl ether	60-29-7	µg/kg		12 U	10 U	11 U	16 U	12 U	11 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U	10 U
Ethyl methacrylate	97-63-2	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Ethylbenzene	100-41-4	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Ethylene Dibromide	106-93-4	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Hexachlorobutadiene	87-68-3	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Hexane	110-54-3	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Iodomethane	74-88-4	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Isopropylbenzene	98-82-8	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Methyl acetate	79-20-9	µg/kg		12 U	10 U	11 U	16 U	12 U	11 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U	10 U
Methyl tert-butyl ether	1634-04-4	µg/kg		23 U	21 U	22 U	31 U	25 U	22 U	21 U	26 UF1F2	21 U	21 U	22 U	21 U	24 U	22 U	18 U	21 U	21 U
Methylcyclohexane	108-87-2	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Methylene Chloride	75-09-2	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
m-Xylene & p-Xylene	179601-23-1	µg/kg		2.9 U	2.6 U	2.7 U	3.9 U	3.1 U	2.8 U	2.7 U	3.2 UF1F2	2.6 U	2.6 U	2.7 U	2.7 U	3.0 U	2.7 U	2.2 U	2.6 U	2.6 U
Naphthalene	91-20-3	µg/kg		7.7 U	6.9 U	7.2 U	10.0 U	8.2 U	7.4 U	7.0 U	8.5 UF1F2	6.8 U	6.8 U	7.2 U	7.0 U	7.8 U	7.1 U	5.8 U	6.9 U	6.9 U
n-Butylbenzene	104-51-8	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
N-Propylbenzene	103-65-1	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
o-Xylene	95-47-6	µg/kg		2.9 U	2.6 U	2.7 U	3.9 U	3.1 U	2.8 U	2.7 U	3.2 UF1F2	2.6 U	2.6 U	2.7 U	2.7 U	3.0 U	2.7 U	2.2 U	2.6 U	2.6 U
sec-Butylbenzene	135-98-8	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Styrene	100-42-5	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
tert-Butylbenzene	98-06-6	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Tetrachloroethene	127-18-4	µg/kg	0.5	5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Tetrahydrofuran	109-99-9	µg/kg		23 U	21 U	22 U	31 U	25 U	22 U	21 U	26 UF1F2	21 U	21 U	22 U	21 U	24 U	22 U	18 U	21 U	21 U
Toluene	108-88-3	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
trans-1,2-Dichloroethene	156-60-5	µg/kg		2.9 U	2.6 U	2.7 U	3.9 U	3.1 U	2.8 U	2.7 U	3.2 UF1F2	2.6 U	2.6 U	2.7 U	2.7 U	3.0 U	2.7 U	2.2 U	2.6 U	2.6 U
trans-1,3-Dichloropropene	10061-02-6	µg/kg		5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Trichloroethene	79-01-6	µg/kg	21	5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U
Trichlorofluoromethane	75-69-4	µg/kg		12 U	10 U	11 U	16 U	12 U	11 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U	10 U
Vinyl acetate	108-05-4	µg/kg		12 U	10 U	11 U	16 U	12 U	11 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U	10 U
Vinyl chloride	75-01-4	µg/kg	0.21	5.8 U	5.2 U	5.5 U	7.8 U	6.2 U	5.6 U	5.3 U	6.4 UF2	5.2 U	5.2 U	5.5 U	5.3 U	5.9 U	5.4 U	4.4 U	5.2 U	5.2 U

Notes:
µg = Microgram(s)
EPA = U.S. Environmental Protection Agency
F1 = MS and/or MSD recovery exceeds control limits
F2 = MS/MSD RPD exceeds control limits
H = Sample was prepped or analyzed beyond the specified (48hr) holding time
J = Estimated concentration; below the reporting limit but above the Method Detection Limit (MI
kg = Kilogram(s)
VOC = Volatile organic compound
U = Compound not detected at reporting limit shown
Bolded cells represent chemical detections
Bolded and shaded cells represent exceedances of remedial goals

Table 4-9. Post-ISTR Confirmation Soil Boring Results

			Soil Boring:											
								SB-3						
Analyte	CAS	Unit	Remedial Goal	POST-SO-SB3-05-04042024 4/4/2024	DUP-SO-2-04042024 Parent: SB3-05 4/4/2024	POST-SO-SB3-10-04042024 4/4/2024	POST-SO-SB3-15-04042024 4/4/2024	POST-SO-SB3-20-04042024 4/4/2024	POST-SO-SB3-25-04042024 4/4/2024	POST-SO-SB3-30-04042024 4/4/2024	POST-SO-SB3-35-04042024 4/4/2024	POST-SO-SB3-40-04042024 4/4/2024	POST-SO-SB3-45-04042024 4/4/2024	POST-SO-SB3-50-04042024 4/4/2024
VOCs (EPA TO-15)														
1,1,1,2-Tetrachloroethane	630-20-6	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,1,1-Trichloroethane	71-55-6	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,1,2,2-Tetrachloroethane	79-34-5	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/kg		20U	23U	22U	23U	24U	24U	26U	24U	22U	24U	23U
1,1,2-Trichloroethane	79-00-5	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,1-Dichloroethane	75-34-3	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,1-Dichloroethene	75-35-4	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,1-Dichloropropene	563-58-6	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,2,3-Trichlorobenzene	87-61-6	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,2,3-Trichloropropane	96-18-4	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,2,4-Trichlorobenzene	120-82-1	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,2,4-Trimethylbenzene	95-63-6	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,2-Dibromo-3-Chloropropane	96-12-8	µg/kg		13U	12U	11U	12U	12U	12U	13U	12U	11U	12U	12U
1,2-Dichlorobenzene	95-50-1	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,2-Dichloroethane	107-06-2	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,2-Dichloropropane	78-87-5	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,3,5-Trimethylbenzene	108-67-8	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,3-Dichlorobenzene	541-73-1	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,3-Dichloropropane	142-28-9	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,3-Dichloropropene, Total	542-75-6	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
1,4-Dichlorobenzene	106-46-7	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
2,2-Dichloropropane	594-20-7	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
2-Butanone (MEK)	78-93-3	µg/kg		26U	23U	22U	23U	24U	24U	26U	24U	22U	24U	23U
2-Chlorotoluene	95-49-8	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
2-Hexanone	591-78-6	µg/kg		26U	23U	22U	23U	24U	24U	26U	24U	22U	24U	23U
3-Chloro-1-propene	107-05-1	µg/kg		13U	12U	11U	12U	12U	12U	13U	12U	11U	12U	12U
4-Chlorotoluene	106-43-4	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
4-Isopropyltoluene	99-87-6	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
4-Methyl-2-pentanone (MIBK)	108-10-1	µg/kg		26U	23U	22U	23U	24U	24U	26U	24U	22U	24U	23U
Acetone	67-64-1	µg/kg		100U	96U	88U	93U	96U	96U	100U	93U	86U	94U	96U
Benzene	71-43-2	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Bromobenzene	108-86-1	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Bromoform	75-25-2	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Bromomethane	74-83-9	µg/kg		13U	12U	11U	12U	12U	12U	13U	12U	11U	12U	12U
Carbon disulfide	75-15-0	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Carbon tetrachloride	56-23-5	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Chlorobenzene	108-90-7	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Chlorobromomethane	74-97-5	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Chlorodibromomethane	124-48-1	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Chloroethane	75-00-3	µg/kg		13U	12U	11U	12U	12U	12U	13U	12U	11U	12U	12U
Chloroform	67-66-3	µg/kg		13U	12U	11U	12U	12U	12U	13U	12U	11U	12U	12U
Chloromethane	74-87-3	µg/kg		13U	12U	11U	12U	12U	12U	13U	12U	11U	12U	12U
cis-1,2-Dichloroethene	156-59-2	µg/kg	410	3.3U	2.9U	2.8U	2.9U	2.9U	3.0U	3.2U	3.0U	2.7U	2.9U	2.9U
cis-1,3-Dichloropropene	10061-01-5	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Cyclohexane	110-82-7	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Dibromomethane	74-95-3	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Dichlorobromomethane	75-27-4	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Dichlorodifluoromethane	75-71-8	µg/kg		13U	12U	11U	12U	12U	12U	13U	12U	11U	12U	12U
Ethyl ether	60-29-7	µg/kg		13U	12U	11U	12U	12U	12U	13U	12U	11U	12U	12U
Ethyl methacrylate	97-63-2	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Ethylbenzene	100-41-4	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Ethylene Dibromide	106-93-4	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Hexachlorobutadiene	87-68-3	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Hexane	110-54-3	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Iodomethane	74-88-4	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Isopropylbenzene	98-82-8	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Methyl acetate	79-20-9	µg/kg		13U	12U	11U	12U	12U	12U	13U	12U	11U	12U	12U
Methyl tert-butyl ether	1634-04-4	µg/kg		20U	23U	22U	23U	24U	24U	26U	24U	22U	24U	23U
Methylcyclohexane	108-87-2	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Methylene Chloride	75-09-2	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
m,p-Xylene & p-Xylene	179601-23-1	µg/kg		3.3U	2.9U	2.8U	2.9U	2.9U	3.0U	3.2U	3.0U	2.7U	2.9U	2.9U
Naphthalene	91-20-3	µg/kg		8.6U	7.7U	7.3U	7.7U	7.8U	7.9U	8.5U	7.8U	7.1U	7.8U	7.7U
n-Butylbenzene	104-51-8	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
N-Propylbenzene	103-65-1	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
o-Xylene	95-47-6	µg/kg		3.3U	2.9U	2.8U	2.9U	2.9U	3.0U	3.2U	3.0U	2.7U	2.9U	2.9U
sec-Butylbenzene	135-98-8	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Styrene	100-42-5	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
tert-Butylbenzene	98-06-6	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Tetrachloroethene	127-18-4	µg/kg	6.5	6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Tetrahydrofuran	109-99-9	µg/kg		20U	23U	22U	23U	24U	24U	26U	24U	22U	24U	23U
Toluene	108-88-3	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
trans-1,2-Dichloroethene	156-60-5	µg/kg		3.3U	2.9U	2.8U	2.9U	2.9U	3.0U	3.2U	3.0U	2.7U	2.9U	2.9U
trans-1,3-Dichloropropene	10061-02-6	µg/kg		6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Trichloroethene	79-01-6	µg/kg	21	6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U
Trichlorofluoromethane	75-69-4	µg/kg		13U	12U	11U	12U	12U	12U	13U	12U	11U	12U	12U
Vinyl acetate	108-05-4	µg/kg		13U	12U	11U	12U	12U	12U	13U	12U	11U	12U	12U
Vinyl chloride	75-01-4	µg/kg	0.21	6.6U	5.9U	5.5U	5.8U	5.9U	6.0U	6.5U	5.9U	5.4U	5.9U	5.9U

Notes:
µg = Microgram(s)
EPA = U.S. Environmental Protection Agency
F1 = MS and/or MSD recovery exceeds control limits
F2 = MS/MSD RPD exceeds control limits
H = Sample was prepped or analyzed beyond the specified (48hr) holding time
J = Estimated concentration; below the reporting limit but above the Method Detection Limit (MI
kg = Kilogram(s)
VOC = Volatile organic compound
U = Compound not detected at reporting limit shown
Bolded cells represent chemical detections
Bolded and shaded cells represent exceedances of remedial goals

Table 4-10. Post-ISTR Shallow Soil Sampling

Analytes	CAS	Unit	Sample ID: Remedial Goal (ug/kg)	PostStainedSoil-071820247/10/2024	PostShallowSample_01-3'_071820247/18/2024	PostShallowSample_01-3'_071820247/18/2024	PostShallowSample_01-1'_071820247/18/2024	PostShallowSample_02-3'_071820247/18/2024	PostShallowSample_05-3'_071820247/18/2024	PostShallowSample_05-3'_071820247/18/2024	PostShallowSample_04-3'_071820247/18/2024
VOCs (EPA 8260)											
1,1,1,2-Tetrachloroethane	630-20-6	ug/kg		0.23 UH	0.27 U	0.38 U	0.36 U	0.29 U	0.5 U	34 U	0.38 U
1,1,1-Trichloroethane	71-55-6	ug/kg		0.26 UH	0.3 U	0.31 U	0.29 U	0.32 U	0.33 U	32 U	0.38 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg		0.33 UH	0.4 U	0.4 U	0.38 U	0.42 U	0.43 U	30 U	0.51 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/kg		0.21 UH	0.25 U	0.25 U	0.23 U	0.26 U	0.26 U	32 U	0.32 U
1,1,2-Trichloroethane	79-00-5	ug/kg		0.39 UH	0.46 U	0.47 U	0.44 U	0.49 U	0.5 U	23 U	0.6 U
1,1-Dichloroethane	75-34-3	ug/kg		0.41 UH	0.49 U	0.47 U	0.45 U	0.51 U	0.52 U	24 U	0.63 U
1,1-Dichloroethene	75-35-4	ug/kg		0.21 UH	0.25 U	0.25 U	0.23 U	0.26 U	0.26 U	32 U	0.32 U
1,1-Dichloropropene	563-58-6	ug/kg		0.27 UH	0.32 U	0.33 U	0.31 U	0.34 U	0.35 U	30 U	0.41 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg		0.35 UH	0.42 U	0.42 U	0.4 U	0.44 U	0.45 U	21 U	0.54 U
1,2,3-Trichloropropane	96-18-4	ug/kg		0.29 UH	0.34 U	0.35 U	0.33 U	0.36 U	0.37 U	27 U	0.44 U
1,2,4-Trichlorobenzene	120-82-1	ug/kg		0.4 UH	0.48 U	0.49 U	0.46 U	0.5 U	0.52 U	24 U	0.62 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg		46 H	1.3 U	1.3 U	1.2 U	1.4 U	1.4 U	66 U	1.7 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg		0.29 UH	0.34 U	0.35 U	0.33 U	0.36 U	0.37 U	17 U	0.44 U
1,2-Dichlorobenzene	95-50-1	ug/kg		0.37 UH	0.44 U	0.44 U	0.41 U	0.46 U	0.47 U	22 U	0.56 U
1,2-Dichloroethane	107-06-2	ug/kg		0.31 UH	0.36 U	0.37 U	0.35 U	0.38 U	0.39 U	28 U	0.47 U
1,2-Dichloroethene, Total	540-59-0	ug/kg		0.3 UH	0.36 U	0.36 U	0.34 U	0.37 U	0.38 U	28 U	0.46 U
1,2-Dichloropropane	78-87-5	ug/kg		0.39 UH	0.46 U	0.47 U	0.44 U	0.48 U	0.49 U	25 U	0.59 U
1,3,5-Trimethylbenzene	108-67-8	ug/kg		34 H	0.58 U	0.59 U	0.55 U	0.6 U	0.62 U	29 U	0.74 U
1,3-Dichlorobenzene	541-73-1	ug/kg		0.32 UH	0.38 U	0.38 U	0.36 U	0.4 U	0.41 U	19 U	0.49 U
1,3-Dichloropropane	142-28-9	ug/kg		0.25 UH	0.18 U	0.18 U	0.17 U	0.18 U	0.19 U	8.9 U	0.23 U
1,3-Dichloropropene, Total	542-75-6	ug/kg		0.24 UH	0.29 U	0.29 U	0.27 U	0.3 U	0.31 U	14 U	0.37 U
1,4-Dichlorobenzene	106-46-7	ug/kg		0.38 UH	0.45 U	0.46 U	0.43 U	0.47 U	0.48 U	23 U	0.58 U
2,2-Dichloropropane	594-20-7	ug/kg		0.27 UH	0.32 U	0.33 U	0.31 U	0.34 U	0.35 U	16 U	0.42 U
2-Butanone (MEK)	78-93-5	ug/kg		42 H	38	35	6.2 U	6.4 U	320 U	7.6 U	
2-Chlorotoluene	95-49-8	ug/kg		0.42 UH	0.5 U	0.51 U	0.48 U	0.52 U	0.54 U	25 U	0.64 U
2-Hexanone	591-78-6	ug/kg		4.7 UH	5.6 U	5.7 U	5.4 U	5.9 U	6.1 U	290 U	7.5 U
3-Chloro-1-propene	107-05-1	ug/kg		0.17 UH	0.2 U	0.21 U	0.2 U	0.21 U	0.22 U	30 U	0.26 U
4-Chlorotoluene	106-43-4	ug/kg		0.12 UH	0.14 U	0.14 U	0.13 U	0.14 U	0.15 U	7 U	0.18 U
4-Isopropyltoluene	99-87-6	ug/kg		11 H	0.54 U	0.55 U	0.51 U	0.57 U	0.58 U	27 U	0.7 U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg		2.9 UH	3.5 U	3.5 U	3.3 U	3.6 U	3.7 U	180 U	4.5 U
Acetone	67-64-1	ug/kg		220 H	1400 U	700	34 U	36 U	27 U	1300 U	32 U
Benzene	71-43-2	ug/kg		0.34 UH	0.17 U	0.17 U	0.16 U	0.18 U	0.18 U	8.6 U	0.22 U
Bromobenzene	108-86-1	ug/kg		0.11 UH	0.13 U	0.13 U	0.12 U	0.13 U	0.13 U	6.5 U	0.16 U
Bromoform	75-25-2	ug/kg		0.31 UH	0.37 U	0.38 U	0.35 U	0.39 U	0.4 U	32 U	0.48 U
Bromomethane	74-83-9	ug/kg		0.42 UH	0.5 U	0.51 U	0.47 U	0.53 U	0.53 U	25 U	0.64 U
Carbon disulfide	75-15-0	ug/kg		0.13 UH	0.16 U	0.16 U	0.15 U	0.17 U	0.17 U	8 U	0.2 U
Carbon tetrachloride	56-23-5	ug/kg		0.1 UH	0.12 U	0.13 U	0.12 U	0.13 U	0.13 U	6.3 U	0.16 U
Chlorobenzene	108-90-7	ug/kg		0.11 UH	0.14 U	0.14 U	0.13 U	0.14 U	0.15 U	6.9 U	0.18 U
Chlorodibromomethane	74-93-5	ug/kg		0.13 UH	0.15 U	0.15 U	0.14 U	0.16 U	0.16 U	7.6 U	0.19 U
Chlorodibromomethane	124-48-1	ug/kg		0.21 UH	0.25 U	0.26 U	0.24 U	0.27 U	0.27 U	13 U	0.33 U
Chloroethane	75-00-3	ug/kg		0.22 UH	0.27 U	0.27 U	0.25 U	0.28 U	0.29 U	13 U	0.34 U
Chloroform	67-66-3	ug/kg		0.26 UH	0.31 U	0.31 U	0.29 U	0.32 U	0.33 U	15 U	0.4 U
Chloromethane	74-87-3	ug/kg		0.23 UH	0.27 U	0.27 U	0.26 U	0.28 U	0.29 U	14 U	0.35 U
cis-1,2-Dichloroethene	156-59-2	ug/kg	410	2.9 H	0.4 U	0.41 U	0.38 U	0.42 U	0.43 U	20 U	0.52 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg		0.24 UH	0.29 U	0.29 U	0.27 U	0.3 U	0.31 U	14 U	0.37 U
Cyclohexane	110-82-7	ug/kg		0.29 UH	0.34 U	0.35 U	0.33 U	0.36 U	0.37 U	17 U	0.44 U
Dibromomethane	74-95-3	ug/kg		0.41 UH	0.48 U	0.49 U	0.46 U	0.51 U	0.52 U	24 U	0.63 U
Dichlorodifluoromethane	75-27-4	ug/kg		0.31 UH	0.37 U	0.38 U	0.35 U	0.39 U	0.4 U	19 U	0.48 U
Dichlorofluoromethane	75-71-8	ug/kg		0.35 UH	0.41 U	0.42 U	0.39 U	0.43 U	0.45 U	21 U	0.55 U
Ethyl ether	60-29-7	ug/kg		0.17 UH	0.2 U	0.2 U	0.19 U	0.21 U	0.22 U	10 U	0.26 U
Ethyl methacrylate	97-63-2	ug/kg		0.38 UH	0.45 U	0.46 U	0.43 U	0.48 U	0.48 U	23 U	0.59 U
Ethylbenzene	100-41-4	ug/kg		0.35 UH	0.42 U	0.43 U	0.4 U	0.44 U	0.45 U	21 U	0.54 U
Ethylene Dibromide	106-93-4	ug/kg		0.31 UH	0.36 U	0.37 U	0.35 U	0.38 U	0.39 U	18 U	0.47 U
Hexachlorobutadiene	87-68-3	ug/kg		0.42 UH	0.5 U	0.51 U	0.48 U	0.53 U	0.54 U	25 U	0.65 U
Hexane	110-54-3	ug/kg		0.11 UH	0.13 U	0.13 U	0.12 U	0.14 U	0.14 U	6.7 U	0.17 U
Iodomethane	74-88-4	ug/kg		0.29 UH	0.35 U	0.35 U	0.33 U	0.37 U	0.37 U	18 U	0.45 U
Isopropylbenzene	98-82-8	ug/kg		0.13 UH	0.15 U	0.15 U	0.15 U	0.16 U	0.16 U	7.3 U	0.2 U
Methyl acetate	79-20-9	ug/kg		1.1 UH	1.3 U	1.3 U	1.2 U	1.3 U	1.4 U	64 U	1.6 U
Methyl tert-butyl ether	1634-04-4	ug/kg		0.13 UH	0.16 U	0.16 U	0.15 U	0.17 U	0.17 U	8.1 U	0.21 U
Methylcyclohexane	108-87-2	ug/kg		5.8 H	0.39 U	0.4 U	0.37 U	0.41 U	0.42 U	20 U	0.5 U
Methylene Chloride	75-09-2	ug/kg		0.28 UH	0.31 U	0.32 U	0.3 U	0.33 U	0.34 U	16 U	0.42 U
m-Xylene & p-Xylene	179601-23-1	ug/kg		6.5 H	0.48 U	0.47 U	0.44 U	0.49 U	0.5 U	23 U	0.6 U
Naphthalene	91-20-3	ug/kg		31 H	0.43 U	0.43 U	0.41 U	0.45 U	0.46 U	22 U	0.55 U
n-Butylbenzene	104-51-8	ug/kg		0.39 UH	0.47 U	0.47 U	0.44 U	0.49 U	0.5 U	24 U	0.6 U
N-Propylbenzene	103-65-1	ug/kg		0.35 UH	0.43 U	0.44 U	0.41 U	0.45 U	0.47 U	22 U	0.56 U
o-Xylene	95-47-6	ug/kg		8.6 H	0.53 U	0.54 U	0.51 U	0.56 U	0.57 U	27 U	0.69 U
sec-Butylbenzene	135-98-8	ug/kg		0.41 UH	0.49 U	0.49 U	0.46 U	0.51 U	0.52 U	25 U	0.63 U
Styrene	100-42-5	ug/kg		0.41 UH	0.49 U	0.5 U	0.47 U	0.51 U	0.53 U	25 U	0.63 U
tert-Butylbenzene	98-06-6	ug/kg		0.36 UH	0.42 U	0.43 U	0.4 U	0.44 U	0.46 U	21 U	0.55 U
Tetrachloroethene	127-18-4	ug/kg	8.5	30 H	0.16 U	0.17 U	0.15 U	0.17 U	0.17 U	8.2 U	0.21 U
Tetrahydrofuran	109-99-9	ug/kg		0.67 UH	0.79 U	0.81 U	0.75 U	0.83 U	0.83 U	40 U	1 U
Toluene	108-88-3	ug/kg		0.5 UH	0.59 U	0.6 U	0.56 U	0.62 U	0.63 U	30 U	0.78 U
Total BTEX	BTEX	ug/kg		30 H	0.17 U	0.17 U	0.16 U	0.18 U	0.18 U	8.6 U	0.22 U
trans-1,2-Dichloroethene	156-60-5	ug/kg		0.3 UH	0.36 U	0.36 U	0.34 U	0.37 U	0.38 U	18 U	0.46 U
trans-1,3-Dichloropropene	10061-02-6	ug/kg		0.35 UH	0.41 U	0.42 U	0.39 U	0.43 U	0.44 U	21 U	0.53 U
Trichloroethene	79-01-6	ug/kg	21	5.8 H	0.33 U	0.33 U	0.31 U	0.34 U	0.35 U	16 U	0.41 U
Trichlorofluoromethane	75-69-4	ug/kg		0.27 UH	0.32 U	0.32 U	0.3 U	0.33 U	0.34 U	16 U	0.41 U
Trihalomethanes, Total	E501045	ug/kg		0.21 UH	0.25 U	0.26 U	0.24 U	0.27 U	0.27 U	13 U	0.33 U
Vinyl acetate	108-05-4	ug/kg		0.78 UH	0.93 U	0.95 U	0.89 U	0.98 U	1 U	47 U	1.2 U
Vinyl chloride	75-01-4	ug/kg	0.21	0.3 UH	0.47 U	0.48 U	0.45 U	0.49 U	0.51 U	23 U	0.61 U
Xylenes, Total	1330-20-7	ug/kg		39 H	0.48 U	0.47 U	0.44 U	0.49 U	0.5 U	23 U	0.6 U

Notes:
µg = Microgram(s)
CAS = Chemical Abstracts Service
EPA = U.S. Environmental Protection Agency
H = Sample was prepped or analyzed beyond the specified (48-hour) holding time
kg = Kilogram(s)
U = Compound not detected at reporting limit shown
VOC = Volatile organic compound
Bolded cells report chemical detections
Bolded and highlighted cells report remedial goal exceedances

Table 4-10. Post-ISTR Shallow Soil Sampling

Analytes	CAS	Unit	Sample ID / Remedial Goal (ug/kg)	PostShallowSample_04-2'_07182024 7/18/2024	PostShallowSample_05-2'_07182024 7/18/2024	PostShallowSample_05-2'_07182024 7/18/2024	PostShallowSample_06-1'_07182024 7/18/2024	PostShallowSample_06-2'_07182024 7/18/2024	PostShallowSample_07-1'_07182024 7/18/2024	PostShallowSample_07-2'_07182024 7/18/2024	PostShallowSample_08-2'_07182024 7/18/2024
VOCs (EPA 8260)											
1,1,1,2-Tetrachloroethane	630-20-6	ug/kg		0.34 U	1.9 U	1.6 U	3.4 U	0.35 U	1.4 U	0.34 U	1.5 U
1,1,1-Trichloroethane	71-55-6	ug/kg		0.37 U	1.9 U	1.7 U	3.5 U	0.38 U	1.6 U	0.38 U	1.6 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg		0.48 U	2.6 U	2.2 U	4.8 U	0.49 U	2.0 U	0.49 U	2.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/kg		0.3 U	1.7 U	1.4 U	3.1 U	0.32 U	1.3 U	0.31 U	1.3 U
1,1,2-Trichloroethane	79-00-5	ug/kg		0.57 U	3.2 U	2.6 U	5.8 U	0.59 U	2.4 U	0.58 U	2.4 U
1,1-Dichloroethane	75-34-3	ug/kg		0.45 U	2.5 U	2.1 U	4.6 U	0.48 U	1.9 U	0.46 U	1.9 U
1,1-Dichloroethene	75-35-4	ug/kg		0.3 U	1.7 U	1.4 U	3.1 U	0.32 U	1.3 U	0.31 U	1.3 U
1,1-Dichloropropene	563-58-6	ug/kg		0.39 U	2.2 U	1.8 U	4.0 U	0.41 U	1.6 U	0.4 U	1.7 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg		0.51 U	2.8 U	2.3 U	5.1 U	0.53 U	2.1 U	0.52 U	2.2 U
1,2,3-Trichloropropane	96-18-4	ug/kg		0.42 U	2.3 U	1.9 U	4.2 U	0.43 U	1.8 U	0.43 U	1.8 U
1,2,4-Trichlorobenzene	120-82-1	ug/kg		0.59 U	3.3 U	2.7 U	6.0 U	0.62 U	2.5 U	0.6 U	2.5 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg		1.6 U	8.8 U	7.3 U	16 U	1.7 U	6.7 U	1.6 U	6.9 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg		0.42 U	2.3 U	1.9 U	4.2 U	0.43 U	1.8 U	0.43 U	1.8 U
1,2-Dichlorobenzene	95-50-1	ug/kg		0.53 U	2.9 U	2.4 U	5.3 U	0.55 U	2.2 U	0.54 U	2.3 U
1,2-Dichloroethane	107-06-2	ug/kg		0.45 U	2.5 U	2.1 U	4.6 U	0.48 U	1.9 U	0.45 U	1.9 U
1,2-Dichloropropane, Total	540-59-0	ug/kg		0.44 U	2.4 U	2.0 U	4.4 U	0.45 U	1.8 U	0.44 U	1.9 U
1,2-Dichloropropane	78-87-5	ug/kg		0.56 U	3.1 U	2.5 U	5.6 U	0.58 U	2.3 U	0.57 U	2.4 U
1,3,5-Trimethylbenzene	108-67-8	ug/kg		0.7 U	3.8 U	3.2 U	7.0 U	0.72 U	2.9 U	0.72 U	3.0 U
1,3-Dichlorobenzene	541-73-1	ug/kg		0.46 U	2.6 U	2.1 U	4.6 U	0.48 U	1.9 U	0.47 U	2.0 U
1,3-Dichloropropane	142-28-9	ug/kg		0.22 U	1.2 U	0.97 U	2.2 U	0.23 U	0.9 U	0.23 U	0.96 U
1,3-Dichloropropene, Total	542-75-6	ug/kg		0.35 U	1.9 U	1.6 U	3.4 U	0.36 U	1.5 U	0.36 U	1.5 U
1,4-Dichlorobenzene	106-46-7	ug/kg		0.55 U	3.0 U	2.5 U	5.5 U	0.56 U	2.3 U	0.56 U	2.4 U
2,2-Dichloropropane	594-20-7	ug/kg		0.4 U	2.2 U	1.8 U	3.9 U	0.42 U	1.7 U	0.4 U	1.7 U
2-Butanone (MEK)	78-93-5	ug/kg		7.2 U	39 U	33 U	72 U	7.4 U	30 U	7.4 U	31 U
2-Chlorotoluene	95-49-8	ug/kg		0.61 U	3.4 U	2.8 U	6.1 U	0.64 U	2.6 U	0.62 U	2.6 U
2-Hexanone	591-78-6	ug/kg		6.9 U	37 U	31 U	69 U	7.2 U	29 U	7 U	30 U
3-Chloro-1-propene	107-05-1	ug/kg		0.25 U	1.4 U	1.1 U	2.5 U	0.26 U	1.0 U	0.26 U	1.1 U
4-Chlorotoluene	106-43-4	ug/kg		0.17 U	0.96 U	0.79 U	1.7 U	0.18 U	0.7 U	0.17 U	0.73 U
4-Isopropyltoluene	99-87-6	ug/kg		0.66 U	3.6 U	7.0	6.6 U	0.69 U	2.8 U	0.67 U	2.8 U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg		4.3 U	24 U	19 U	43 U	4.5 U	18 U	4.3 U	18 U
Acetone	67-64-1	ug/kg		31 U	1200 U	1400 U	1300 U	930 U	1300 U	31 U	1300 U
Benzene	71-43-2	ug/kg		0.21 U	1.2 U	0.94 U	2.1 U	0.22 U	0.87 U	0.21 U	0.9 U
Bromobenzene	108-86-1	ug/kg		0.35 U	1.9 U	1.6 U	3.5 U	0.36 U	1.4 U	0.36 U	1.5 U
Bromochloromethane	74-97-5	ug/kg		0.45 U	2.5 U	2.0 U	4.5 U	0.47 U	1.9 U	0.46 U	1.9 U
Bromodichloromethane	75-27-4	ug/kg		0.41 U	2.3 U	1.8 U	4.1 U	0.42 U	1.7 U	0.42 U	1.7 U
Bromoform	75-25-2	ug/kg		0.45 U	2.5 U	2.0 U	4.5 U	0.47 U	1.9 U	0.46 U	1.9 U
Bromomethane	74-83-9	ug/kg		0.61 U	3.4 U	2.7 U	6.1 U	0.64 U	2.5 U	0.62 U	2.6 U
Carbon disulfide	75-15-0	ug/kg		0.39 U	2.2 U	1.7 U	3.9 U	0.42 U	1.6 U	0.4 U	1.7 U
Carbon tetrachloride	56-23-5	ug/kg		0.15 U	0.85 U	0.68 U	1.5 U	0.16 U	0.62 U	0.15 U	0.64 U
Chlorobenzene	108-90-7	ug/kg		0.17 U	0.96 U	0.75 U	1.7 U	0.18 U	0.7 U	0.17 U	0.72 U
Chlorodibromomethane	74-95-3	ug/kg		0.38 U	2.1 U	1.7 U	3.8 U	0.4 U	1.6 U	0.39 U	1.6 U
Chloroethane	75-00-3	ug/kg		0.32 U	1.8 U	1.5 U	3.2 U	0.34 U	1.3 U	0.33 U	1.4 U
Chloroform	67-66-3	ug/kg		0.37 U	2.1 U	1.7 U	3.7 U	0.39 U	1.5 U	0.38 U	1.6 U
Chloromethane	74-87-3	ug/kg		0.33 U	1.9 U	1.5 U	3.3 U	0.35 U	1.4 U	0.34 U	1.4 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	410	0.49 U	2.8 U	2.2 U	4.9 U	0.51 U	2.1 U	0.5 U	2.1 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg		0.35 U	1.9 U	1.6 U	3.4 U	0.36 U	1.5 U	0.36 U	1.5 U
Cyclohexane	110-82-7	ug/kg		0.42 U	2.3 U	1.9 U	4.2 U	0.43 U	1.7 U	0.43 U	1.8 U
Dibromofluoromethane	74-95-3	ug/kg		0.99 U	5.4 U	4.5 U	9.9 U	1.0 U	4.1 U	0.6 U	4.2 U
Dichlorodifluoromethane	75-27-8	ug/kg		0.45 U	2.5 U	2.0 U	4.5 U	0.46 U	1.9 U	0.46 U	1.9 U
Dichlorofluoromethane	75-71-8	ug/kg		0.51 U	2.8 U	2.3 U	5.1 U	0.52 U	2.1 U	0.52 U	2.2 U
Ethyl ether	60-29-7	ug/kg		0.24 U	9.7 U	1.1 U	9.0 U	0.22 U	0.9 U	0.25 U	1.1 U
Ethyl methacrylate	97-63-2	ug/kg		0.35 U	2.2 U	1.6 U	3.5 U	0.49 U	1.5 U	0.36 U	1.4 U
Ethylbenzene	100-41-4	ug/kg		0.31 U	2.0 U	1.5 U	3.1 U	0.46 U	1.3 U	0.32 U	1.3 U
Ethylene Dibromide	106-93-4	ug/kg		0.45 U	2.5 U	2.0 U	4.5 U	0.46 U	1.9 U	0.45 U	1.9 U
Hexachlorobutadiene	87-68-3	ug/kg		0.61 U	3.4 U	2.8 U	6.1 U	0.64 U	2.5 U	0.62 U	2.6 U
Hexane	110-54-3	ug/kg		0.36 U	6.4 U	7.3 U	6.6 U	0.14 U	6.8 U	0.36 U	7.0 U
Iodomethane	74-88-4	ug/kg		0.43 U	2.4 U	1.9 U	4.3 U	0.38 U	1.8 U	0.43 U	1.8 U
Isopropylbenzene	98-82-8	ug/kg		0.29 U	7.4 U	8.8 U	7.6 U	0.12 U	2.8 U	0.29 U	8.0 U
Methyl acetate	79-20-9	ug/kg		1.3 U	81 U	30 U	69 U	1.4 U	65 U	1.6 U	67 U
Methyl tert-butyl ether	1634-04-4	ug/kg		0.2 U	7.8 U	8.8 U	8.0 U	0.17 U	8.2 U	0.2 U	8.5 U
Methylcyclohexane	108-87-2	ug/kg		0.48 U	19 U	21 U	19 U	0.42 U	20 U	0.48 U	21 U
Methylene Chloride	75-09-2	ug/kg		0.38 U	15 U	17 U	16 U	0.34 U	16 U	0.39 U	17 U
m-Xylene & p-Xylene	179601-23-1	ug/kg		0.57 U	23 U	28 U	23 U	0.5 U	24 U	0.58 U	24 U
Naphthalene	91-20-3	ug/kg		0.52 U	21 U	34 U	21 U	0.48 U	22 U	0.53 U	23 U
n-Butylbenzene	104-51-8	ug/kg		0.57 U	23 U	36 U	23 U	0.51 U	24 U	0.58 U	25 U
N-Propylbenzene	103-65-1	ug/kg		0.53 U	21 U	34 U	22 U	0.47 U	22 U	0.54 U	23 U
o-Xylene	95-47-6	ug/kg		0.45 U	18 U	29 U	27 U	0.58 U	27 U	0.46 U	28 U
sec-Butylbenzene	135-98-8	ug/kg		0.59 U	24 U	27 U	24 U	0.53 U	25 U	0.6 U	26 U
Styrene	100-42-5	ug/kg		0.6 U	24 U	27 U	25 U	0.53 U	25 U	0.61 U	26 U
tert-Butylbenzene	98-06-6	ug/kg		0.52 U	21 U	25 U	21 U	0.46 U	22 U	0.53 U	23 U
Tetrachloroethene	127-18-4	ug/kg	6.5	0.2 U	7.9 U	3500	8.1 U	38	8.3	0.2 U	8.6 U
Tetrahydrofuran	109-99-9	ug/kg		0.93 U	38 U	44 U	40 U	0.86 U	41 U	0.99 U	42 U
Toluene	108-88-3	ug/kg		0.72 U	29 U	33 U	30 U	0.64 U	30 U	0.74 U	31 U
Total BTEX	BTEX	ug/kg		0.21 U	8.5 U	9.4 U	8.5 U	0.18 U	8.7 U	0.21 U	9.0 U
trans-1,2-Dichloroethene	156-60-5	ug/kg		0.44 U	17 U	30 U	18 U	0.39 U	18 U	0.44 U	19 U
trans-1,3-Dichloropropene	10061-02-6	ug/kg		0.5 U	20 U	23 U	21 U	0.45 U	21 U	0.51 U	22 U
Trichloroethene	79-01-6	ug/kg	21	0.39 U	16 U	18 U	16 U	0.35 U	16 U	0.4 U	17 U
Trichlorofluoromethane	75-69-4	ug/kg		0.39 U	15 U	17 U	16 U	0.34 U	16 U	0.39 U	17 U
Trihalomethanes, Total	E501045	ug/kg		0.31 U	12 U	14 U	13 U	0.28 U	13 U	0.32 U	13 U
Vinyl acetate	108-05-4	ug/kg		1.1 U	47 U	51 U	47 U	1.0 U	48 U	1.2 U	49 U
Vinyl chloride	75-01-4	ug/kg	0.21	0.58 U	25 U	30 U	34 U	0.51 U	24 U	0.59 U	25 U
Xylenes, Total	1330-20-7	ug/kg		0.57 U	23 U	28 U	23 U	0.5 U	24 U	0.58 U	24 U

Notes:
µg = Microgram(s)
CAS = Chemical Abstracts Service
EPA = U.S. Environmental Protection Agency
H = Sample was prepped or analyzed beyond the specified (48-hour) holding time
kg = Kilogram(s)
U = Compound not detected at reporting limit shown
VOC = Volatile organic compound
Bolded cells report chemical detections
Bolded and highlighted cells report remedial goal exceedances

Table 4-10. Post-ISTR Shallow Soil Sampling

Analytes	CAS	Unit	Remedial Goal (ug/kg)	Sample ID: PostShallowSample_08-3'_8/7/2024 7/18/2024	PostShallowSample_09-3'_8/7/2024 7/18/2024	PostShallowSample_09-3'_8/7/2024 7/18/2024	PostShallowSample_10-3'_8/7/2024 7/18/2024	PostShallowSample_10-3'_8/7/2024 7/18/2024
VOCs (EPA 8260)								
1,1,1,2-Tetrachloroethane	630-20-6	ug/kg		0.28 U	0.3 U	0.29 U	0.27 U	0.28 U
1,1,1-Trichloroethane	71-55-6	ug/kg		0.31 U	0.34 U	0.32 U	0.3 U	0.31 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg		0.41 U	0.44 U	0.43 U	0.39 U	0.41 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/kg		0.25 U	0.27 U	0.26 U	0.24 U	0.25 U
1,1,2-Trichloroethane	79-00-5	ug/kg		0.47 U	0.51 U	0.49 U	0.45 U	0.48 U
1,1-Dichloroethane	75-34-3	ug/kg		0.17 U	0.18 U	0.18 U	0.16 U	0.18 U
1,1-Dichloroethene	75-35-4	ug/kg		0.25 U	0.27 U	0.26 U	0.24 U	0.25 U
1,1-Dichloropropene	563-58-6	ug/kg		0.19 U	0.2 U	0.19 U	0.18 U	0.19 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg		0.42 U	0.46 U	0.44 U	0.4 U	0.43 U
1,2,3-Trichloropropane	96-18-4	ug/kg		0.35 U	0.38 U	0.36 U	0.33 U	0.35 U
1,2,4-Trichlorobenzene	120-82-1	ug/kg		0.49 U	0.53 U	0.51 U	0.47 U	0.49 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg		1.4 U	1.4 U	1.4 U	1.3 U	1.3 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg		0.35 U	0.38 U	0.36 U	0.33 U	0.35 U
1,2-Dichlorobenzene	95-50-1	ug/kg		0.44 U	0.48 U	0.46 U	0.42 U	0.45 U
1,2-Dichloroethane	107-06-2	ug/kg		0.37 U	0.4 U	0.39 U	0.35 U	0.37 U
1,2-Dichloroethene, Total	540-59-0	ug/kg		37	0.35 U	0.35 U	20	18
1,2-Dichloropropane	78-87-5	ug/kg		0.47 U	0.51 U	0.49 U	0.45 U	0.47 U
1,3,5-Trimethylbenzene	108-67-8	ug/kg		0.59 U	0.63 U	0.61 U	0.56 U	0.59 U
1,3-Dichlorobenzene	541-73-1	ug/kg		0.39 U	0.42 U	0.4 U	0.37 U	0.39 U
1,3-Dichloropropane	142-28-9	ug/kg		0.18 U	0.19 U	0.19 U	0.17 U	0.18 U
1,3-Dichloropropene, Total	542-75-6	ug/kg		0.29 U	0.31 U	0.3 U	0.28 U	0.29 U
1,4-Dichlorobenzene	106-46-7	ug/kg		0.46 U	0.49 U	0.48 U	0.44 U	0.46 U
2,2-Dichloropropane	594-20-7	ug/kg		0.33 U	0.36 U	0.34 U	0.31 U	0.33 U
2-Butanone (MEK)	78-93-3	ug/kg		6 U	120	29	5.7 U	6 U
2-Chlorotoluene	95-49-8	ug/kg		0.51 U	0.55 U	0.53 U	0.48 U	0.51 U
2-Hexanone	591-78-6	ug/kg		5.8 U	6.2 U	6 U	5.5 U	5.8 U
3-Chloro-1-propene	107-05-1	ug/kg		0.21 U	0.23 U	0.22 U	0.2 U	0.21 U
4-Chlorotoluene	106-43-4	ug/kg		0.14 U	0.15 U	0.15 U	0.13 U	0.14 U
4-Isopropyltoluene	99-87-6	ug/kg		0.55 U	0.59 U	0.57 U	0.52 U	0.56 U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg		5.6 U	5.8 U	5.7 U	5.1 U	5.5 U
Acetone	67-64-1	ug/kg		36 U	790	260	24 U	36 U
Benzene	71-43-2	ug/kg		0.17 U	0.18 U	0.18 U	0.16 U	0.17 U
Bromobenzene	108-86-1	ug/kg		0.15 U	0.16 U	0.15 U	0.13 U	0.15 U
Bromoform	75-25-2	ug/kg		0.38 U	0.41 U	0.39 U	0.36 U	0.38 U
Bromomethane	74-83-9	ug/kg		0.51 U	0.55 U	0.53 U	0.48 U	0.51 U
Carbon disulfide	75-15-0	ug/kg		0.36 U	0.37 U	0.37 U	0.35 U	0.36 U
Carbon tetrachloride	56-23-5	ug/kg		0.13 U	0.14 U	0.13 U	0.12 U	0.13 U
Chlorobenzene	108-90-3	ug/kg		0.14 U	0.15 U	0.14 U	0.13 U	0.14 U
Chlorodibromomethane	34-93-5	ug/kg		0.15 U	0.17 U	0.16 U	0.15 U	0.15 U
Chlorodibromomethane	124-48-1	ug/kg		0.26 U	0.28 U	0.27 U	0.25 U	0.26 U
Chloroethane	75-00-3	ug/kg		0.27 U	0.29 U	0.28 U	0.26 U	0.27 U
Chloroform	67-66-3	ug/kg		0.31 U	0.34 U	0.33 U	0.3 U	0.32 U
Chloromethane	74-87-3	ug/kg		0.27 U	0.3 U	0.28 U	0.26 U	0.28 U
cis-1,2-Dichloroethene	156-59-2	ug/kg	410	37	0.44 U	0.43 U	20	18
cis-1,3-Dichloropropene	10061-01-5	ug/kg		0.29 U	0.31 U	0.3 U	0.28 U	0.29 U
Cyclohexane	110-82-7	ug/kg		0.35 U	0.38 U	0.36 U	0.33 U	0.35 U
Dibromomethane	74-95-3	ug/kg		0.49 U	0.53 U	0.51 U	0.47 U	0.5 U
Dichlorobromomethane	75-27-4	ug/kg		0.38 U	0.41 U	0.39 U	0.36 U	0.38 U
Dichlorodifluoromethane	75-71-8	ug/kg		0.42 U	0.46 U	0.44 U	0.4 U	0.43 U
Ethyl ether	60-29-7	ug/kg		0.2 U	0.22 U	0.21 U	0.19 U	0.21 U
Ethyl methacrylate	97-63-2	ug/kg		0.44 U	0.48 U	0.46 U	0.44 U	0.45 U
Ethylbenzene	100-41-4	ug/kg		0.43 U	0.48 U	0.45 U	0.41 U	0.43 U
Ethylene Dibromide	106-93-4	ug/kg		0.17 U	0.4 U	0.39 U	0.35 U	0.37 U
Hexachlorobutadiene	87-68-3	ug/kg		0.51 U	0.55 U	0.53 U	0.49 U	0.52 U
Hexane	110-54-3	ug/kg		0.13 U	0.15 U	0.14 U	0.13 U	0.14 U
Iodomethane	74-88-4	ug/kg		0.36 U	0.38 U	0.37 U	0.34 U	0.36 U
Isopropylbenzene	98-82-8	ug/kg		0.16 U	0.17 U	0.16 U	0.15 U	0.16 U
Methyl acetate	79-20-9	ug/kg		1.3 U	1.4 U	1.3 U	1.2 U	1.3 U
Methyl tert-butyl ether	1634-04-4	ug/kg		0.16 U	0.18 U	0.17 U	0.16 U	0.17 U
Methylcyclohexane	108-87-2	ug/kg		0.4 U	0.43 U	0.41 U	0.38 U	0.4 U
Methylene Chloride	75-09-2	ug/kg		0.32 U	0.34 U	0.33 U	0.3 U	0.32 U
m-Xylene & p-Xylene	179601-23-1	ug/kg		0.47 U	0.51 U	0.49 U	0.45 U	0.48 U
Naphthalene	91-20-3	ug/kg		0.44 U	0.47 U	0.45 U	0.41 U	0.44 U
n-Butylbenzene	104-51-8	ug/kg		0.48 U	0.51 U	0.49 U	0.45 U	0.48 U
N-Propylbenzene	103-65-1	ug/kg		0.44 U	0.48 U	0.46 U	0.42 U	0.45 U
o-Xylene	95-47-6	ug/kg		0.54 U	0.58 U	0.56 U	0.51 U	0.55 U
sec-Butylbenzene	135-98-8	ug/kg		0.5 U	0.53 U	0.51 U	0.47 U	0.5 U
Styrene	100-42-5	ug/kg		0.5 U	0.54 U	0.52 U	0.48 U	0.51 U
tert-Butylbenzene	98-06-6	ug/kg		0.43 U	0.47 U	0.45 U	0.41 U	0.44 U
Tetrachloroethene	127-18-4	ug/kg	8.5	0.17 U	0.18 U	0.17 U	0.16 U	0.17 U
Tetrahydrofuran	109-99-9	ug/kg		0.81 U	0.87 U	0.84 U	0.77 U	0.81 U
Toluene	108-88-3	ug/kg		0.6 U	0.65 U	0.63 U	0.57 U	0.61 U
Total BTEX	BTEX	ug/kg		0.17 U	0.18 U	0.18 U	0.16 U	0.17 U
trans-1,2-Dichloroethene	156-60-5	ug/kg		0.36 U	0.39 U	0.38 U	0.35 U	0.37 U
trans-1,3-Dichloropropene	10061-02-6	ug/kg		0.42 U	0.45 U	0.44 U	0.4 U	0.42 U
Trichloroethene	79-01-6	ug/kg	21	0.31 U	0.33 U	0.32 U	0.31 U	0.32 U
Trichlorofluoromethane	75-69-4	ug/kg		0.32 U	0.35 U	0.34 U	0.31 U	0.33 U
Trihalomethanes, Total	8001045	ug/kg		0.26 U	0.28 U	0.27 U	0.25 U	0.26 U
Vinyl acetate	108-05-4	ug/kg		0.95 U	1 U	0.99 U	0.9 U	0.96 U
Vinyl chloride	75-01-4	ug/kg	0.21	0.48 U	0.52 U	0.5 U	0.46 U	0.48 U
Xylenes, Total	1330-20-7	ug/kg		0.47 U	0.51 U	0.49 U	0.45 U	0.48 U

Notes:
µg = Microgram(s)
CAS = Chemical Abstracts Service
EPA = U.S. Environmental Protection Agency
H = Sample was prepped or analyzed beyond the specified (48-hour) holding time
kg = Kilogram(s)
U = Compound not detected at reporting limit shown
VOC = Volatile organic compound
Bolded cells report chemical detections
Bolded and highlighted cells report remedial goal exceedances

Figures

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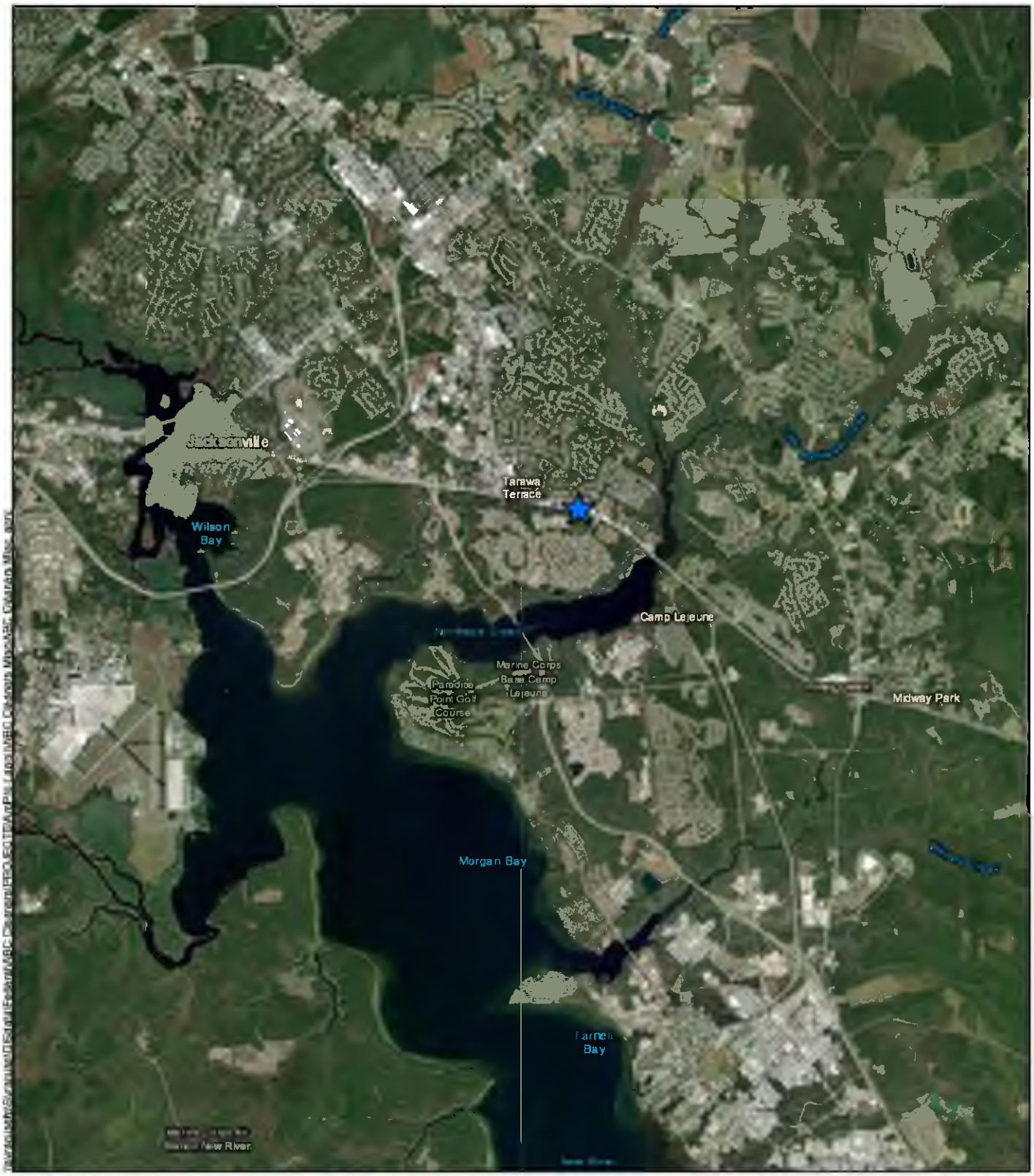

Legend

★ Site Location

Figure 1-1
Site Location
ABC One-Hour Cleaners Superfund Site OU3
Jacksonville, Onslow County, North Carolina

Map Date: 10/29/2024

0 2.5 5
Miles

N





0 200 400
Feet

Legend

Site Boundary

Site Location

Figure 1-2
Site Vicinity
ABC One-Hour Cleaners Superfund Site OU3
Jacksonville, Onslow County, North Carolina

Map Date: 11/4/2024

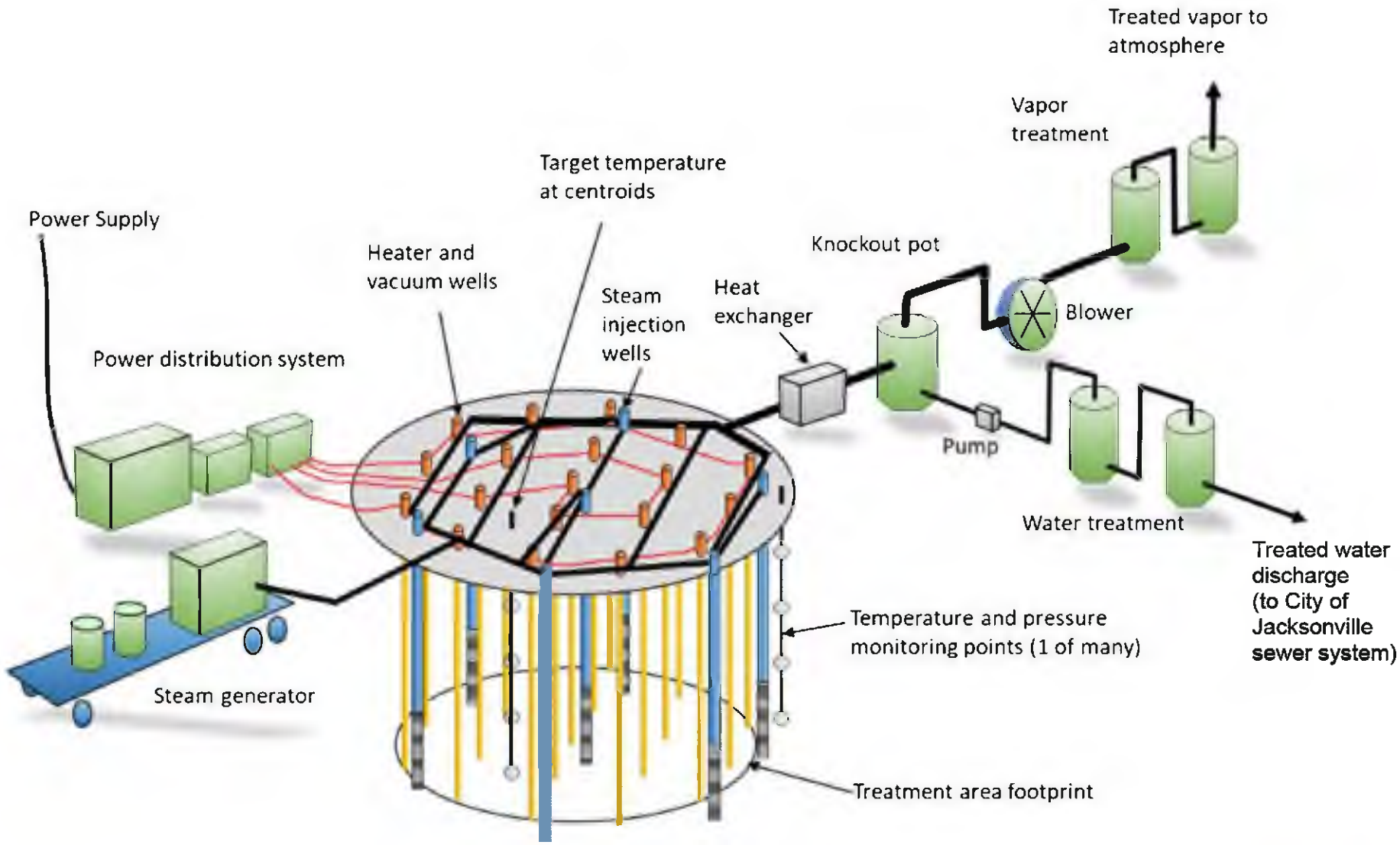

Figure 1-3
General TCH Remediation Process Schematic
ABC One-Hour Cleaners Superfund Site OU3
Jacksonville, Onslow County, North Carolina

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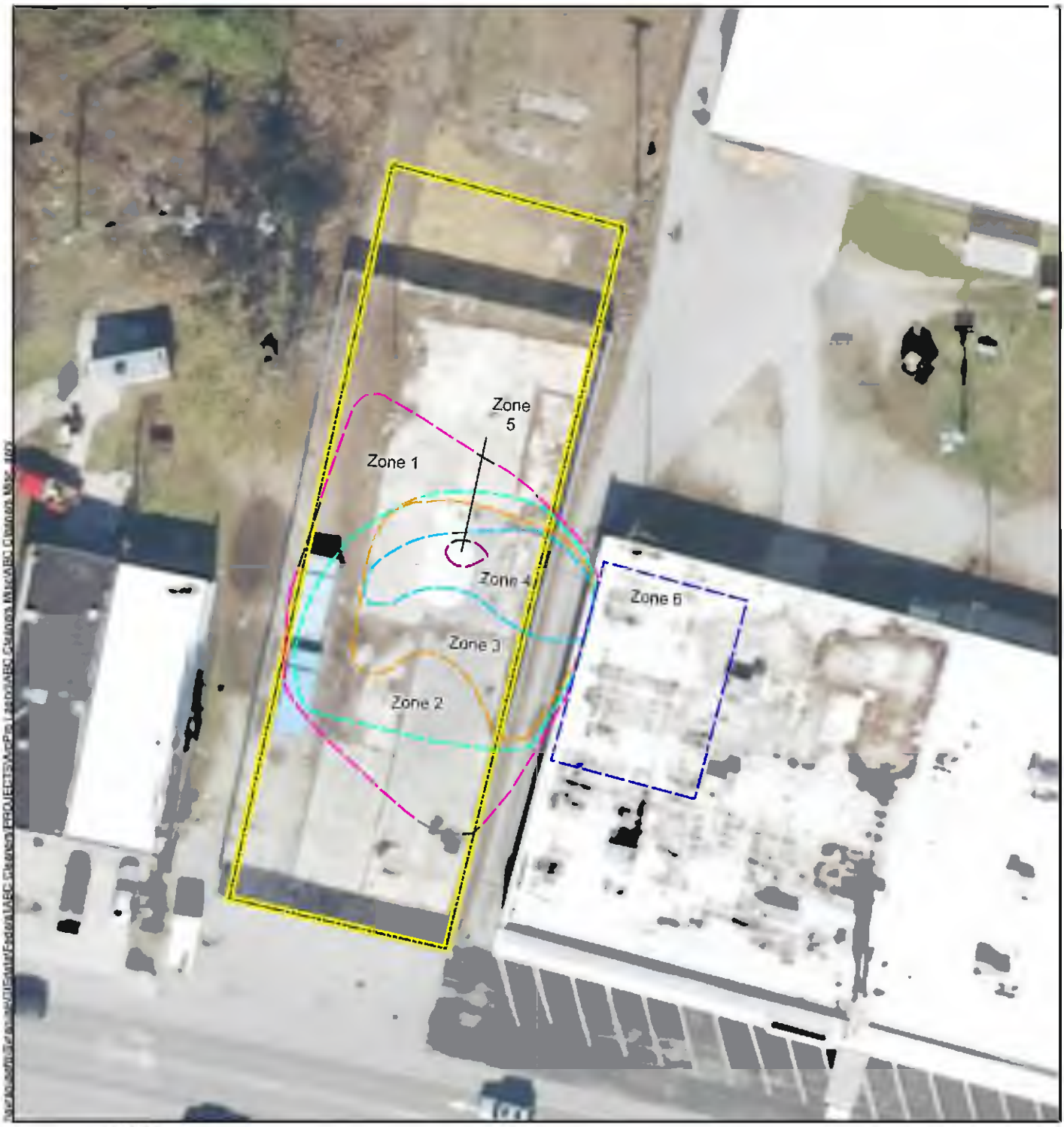



Legend

ISTR Treatment Zone
- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5
- Zone 6
- Site Boundary
- Site Location

0 35 70
Feet

N

Figure 1-4
ISTR Treatment Zones
ABC One-Hour Cleaners Superfund Site OU3
Jacksonville, Onslow County, North Carolina

Map Date: 10/29/2024

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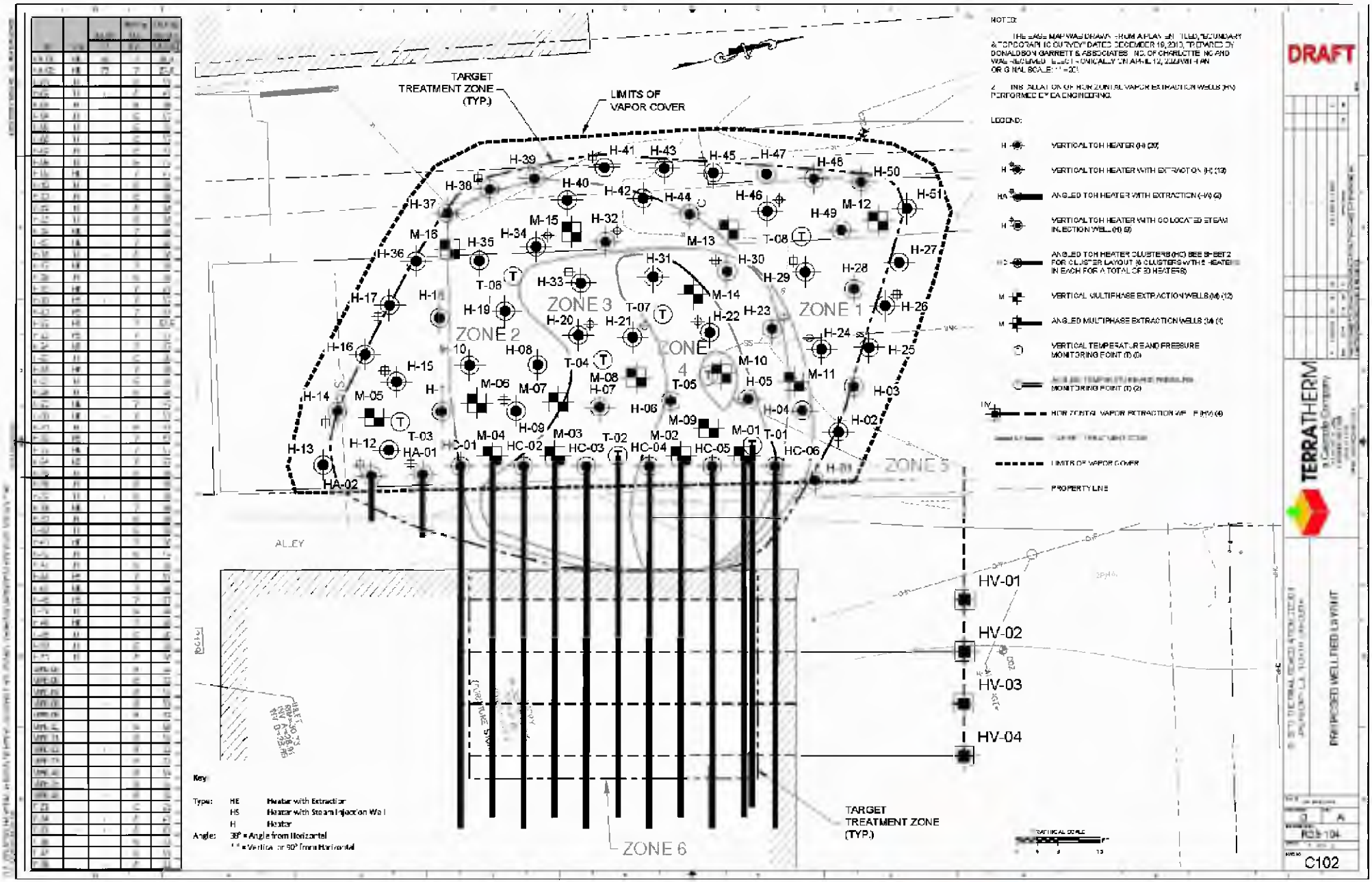
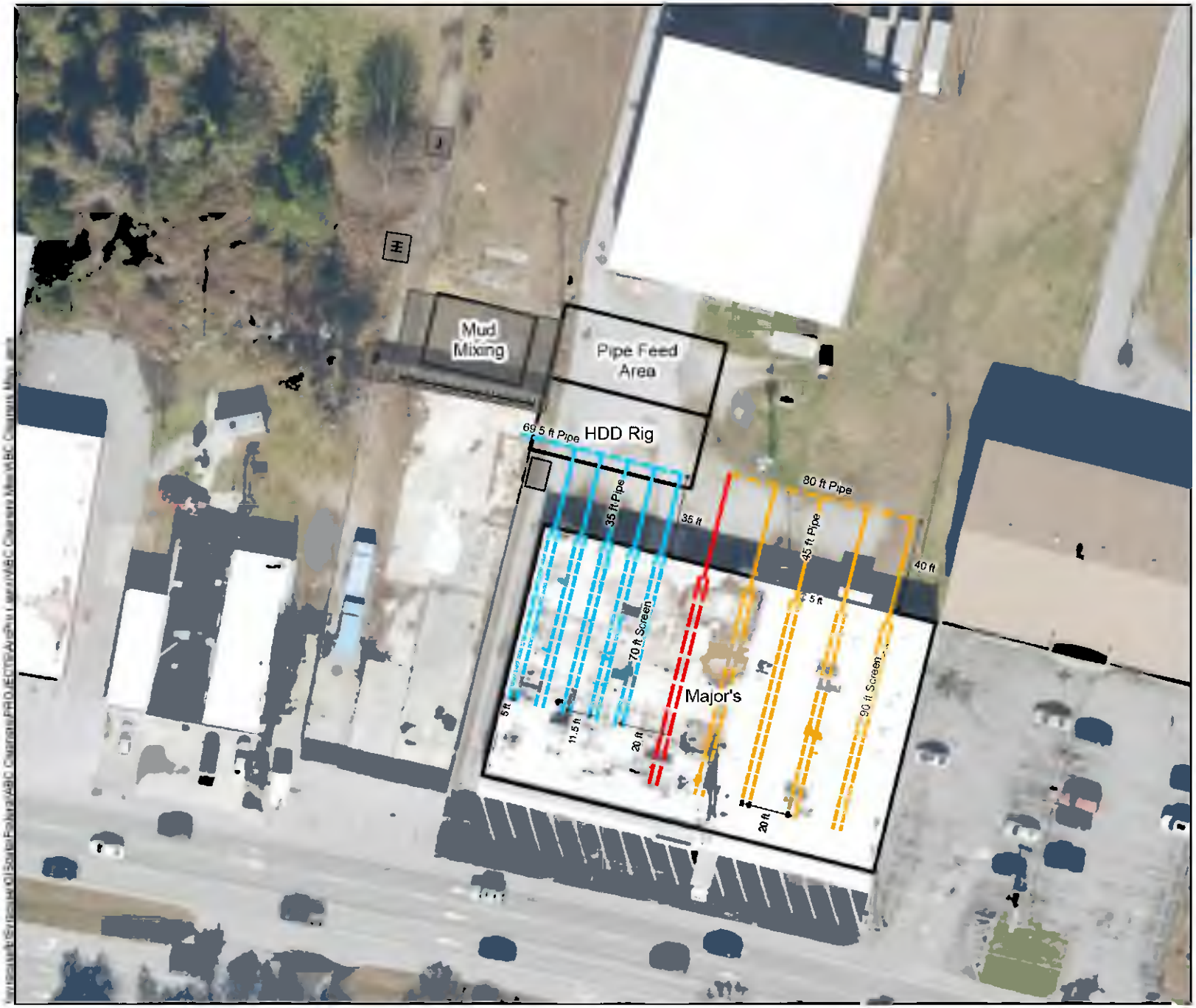


Figure 1-5
ISTR Wellfield Design
ABC One-Hour Cleaners Superfund Site OU3
Jacksonville, Onslow County, North Carolina





Legend

- Steel Pipe
- Steel Screen
- HVEW Conveyance Pipe
- PVC Pipe
- PVC Screen
- SVE Conveyance Pipe
- CPVC Pipe
- CPVC Screen
- Subslab HSVE Point
- HSVE Screen
- Site Features

Map Date: 12/18/2024
Projection: NAD 83 State Plane North Carolina 3200 US Feet
Source: Esri

Figure 1-6
HSVE Layout
ABC One-Hour Cleaners Superfund Site OU3
Jacksonville, Onslow County, North Carolina





Legend

- Site Boundary
- Abandoned Monitoring Well
- Site Location

0 40 80
Feet

Figure 2-1
Preconstruction Well Abandonment
ABC One-Hour Cleaners Superfund Site OU3
Jacksonville, Onslow County, North Carolina

Map Date: 10/29/2024

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Figure 4-1. Average Site
TTZ Temperature

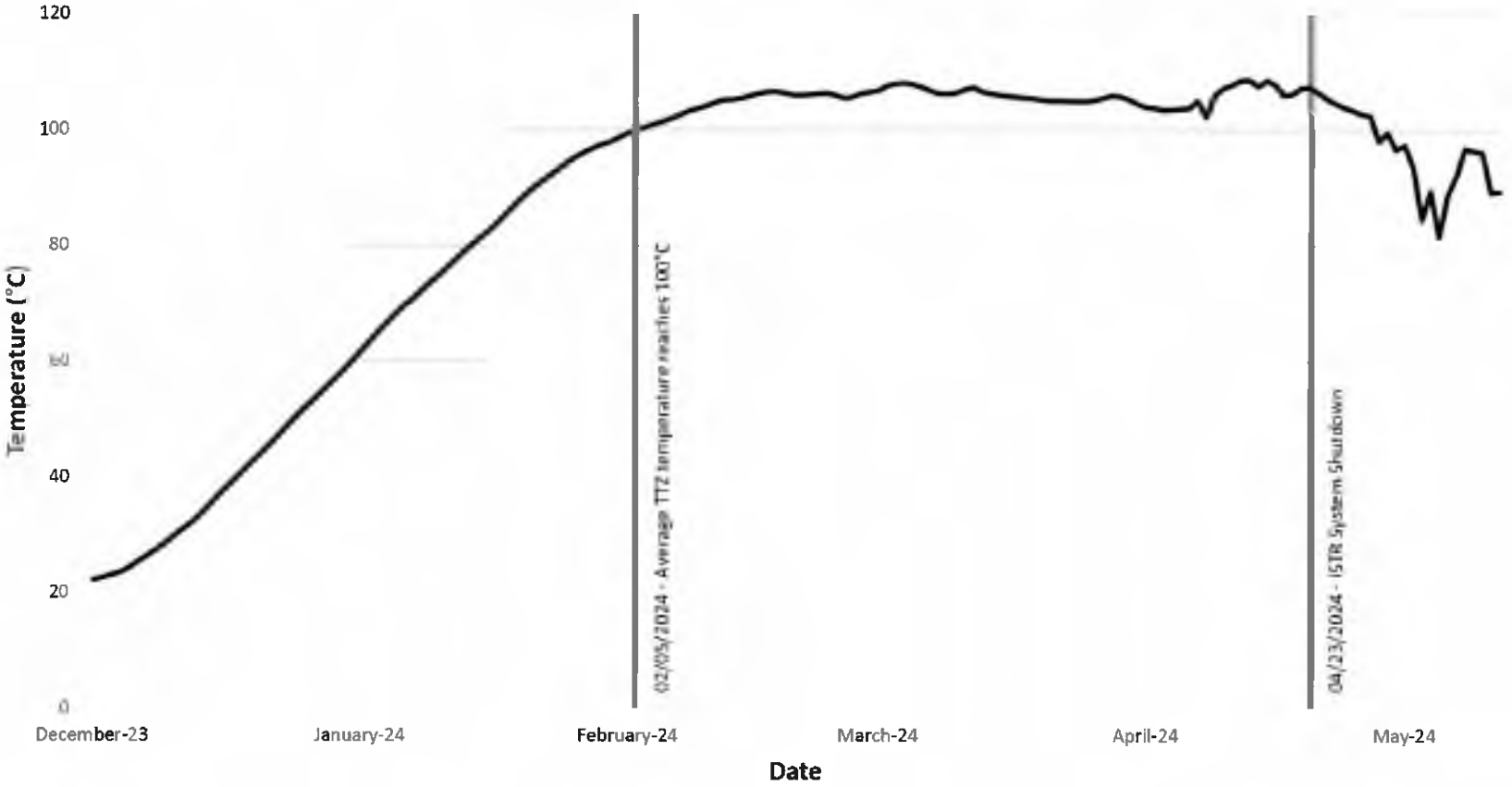


Figure 4-2. LGAC Influent VOC Concentrations

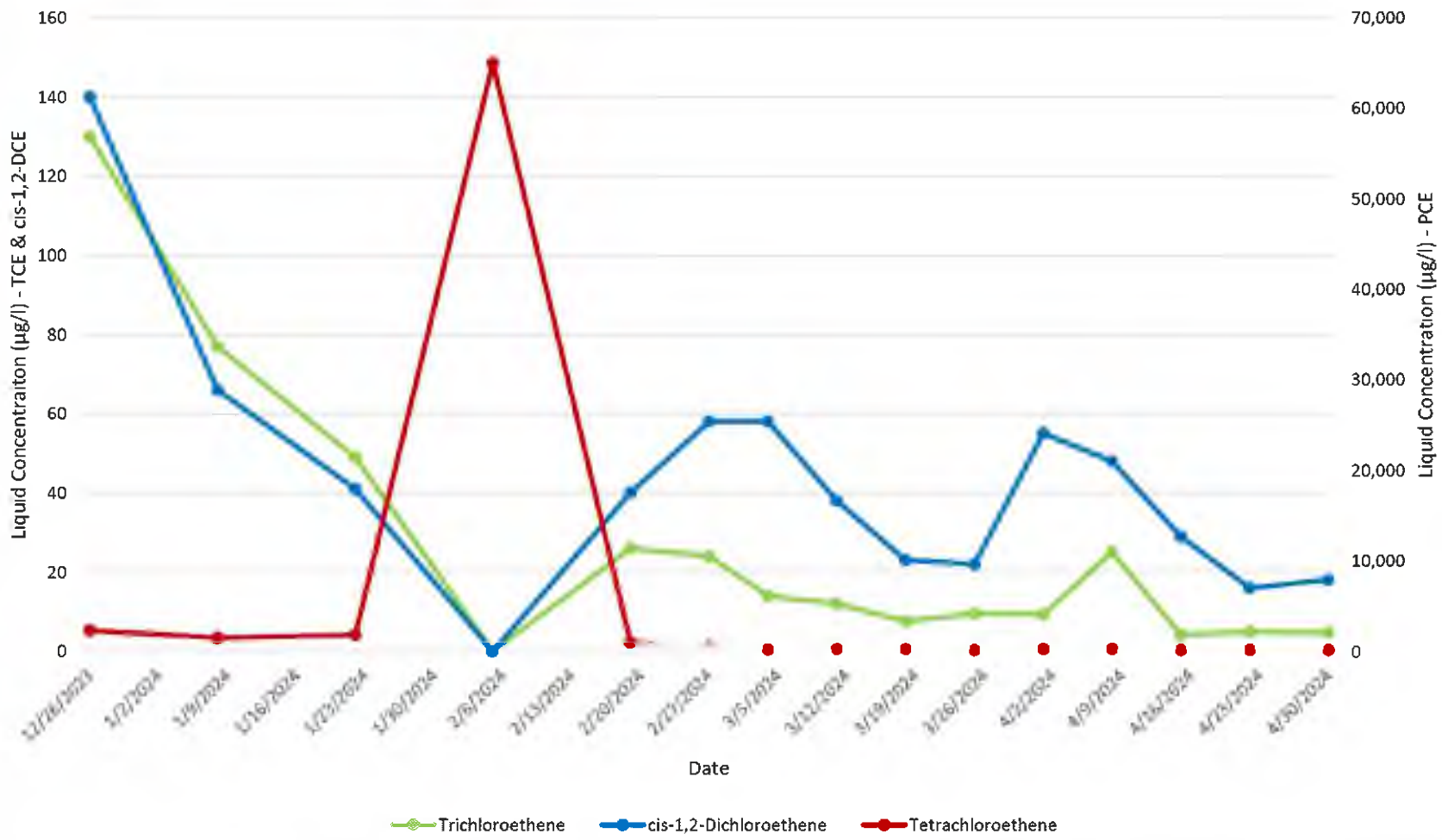


Figure 4-3. Soil Vapor VOC Concentrations

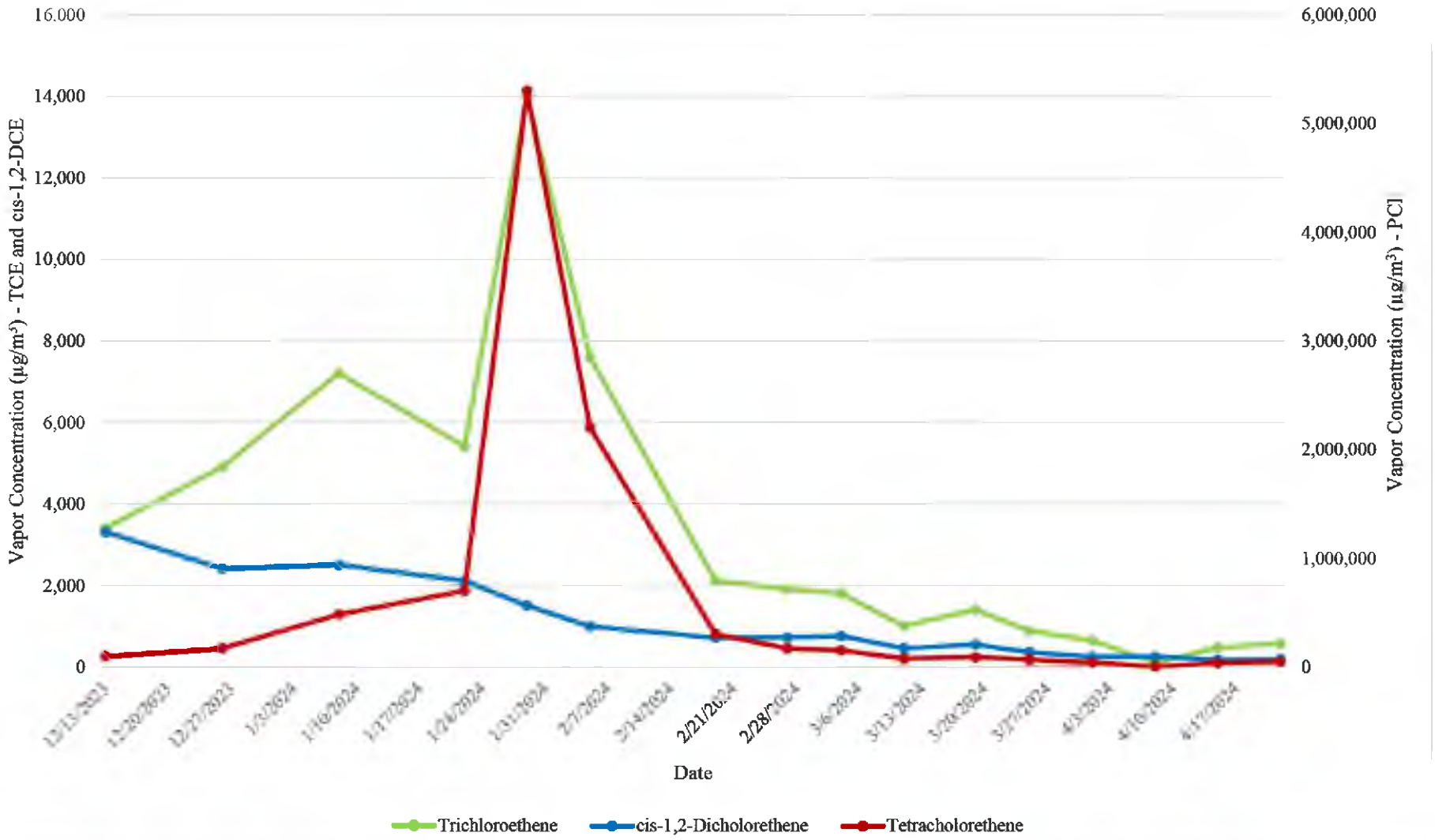
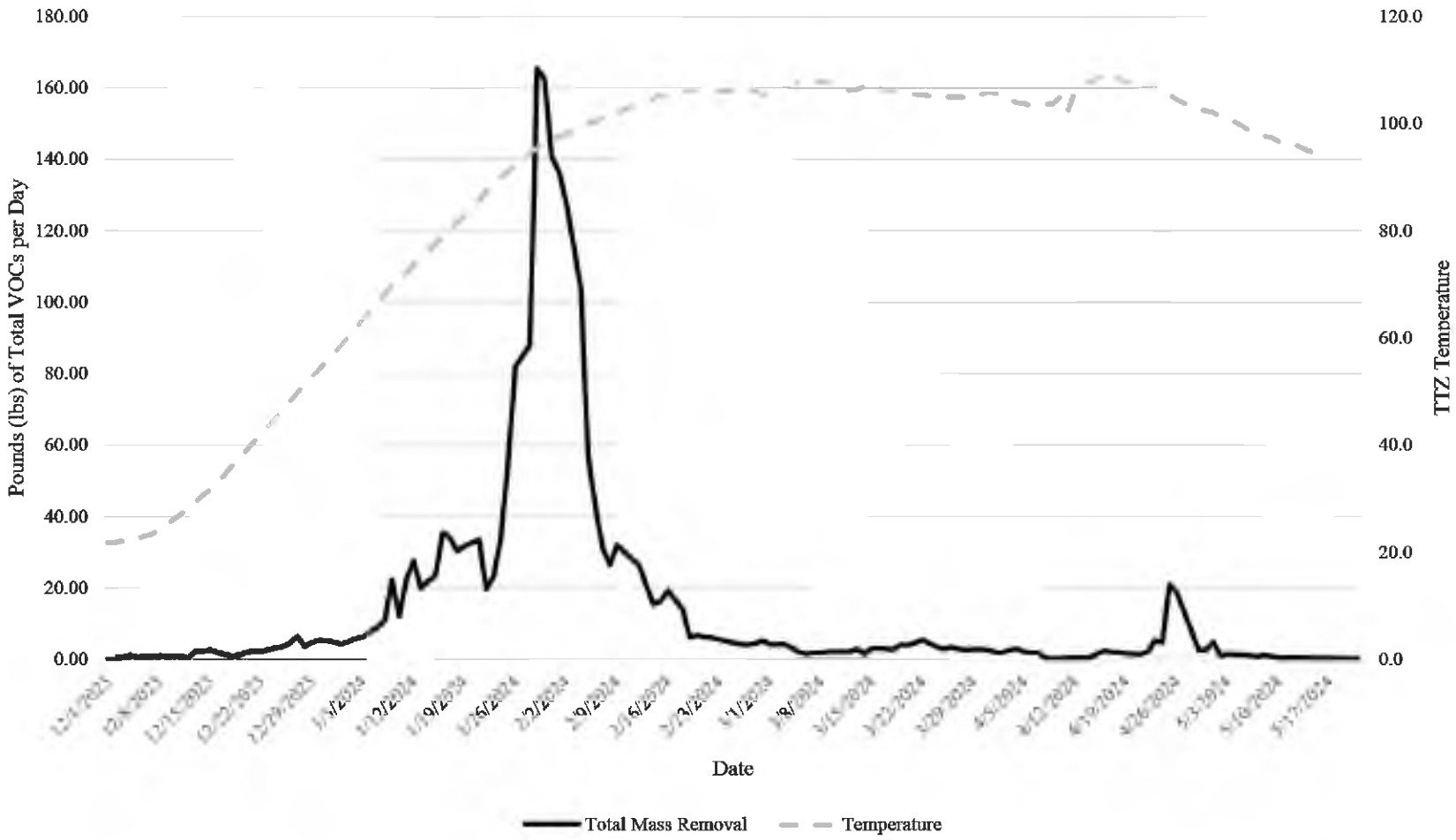


Figure 4-4. VOC Mass Removal Trends During ISTR







Legend

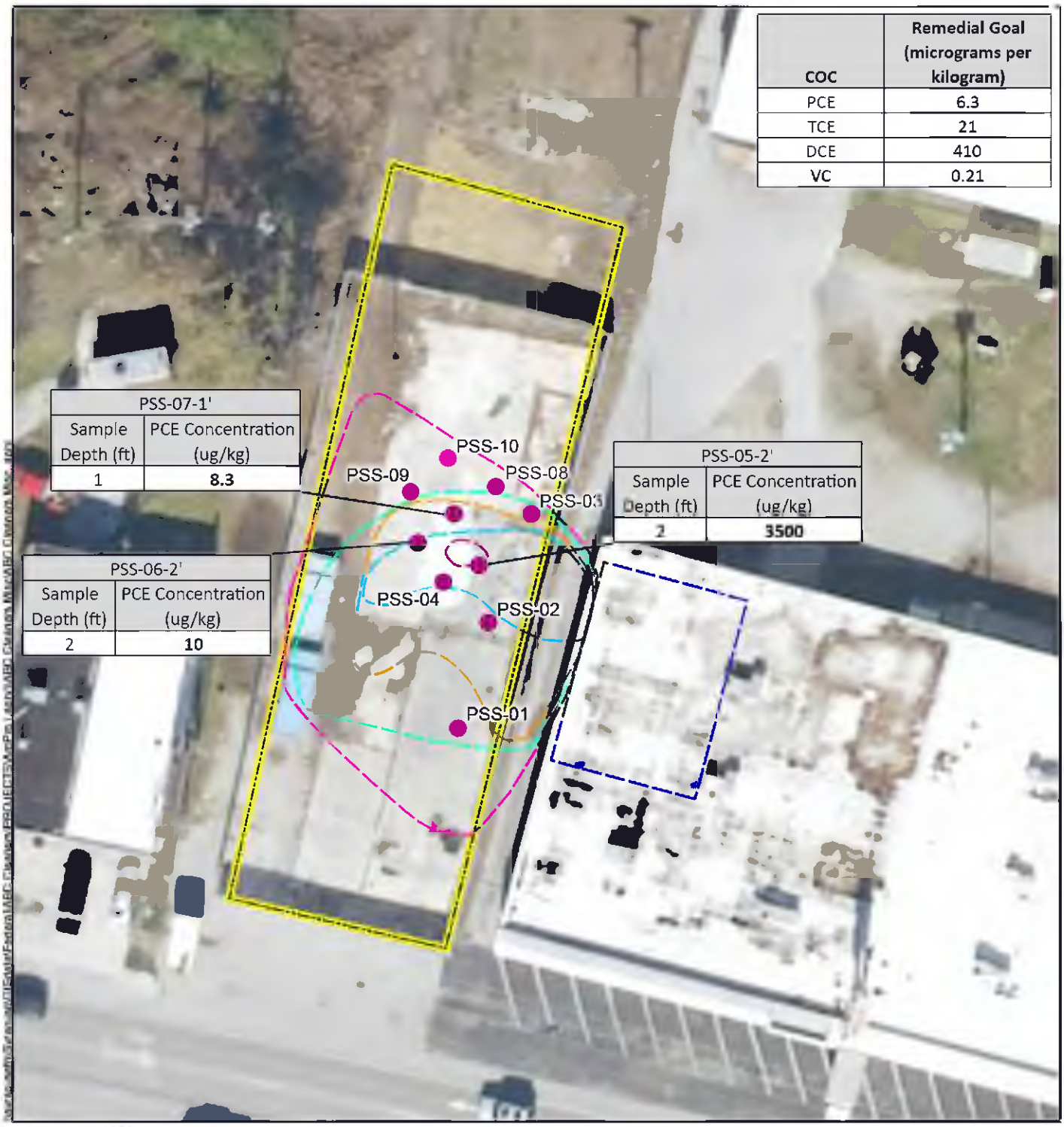
- Site Boundary
- Soil Boring
- Site Location

0 45 90
Feet

Figure 4-5
Post-Remediation Confirmation Soil Sampling
ABC One-Hour Cleaners Superfund Site OU3
Jacksonville, Onslow County, North Carolina

Notes:
Tetrachloroethene (PCE) detections are shown in units of ug/kg.
The detection limit for PCE is 6.3 ug/kg.

Map Date: 10/29/2024



COC	Remedial Goal (micrograms per kilogram)
PCE	6.3
TCE	21
DCE	410
VC	0.21

PSS-07-1'	
Sample Depth (ft)	PCE Concentration (ug/kg)
1	**8.3**

PSS-05-2'	
Sample Depth (ft)	PCE Concentration (ug/kg)
2	**3500**

PSS-06-2'	
Sample Depth (ft)	PCE Concentration (ug/kg)
2	**10**



Legend

ISTR Treatment Zone
- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5
- Zone 6
- Site Boundary
- Shallow Soil Sample Locations
- Site Location

0 35 70
Feet

Figure 4-6
Shallow Soil Sampling Results
July 2024
ABC One-Hour Cleaners
Superfund Site OU3
Jacksonville, Onslow County,
North Carolina

Map Date: 10/29/2024

Appendix A

Pre-Remedial Investigation Summary and Impacts on Thermal Treatment Areas Described in the 2020 Remedial Design

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20 June 2023

TECHNICAL MEMORANDUM

TO: Anna Cornelious Martin, TOCOR
Environmental Protection Agency, Region 4

FROM: Joe Von Uderitz, Project Manager – EA

SUBJECT: Pre-Remedial Investigation Summary and Impacts on Thermal Treatment Areas Described in the 2020 Remedial Design
ABC One Hour Cleaners Superfund Site OU3
Contract No. 68HERH19D0008, Order No. 68HE0422F0079

1. PRE-REMEDIAL INVESTIGATION SUMMARY

EA Engineering, Science, and Technology, Inc., PBC's (EA's) Pre-Remedial Investigation (PRI) completed in January 2023 focused on closing existing data gaps including the lateral and vertical source material delineation beneath the Major's Furniture & Appliance building to the east of the ABC One-Hour Cleaners site to confirm Black and Veatch's interpreted source area found in the remedial design (RD). Additional data collected also assisted in the establishment of baseline conditions addressed during the PRI include potential impacts from the septic tank removal on vertical and surface contaminant migration, verification of the square footage of the surface soil treatment areas identified in the RD, verification of the location of the transmissive zone within thermal treatment areas and the confirmation of on-site geotechnical characteristics.

Figure 1 shows the PRI vertical and angled boring locations along with the maximum concentrations encountered at each boring. **Table 1** summarizes all the boring analytical results by depth.

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Figure 1. Pre-Remediation Investigation – Maximum Results



Table 1. Pre-Remediation Investigation Boring Results by Location

Site Contaminant of Concern	PRG	Industrial Soil RSL	Unit	Boring	AB-N22									
				Depth (ft bgs)	12	18	24	30	36	42	48	54	60	66
				Sample Type	N	N	N	N	N	N	N	N	N	N
cis-1,2-Dichloroethene	410	370	µg/kg		**0.82 J**	< 6.4 U	< 6.5 U	< 5.7 U	< 5.2 U	1.7 J	**0.67 J**	**0.59 J**	4.3 J	16
Tetrachloroethene	6.3	100	µg/kg		**3.4 J**	**1.6 J**	**1.5 J**	< 5.7 U	< 5.2 U	6.4	**2.7 J**	**1.3 J**	9.9	71
trans-1,2-Dichloroethene	410	300	µg/kg		< 5.5 U	< 6.4 U	< 6.5 U	< 5.7 U	< 5.2 U	< 4.8 U	< 4.5 U	< 4.9 U	< 5.2 U	< 4.7 U
Trichloroethene	21	6	µg/kg		< 5.5 U	< 6.4 U	< 6.5 U	< 5.7 U	< 5.2 U	0.92 J	< 4.5 U	< 4.9 U	2.3 J	10
Vinyl chloride	0.21	1.7	µg/kg		< 5.5 U	< 6.4 U	< 6.5 U	< 5.7 U	< 5.2 U	< 4.8 U	< 4.5 U	< 4.9 U	< 5.2 U	< 4.7 U

Site Contaminant of Concern	PRG	Industrial Soil RSL	Unit	Boring	AB-N55												
				Depth	18	18	24	30	36	42	48	54	54	60	66	72	78
				Sample Type	N	FD	N	N	N	N	N	N	FD	N	N	N	N
cis-1,2-Dichloroethene	410	370	µg/kg		**800**	**750 J**	**360 J**	24	84	< 360 U	< 380 U	< 360 U	< 390 U	< 5.6 U	< 5.4 U	< 5.5 U	< 5.7 U
Tetrachloroethene	6.3	100	µg/kg		**6,500**	**28,000**	**1,200**	**110**	**500**	**1,500**	**1,800**	**3,300**	**6,400**	< 5.6 U	< 5.4 U	< 5.5 U	< 5.7 U
trans-1,2-Dichloroethene	410	300	µg/kg		< 370 U	< 1300 U	< 390 U	< 4.9 U	1.2 J	< 360 U	< 380 U	< 360 U	< 390 U	< 5.6 U	< 5.4 U	< 5.5 U	< 5.7 U
Trichloroethene	21	6	µg/kg		**870**	**1,600**	**540**	14	**89**	**120 J**	< 380 U	< 360 U	< 390 U	< 5.6 U	< 5.4 U	< 5.5 U	< 5.7 U
Vinyl chloride	0.21	1.7	µg/kg		< 370 U	< 1300 U	< 390 U	< 4.9 U	< 5.9 U	< 360 U	< 380 U	< 360 U	< 390 U	< 5.6 U	< 5.4 U	< 5.5 U	< 5.7 U

Site Contaminant of Concern	PRG	Industrial Soil RSL	Unit	Boring	AB-S22												
				Depth	6	6	12	18	24	24	30	36	42	48	54	60	66
				Sample Type	N	FD	N	N	N	FD	N	N	N	N	N	N	N
cis-1,2-Dichloroethene	410	370	µg/kg		7.3 J	7.7	30	210	69	52	**1.6 J**	< 5.9 U	< 4.8 U	**2.1 J**	< 7.3 U	**3.3 J**	**2.2 J**
Tetrachloroethene	6.3	100	µg/kg		**59**	**83**	**280 J**	**82**	**27**	**35**	**5.6 J**	**1.6 J**	< 4.8 U	**3.1 J**	**1.4 J**	**11**	**4.6 J**
trans-1,2-Dichloroethene	410	300	µg/kg		< 7.9 U	< 7.2 U	**0.96 J**	**5.0 J**	**1.8 J**	**1.3 J**	< 6.9 U	< 5.9 U	< 4.8 U	< 5.3 U	< 7.3 U	< 6.8 U	< 7.5 U
Trichloroethene	21	6	µg/kg		**8.4**	**10**	**38**	**110**	**31**	**28**	**1.1 J**	< 5.9 U	< 4.8 U	< 5.3 U	< 7.3 U	**1.5 J**	< 7.5 U
Vinyl chloride	0.21	1.7	µg/kg		< 7.9 U	< 7.2 U	< 6.8 U	< 6.4 U	< 6.7 U	< 7.1 U	< 6.9 U	< 5.9 U	< 4.8 U	< 5.3 U	< 7.3 U	< 6.8 U	< 7.5 U

Site Contaminant of Concern	PRG	Industrial Soil RSL	Unit	Boring	AB-S55											
				Depth	7	7	14	21	28	35	42	49	56	63	70	77
				Sample Type	N	FD	N	N	N	N	N	N	N	N	N	N
cis-1,2-Dichloroethene	410	370	µg/kg		< 5.8 U	< 6.7 U	2.5 J	< 6.4 U	1.6 J	< 6.3 U	**160 J**	< 6.3 U	< 7.4 U	< 6.3 U	< 5.4 U	< 6.1 U
Tetrachloroethene	6.3	100	µg/kg		**12**	**18**	**26**	**3.2 J**	**11**	**10**	**1,500**	**49**	< 7.4 U	< 6.3 U	< 5.4 U	< 6.1 U
trans-1,2-Dichloroethene	410	300	µg/kg		< 5.8 U	< 6.7 U	< 6.8 U	< 6.4 U	< 6.3 U	< 6.3 U	< 450 U	< 6.3 U	< 7.4 U	< 6.3 U	< 5.4 U	< 6.1 U
Trichloroethene	21	6	µg/kg		**0.89 J**	**1.5 J**	**2.7 J**	< 6.4 U	**0.92 J**	< 6.3 U	**120 J**	< 6.3 U	< 7.4 U	< 6.3 U	< 5.4 U	< 6.1 U
Vinyl chloride	0.21	1.7	µg/kg		< 5.8 U	< 6.7 U	< 6.8 U	< 6.4 U	< 6.3 U	< 6.3 U	< 450 U	< 6.3 U	< 7.4 U	< 6.3 U	< 5.4 U	< 6.1 U

Table 1. Pre-Remediation Investigation Boring Results by Location

Site Contaminant of Concern	PRG	Industrial Soil RSL	Unit	Boring	DPT1002									
				Depth	10	19	25	35	45	55	60	65	70	74
				Sample Type	FD	N	N	N	N	N	N	N	N	N
cis-1,2-Dichloroethene	410	370	µg/kg		< 5.2 U	< 5.5 U	< 5.9 U	< 15 U	< 8.3 U	< 17 U	< 7.7 U	< 13 U	< 8.0 U	< 10 U
Tetrachloroethene	6.3	100	µg/kg		< 5.2 U	< 5.5 U	**5.7 J**	< 15 U	< 8.3 U	< 17 U	< 7.7 U	< 13 U	< 8.0 U	< 10 U
trans-1,2-Dichloroethene	410	300	µg/kg		< 5.2 U	< 5.5 U	< 5.9 U	< 15 U	< 8.3 U	< 17 U	< 7.7 U	< 13 U	< 8.0 U	< 10 U
Trichloroethene	21	6	µg/kg		< 5.2 U	< 5.5 U	< 5.9 U	< 15 U	< 8.3 U	< 17 U	< 7.7 U	< 13 U	< 8.0 U	< 10 U
Vinyl chloride	0.21	1.7	µg/kg		< 5.2 U	< 5.5 U	< 5.9 U	< 15 U	< 8.3 U	< 17 U	< 7.7 U	< 13 U	< 8.0 U	< 10 U

Site Contaminant of Concern	PRG	Industrial Soil RSL	Unit	Boring	DPT1004											
				Depth	2	9	14	19	19	24	28	32	39	45	55	65
				Sample Type	N	N	N	N	FD	N	N	N	N	N	N	N
cis-1,2-Dichloroethene	410	370	µg/kg		**0.53 J**	**10**	**22**	**60**	**68**	**110**	**36**	< 5.8 U	< 5.7 U	< 5.7 U	< 6.5 U	< 6.9 U
Tetrachloroethene	6.3	100	µg/kg		**3.3 J**	**24**	**69**	**1,600**	**2,100**	**2,400**	**620 J**	< 5.8 U	< 5.7 U	< 5.7 U	< 6.5 U	< 6.9 U
trans-1,2-Dichloroethene	410	300	µg/kg		< 4.8 U	< 5.3 U	< 7.1 U	**0.60 J**	**0.78 J**	**0.99 J**	< 5.3 U	< 5.8 U	< 5.7 U	< 5.7 U	< 6.5 U	< 6.9 U
Trichloroethene	21	6	µg/kg		< 4.8 U	**3.3 J**	**8.5**	**50**	**58**	**85**	**23**	< 5.8 U	< 5.7 U	< 5.7 U	< 6.5 U	< 6.9 U
Vinyl chloride	0.21	1.7	µg/kg		< 4.8 U	< 5.3 U	< 7.1 U	< 4.9 U	< 5.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 5.7 U	< 5.7 U	< 6.5 U	< 6.9 U

Site Contaminant of Concern	PRG	Industrial Soil RSL	Unit	Boring	DPT1003										
				Depth	11	11	20	30	40	40	48	55	62	69	74
				Sample Type	N	FD	N	N	N	FD	N	N	N	N	N
cis-1,2-Dichloroethene	410	370	µg/kg		< 6.6 U	< 5.9 U	< 14 U	**0.92 J**	< 6.8 U	< 6.1 U	< 6.2 U	< 5.6 U	< 7.7 U	< 5.6 U	< 7.1 U
Tetrachloroethene	6.3	100	µg/kg		**5.3 J**	**3.0 J**	< 14 U	**4.4 J**	< 6.8 U	< 6.1 U	< 6.2 U	< 5.6 U	< 7.7 U	< 5.6 U	< 7.1 U
trans-1,2-Dichloroethene	410	300	µg/kg		< 6.6 U	< 5.9 U	< 14 U	< 6.8 U	< 6.8 U	< 6.1 U	< 6.2 U	< 5.6 U	< 7.7 U	< 5.6 U	< 7.1 U
Trichloroethene	21	6	µg/kg		< 6.6 U	< 5.9 U	< 14 U	**0.95 J**	< 6.8 U	< 6.1 U	< 6.2 U	< 5.6 U	< 7.7 U	< 5.6 U	< 7.1 U
Vinyl chloride	0.21	1.7	µg/kg		< 6.6 U	< 5.9 U	< 14 U	< 6.8 U	< 6.8 U	< 6.1 U	< 6.2 U	< 5.6 U	< 7.7 U	< 5.6 U	< 7.1 U

Notes:

All results are compared to the PRGs. The Industrial RSL is also shown for reference.

Highlighted results indicate an exceedance of the PRG for that analyte.

Bolded results indicate a detection of that compound

µg/kg = Microgram(s) per kilogram
FD = Field duplicate
ft bgs = Feet below ground surface
J = The reported result is an estimate.
N = Normal
PRG = Project Remedial Goal
RSL = Regional Screening Level Total Hazard Quotient = 1.0, November 2022
U = The analyte was not detected in the sample at the detection limit

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There were exceedances of the 6.3 µg/kg PRG for tetrachloroethene (PCE) at AB N22, AB-N55, AB-S22, and AB-S55 beneath Major's Furniture & Appliance and from DPT1004 on-site. The highest PCE concentration of 6,400 µg/kg was found at 54 ft bgs from location AB-N55, which is a 55 degrees from horizontal angled boring extended from the ABC property boundary beneath Major's Furniture & Appliance.

There were exceedances of the 21 µg/kg PRG for trichloroethene (TCE) at AB-N55, AB-S22, AB-S55, and DPT1004. The highest TCE concentration of 1,600 µg/kg was found at 18 ft bgs from location AB-N55.

There were exceedances of the 410 µg/kg PRG for *cis*-1,2-DCE at AB-N55 at 18 ft bgs (800 µg/kg) and 24 ft bgs (360 J µg/kg).

There were detections, but no exceedances, of the PRG for *trans*-1,2-DCE at AB-N55, AB-S22, and DPT1004. There were no detections for vinyl chloride above detection limits in any of the PRI locations sampled. The PRI results established that there were exceedances of several other PRGs from samples collected beneath Major's Furniture & Appliance to the east of the Site and on-site.

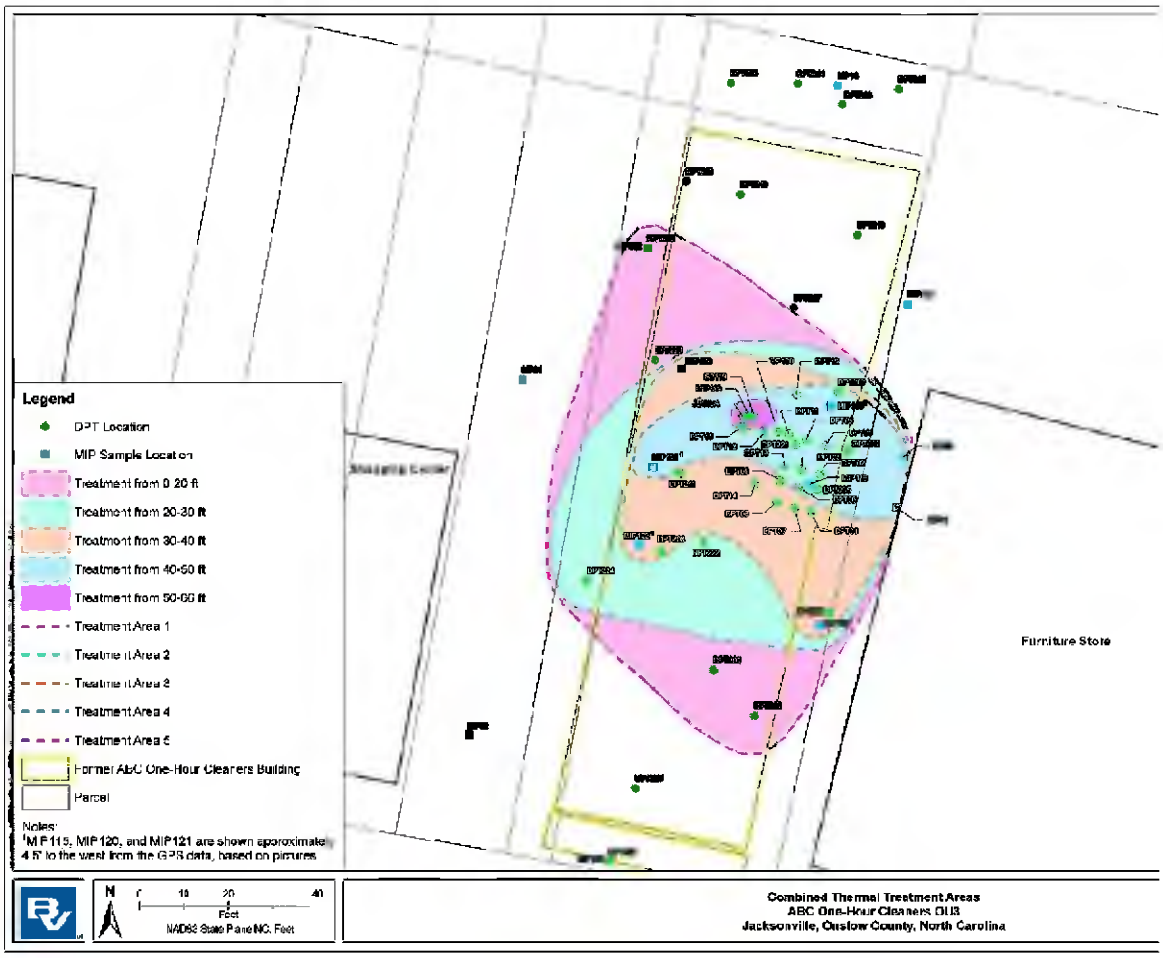
These PRI results supported the proposed addition of Thermal Zone 6 beneath Major's Furniture & Appliance discussed in more detail later in this technical memorandum.

2. THERMAL TREATMENT ZONES

The in situ thermal remediation (ISTR) target treatment zone (TTZ) is now proposed to be organized into six zones - Zones 1, 2, 3, 4, and 5 originally in the RD and a newly proposed Zone 6 under Major's Furniture & Appliance. These zones correspond to varying treatment depths extending from ground surface to between 20 and 66 ft bgs. As shown on **Figure 2** taken from the RD, Zones 1–5 have telescoping treatment depths, with the outermost zone (i.e., Zone 1) treating to 20 ft bgs, and each successive interior zone extending deeper.

Treatment Zones 1 through 5 were defined in the RD; however, Zone 6 is proposed by EA and TerraTherm to be added following the PRI conducted in January 2023. Treatment Zones 1 through 5 are located below the former ABC One-Hour Cleaners facility and a portion of the two adjacent alleys to the east and west. Zones 1–5 have a combined treatment area of 6,492 square feet (ft^2) and treatment volume of 7,897 cubic yards (CY). Zones 1 through 5 were determined based on the concentrations of contaminants of concern in soil, primarily PCE, above soil remedial goals to address source material and to eliminate further leaching into the underlying groundwater media.

Figure 2. Combined Thermal Treatment Areas from the Remedial Design



2.1 TREATMENT ZONE 6

As part of the PRI, a series of vertical and angled soil characterization borings and hydraulic profiling tool points were installed to address data gaps. Based on these results, Zone 6 is proposed to be added. Treatment Zone 6 is located on the eastern portion of the Site underneath the Major's Furniture & Appliance store (Building) and spans an area of 2,200 ft² and a volume of 3,259 CY. This area represents a 40 ft (north to south) by 55 ft (east to west) footprint below the Major's Furniture & Appliance directly above the high concentration Surficial Aquifer groundwater plume depicted on **Figure 3** and was not accounted for in the 2020 Remedial Design.

The proposed Zone 6 below Major's Furniture & Appliance was determined based on soil characterization results collected from angled borings installed below the building during the PRI and an assumed extent of the PCE source material based on groundwater data collected during previous remedial investigations. The proposed extent of treatment also reflects the practical limitations of treating below Major's Furniture & Appliance while minimizing disruption to the business during both construction and operation of the ISTR system. Proposed treatment of source material (**Figure 3**) and installation of a sub-slab depressurization system below Major's Furniture & Appliance addresses the potential for vapor intrusion in the immediate vicinity of the source

area and below the active business to support achievement of the first remedial action objective. Additionally, **Figure 4** shows the three-dimensional extent of the plume below Major's Furniture store based primarily on historical data and updated with the additional PRI data.

As summarized in **Table 2**, the total revised treatment area is 8,692 ft^2 and the revised total treatment volume is 11,156 CY after updating the Thermal Treatment Areas with the data gap information from the PRI and the addition of a proposed Zone 6.

Figure 3. ISTR Wellfield Layout

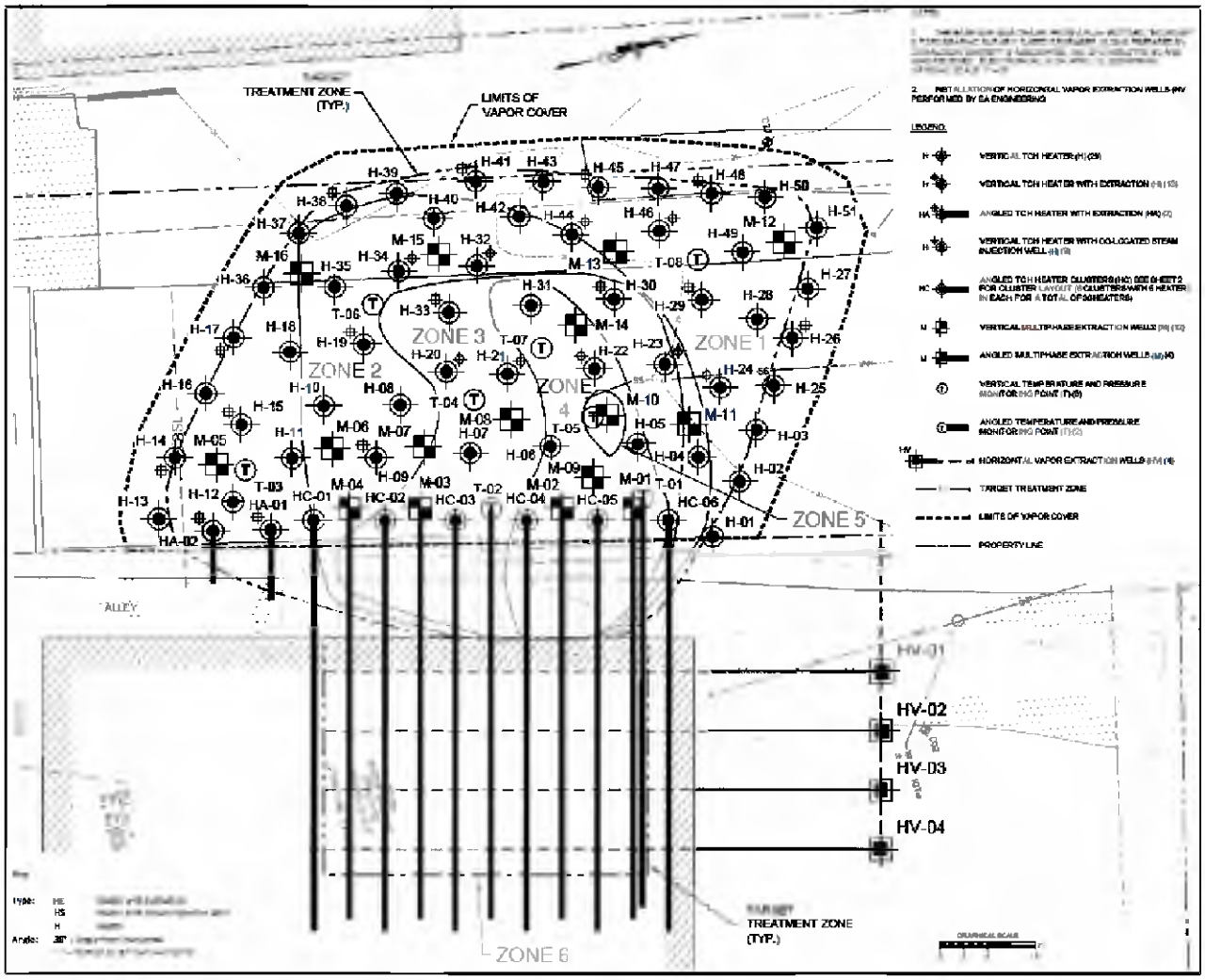
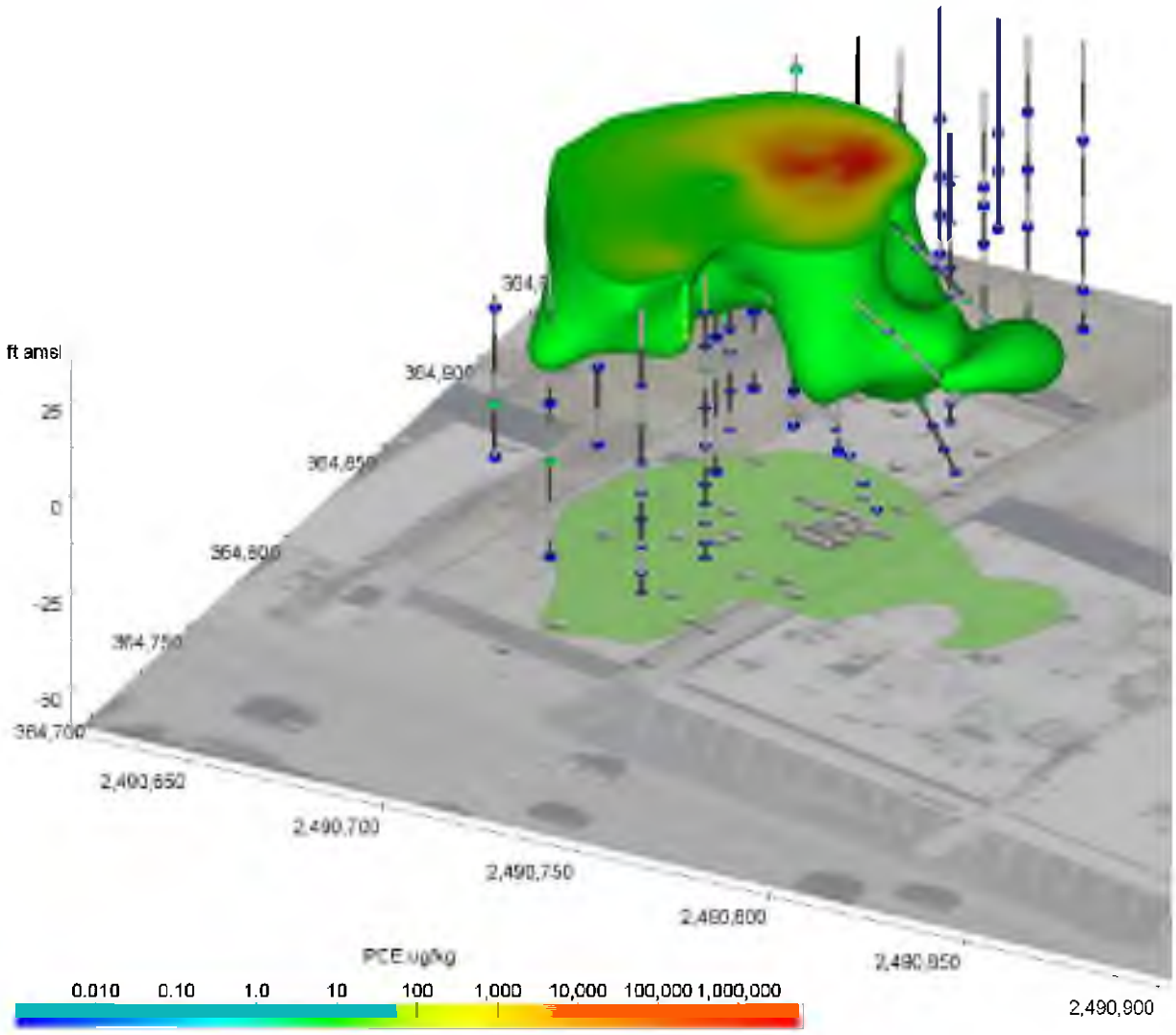


Figure 4. EVS Model Showing Plume Extent Under Major's Furniture



2.2 REFINEMENTS TO TREATMENT ZONES 1–5

After reviewing the hydraulic profiling tool profiles collected during the PRI and comparing to hydrogeological data presented in the RD, the range in hydraulic conductivities measured in the Surficial Aquifer (i.e., 50–80 feet per day [ft/day]) during the PRI appears closer to the hydraulic conductivities reported in the RD for the more transmissive underlying Castle Hayne Aquifer. Those conductivities ranged from 3 to 109 ft/day with an average of 56 ft/day. The RD reported hydraulic conductivities ranging from 9 to 14 ft/day in the Surficial Aquifer.

To address this potential for higher groundwater flux, supplemental steam injection wells were added to select heater locations (i.e., co-located in the same borehole) and some heaters were extended deeper into the TTZ to preheat groundwater entering Zone 6. Inclusion of supplemental steam will offset heating losses in the more transmissive portions of the Surficial aquifer. All wellfield borings and wells treating below the eastern alley and Major's Furniture & Appliance are proposed for installation using angled drilling methods to ensure minimal disruption to the store's business operations. Plan view extents of the TTZ are shown on **Figure 1**, and a summary of TTZ dimensions is provided in **Table 2**.

Table 2. TTZ Definition

Zone	Area (ft^2)	Top of TTZ (ft bgs)	Bottom of TTZ (ft bgs)	TTZ Thickness (ft)	Treatment Volume (CY)
1	2,160	0	20	20	1,600
2	1,581	0	30	30	1,757
3	1,589	0	40	40	2,354
4	1,104	0	50	50	2,044
5	58	0	66	66	142
6	2,200	10	50	40	3,259
Total	**8,692**				**11,156**

If any other information is needed, please let EA know.

cc: Beth Hartzell, (NCDEQ) (electronic copy); beth.hartzell@ncdenr.gov

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Appendix B

TerraTherm Final Report

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ADVISE | DESIGN | BUILD | OPERATE

TERRATHERM
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In Situ Thermal Treatment Final Report

EA Engineering

ABC One-Hour Cleaners Superfund Site

Jacksonville, NC

August 2024

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APPENDICES

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Appendix C – Stack Emissions Calculations
Appendix D – Laboratory Analytical Results Summary Tables
Appendix E – Confirmatory Soil Sampling Results

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ACRONYMS AND ABBREVIATIONS

%	percent
°C	Degrees Celsius
µg/kg	Micrograms per Kilogram
µg/m3	Micrograms per Cubic Meter
COC	Contaminant of Concern
DCE	1,2-dichloroethane
EA	EA Engineering, Science, and Technology, Inc. PBC
EPA	Environmental Protection Agency
ft	Feet
ft2	Square Feet
ft bgs	Feet Below Ground Surface
gpm	Gallons per Minute
HVEW	Horizontal Vapor Extraction Well
ISTT	In Situ Thermal Treatment
KMnO4	Potassium Permanganate
kW	Kilowatts
kWh	kilowatt hour
lbs	Pounds
lbs/day	Pounds per day
LGAC	Liquid-Phase Granular Activated Carbon
m3	Cubic Meters
mg/kg	Milligrams Per Kilogram
MPE	Multi-Phase Extraction
PCE	Tetrachloroethylene
PID	Photoionization Detector
ppmV	Parts Per Million by Volume
scf	Standard Cubic Feet
scfm	Standard Cubic Feet per Minute
SEE	Steam Enhanced Extraction
SIW	Steam Injection Well
TCE	Trichloroethene
TCH	Thermal Conduction Heating
TPMP	Temperature and Pressure Monitoring Point
TTZ	Target Treatment Zone
VC	Vinyl Chloride
VEW	Vapor Extraction Well
VGAC	Vapor-Phase Granular Activated Carbon
VMMP	Vapor Migration Monitoring Point
yd3	cubic yard

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1 EXECUTIVE SUMMARY

TerraTherm Inc. (TerraTherm) prepared this Final Report to present a summary of operations for the In Situ Thermal Treatment (ISTT) of volatile organic chemical impacts to soil and groundwater at the ABC One-Hour Cleaners Superfund Site (the Site), located at 2127 Lejeune Boulevard in Jacksonville, North Carolina. ISTT was performed under contract to EA Engineering, Science, and Technology, Inc., PBC (EA) on behalf of the United States Environmental Protection Agency (EPA).

A combination of Thermal Conduction Heating (TCH) and Steam Enhanced Extraction (SEE) was used to treat the target treatment zone (TTZ). The TTZ footprint was approximately 8,692 square feet (ft^2) and comprised a treatment volume of approximately 11,688 cubic yards (yd^3). The treatment area at the Site was divided into six zones (Zones 1 through 6) with each zone having different treatment depths. Zones 1 through 5 were located on the site of the former laundromat, treating from 0 feet below ground surface (ft bgs) to the deepest depth interval of 66 ft bgs. Zone 6 was located underneath the Majors Furniture Store, located east of the former ABC site, treating from 10 to 50 ft bgs.

Tetrachloroethylene (PCE) was the primary contaminant of concern (COC) within the TTZ. The TTZ was defined as a source area where concentrations of PCE were present above 6.3 micrograms per kilogram (µg/kg). The primary objectives of the ISTT were to eliminate material from the source to reduce leaching into groundwater and to the extent practical, reduce concentrations of each of the site-related contaminants to their respective soil cleanup levels.

A total of 83 TCH heaters, of which 12 TCH locations, had a co-located-steam injection well (SIW) and 42 TCH locations had co-located vapor extraction well (VEWs) were initially installed to heat the TTZ to volatilize the PCE. During the confirmatory soil sampling event near the end of operations two additional SIWs were installed in areas where temperature profiles indicated that extra energy was needed, bringing the total number of SIWs to 14. Contaminant vapors, liquid, and steam were extracted from 42 VEWs co-located with TCH heaters, 16 multi-phase extraction wells (MPEs), and 10 horizontal extraction wells (HVEWs) installed below the Majors Furniture Store. Eight temperature and pressure monitoring points (TPMPs) were used to monitor subsurface conditions in the wellfield throughout operations.

To the north of the ISTT TTZ, a shallow soil vapor extraction system was installed to address low levels of PCE in surficial soils. This system was constructed as specified in the ABC Remedial Design. Operation of the HSVE system occurred alongside the ISTT system; however, mass removal was tracked separately by measuring flow and vapors of the combined SVE influent prior to tying into the ISTT vapor treatment system.

ISTT and HSVE operations (active heating and vapor recovery) began on December 1, 2023. Heating operations were terminated on April 24, 2024, at the direction of EA following the analytical results of the confirmatory soil sampling event, which occurred from

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April 2 to April 4, 2024. Vapor recovery was terminated on May 21, 2024, after 173 days of operation. By the end of heating, the overall average TTZ temperature was approximately 107 degrees Celsius (°C), and a total of approximately 2,437 pounds (lbs) of mass was removed from the TTZ, with 2,319 lbs recovered from the vapor phase, and 117 lbs removed in the dissolved liquid phase.

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2 INTRODUCTION

TerraTherm prepared this ISTT Final Report on behalf of EA and EPA for ISTT at the ABC One-Hour Cleaners Superfund Site located in Jacksonville, North Carolina. A summary of the completed operation as well as the monitoring and maintenance of the in situ thermal system is included herein. A detailed discussion of site background, geology/hydrology, the thermal remediation mechanisms, and a basis for treatment system design are provided in TerraTherm's June 2023 ISTT Final Design Report (Work Plan).

The remaining sections of this report are as follows:

- Section 3 – Remedial Objectives
- Section 4 – ISTT and HSVE System Construction
- Section 5 – ISTT and HSVE System Operations
- Section 6 – Shutdown Evaluation and Soil Sampling
- Section 7 – ISTT System Demobilization

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3 REMEDIAL GOALS

The primary objective of thermal remediation and the SVE system was to remove source material and in turn, eliminate the presence of VI concerns under Majors Furniture Store on the east-adjacent property while minimizing its influence on the underlying groundwater media. By addressing the source material, the remedy would ultimately achieve the performance measures and/or the remedial goals (RGs) and remedial action objectives presented in the Interim Action Record of Decision. The RGs in Table 3.1, below, provide numerical criteria to measure the progress towards meeting the RAOs for the cleanup of soil.

Table 3.1. Overall Remedial Goals for OU3

COC	Remedial Goal (milligrams per kilogram)
PCE	0.0063
Trichloroethene (TCE)	0.021
1,2-dichloroethane (DCE)	0.41
Vinyl Chloride (VC)	0.00021

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4 ISTT AND SVE SYSTEM CONSTRUCTION

The TCH remediation process entails the use of equipment installed above and below ground for the treatment of subsurface contaminants. The major underground and aboveground operating components of the TCH system are described below. Well construction details, wellfield and mechanical layout drawings, and process flow and instrumentation diagrams are included in TerraTherm's June 2023 Final Design Report. TerraTherm's C102 Wellfield Layout Drawing and C103 Well Details drawing are included in **Appendix A**. Well Construction Logs are provided in **Appendix B**.

4.1 Well Installation

TerraTherm began well installation at the Site on May 18, 2023. The well network consisted of TCH heaters combined with SIWs and VEWs, MPEs, HVEWs, and TPMPs. Heaters were extended 6 feet (ft) beyond the bottom of the TTZ in Zones 1 and 2, and 7 ft in Zones 3 through 6 to account for heat loss across the bottom of the TTZ sub areas during heating and ensure the target temperature was achieved within the TTZ.

The ISTT well network initially included 83 heaters consisting of: 27 locations with only heaters, 42 locations with co-located VEWs, and 14 locations with co-located SIWs; 10 HVEWs; 16 MPEs; and 8 TPMPs. Of these wells, 2 TCH heaters were angled (62° and 73°), as well as 30 angled combination heater/VEW wells (22°, 35°, 48°, 66°, and 78°) to heat and extract material underneath the Majors Furniture store. The heater spacing was approximately 15 ft in the interior areas of the TTZ and approximately 13 ft along the perimeter. Typical well construction details for the Site are summarized in Table 4.1.

The HSVE system included five HSVE wells and one air entry well (AEW) installed per the specifications in the ABC Remedial Design.

Table 4.1. Typical Well Construction Details

Well Type	Depths of Borings [ft bgs]	# of Wells	Well Casing/Pipe Specifications
TCH Heaters	26-87.5	27	3-inch Schedule 40, Carbon Steel (CS) Pipe
TCH Heater w/ Co-located SIWs	52-68	14	3-inch Schedule 40, Carbon Steel (CS) Pipe1-inch CS40 Pipe with 1-inch Stainless Steel (SS), 0.010 Slotted Screen; CS40 Riser
TCH Heater w/ Co-located VEWs	13-41.5	42	3-inch Schedule 40, Carbon Steel (CS) Pipe1-inch CS40 Pipe with 1-inch Stainless Steel

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			(SS), 0.010 Slotted Screen; CS40 Riser
TPMPs	21-81	8	1.5-inch CS40 Pipe with 1-inch SS, 0.010 Slotted Screen, CS40 Riser
MPEs	22-83	7	4-inch CS40 Pipe with 4-inch SS, 0.010 Slotted Screen; CS40 Riser
HVEWs	2	10	2-inch CS40 Pipe with 2-inch SS, 0.010 Slotted Screen; CS40 Riser
HSVEs	2	6	2-inch PVC Pipe with 2-inch PVC, 0.010 Slotted Screen; PVC S40 Riser

4.2 Vapor Treatment Process Equipment

The wellfield vapor collection piping consisted of a main header line with branches extending throughout the wellfield which was constructed of fiberglass and carbon steel piping. The MPEs and VEWs were connected to the branch lines by temperature rated hose and couplings. The vapor conveyance piping between the wellfield and the vapor treatment equipment operated under vacuum to prevent leakage of vapors to the atmosphere in the event of a manifold breach.

Vapor from the wellfield was collected in the manifold and drawn through a condensate knockout tank, heat exchangers, and a moisture separator to remove condensate from the vapor stream and increase the efficiency of the downstream vapor treatment system. The condensate collected was pumped to the liquid treatment system prior to discharge.

Exiting the final moisture separator and blowers, the vapor flowed through three 3,000-lb vapor-phase granular activated carbon (VGAC) vessels plumbed in parallel, and a polishing vessel containing 2,600 lbs of potassium permanganate ($KMnO_4$) treat any remaining COCs from the vapor stream. These vessels were equipped with sample ports to monitor adsorption efficiency during operation. Piping between the vessels included flanged hose assemblies to facilitate switching lead/lag positions and accommodate media change-outs. Treated vapor was monitored and discharged to the atmosphere.

4.3 Liquid Treatment Process Equipment

Wellfield liquids and condensate generated in the vapor treatment system were combined and treated by phase-separation, filtration, cooling, and liquid-phase granular activated carbon (LGAC) adsorption. Combined liquid and condensate were pumped from the moisture separator through a set of bag filters to remove any particulate prior to cooling

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through a plate and frame heat exchanger. Cooled liquids were processed through an oil water separator, followed by another set of bag filters and a set of two 1,000-lb LGAC vessels, plumbed in series, prior to being pumped, initially, to a 21,000-gallon frac tank for characterization. Following initial characterization and approval by the Jacksonville Municipal Wastewater Treatment Facility liquid was continuously discharged to the City of Jacksonville sewer.

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5 ISTT SYSTEM OPERATIONS

5.1 Operations Overview

Power input to the heaters was initiated on December 1, 2023, with a ramp up in power input over the following week to allow for the heaters to stabilize and the heater liners to dry out. Power input to the heaters was continually adjusted during the first couple of weeks of operations before stabilizing below the designed power input on December 22, 2023. Periodic adjustments to the power input were made for maintenance and repair activities thereafter. The ISTT system was attended by two operators during weekdays, depending on scheduling, and monitored remotely by project team personnel (as needed).

On December 26, 2023, the shallow SVE system was brought online to capture low levels of PCE in the top two feet of soil north of the ISTR system. By the end of operations, an estimated 55 pounds of mass was removed through the shallow SVE system.

On January 16, 2024, the steam injection system was brought online and began heating the bottom of the treatment zone. On average, steam was injected at a rate of 1,700 gallons per day or 600 lbs per hour, for a total of 205,219 gallons of steam injected over the course of operations. The average steam injection rates were in line with design estimates. The boiler used a total of 15,463,000 cf of natural gas by the end of operations.

On February 9, 2024, two 20-ft HVEWs were installed 6 inches below grade in the area between HA-01 and TMP-02 off the southeastern edge of the wellfield adjacent to the driveway between the Site and the Majors Furniture store due to an observance of steam or water vapor surfacing in that area. The HVEWs were tied into the vapor recovery system and steam was no longer observed in this area.

On February 12, 2024, reports of elevated temperatures of the flooring within portions of the Majors Furniture Store began to occur. To address the rising temperatures of the flooring and associated office spaces, the setpoints of the heaters that ran underneath the building were decreased. The shallowest angled heater (labelled as "E") associated with each of the six clusters was turned off, and a double-diaphragm pump was connected to HVEWs 1 through 5, which also ran underneath the building, to clear the screens of condensate to improve vapor recovery and air flow beneath the building. The indoor air quality of the store was being monitored by EA for VOCs through passive air sampling methods. Throughout the project, a maximum of 19 micrograms per cubic meter ($\mu g/m^3$) of PCE was observed from a collected on February 8, 2024, and representative of a two-to-three-week duration. This result occurred at the same time new carpeting was installed in the Majors store, which, combined with the elevated temperatures, was presumed to be the most likely contributor to the elevated indoor air sample result. Concentrations of VOCs in indoor air results declined after adjustments were made to the heaters and HVEWs.

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From March 19 to March 29, 2024, the boiler and steam injection system were turned off due to elevated wellhead pressures at MPEs 8 and 14 and an increase in condensate observed in the treatment system, i.e., at the S-101 horizontal knockout. It was determined that steam was short-circuiting through the two MPE wells instead of being distributed into the formation. The operating steam injection wells near MPEs 8 and 14 were either turned off or their steam flow was lowered to alleviate the rate of steam short-circuiting while continuing to heat.

The confirmation soil drilling and sampling event occurred from April 2 to April 4, 2024. The steam and TCH heating systems were turned off prior to and during the event as a safety precaution. Six soil borings were drilled and sampled throughout the wellfield. Two of the six borings (SB-04 and SB-06) were converted into SIWs to increase heating at the bottom of treatment zones 5 and 6.

On April 17, 2024, water/condensate that is believed to have originated from injected steam short circuiting under the cover was observed pooling along the western property fence line. Adjustments were made to the steam injection system prevent short circuiting. The pooled water was recovered and processed through the liquid treatment system. A soil sample was collected from the topsoil where pooling was observed, the results of which were non-detect except for a low concentration of PCE (8.7 µg/m^3). EA indicated that no further action was required to address soil impacts from the pooled water.

On April 23, 2024, the heaters and steam were turned off following receipt of confirmatory soil sample results indicating remedial objectives of the ISTT system had been achieved. Liquid and vapor recovery continued until May 21, 2024 to ensure steam was removed from the TTZ and to facilitate cooling beneath the building.

During ISTT operations, the following parameters were monitored to track the progress of heating and to ensure that the system was operating properly:

- Soil temperatures in the TTZ were monitored with thermocouples placed in 8 TPMPs. All TPMP locations monitored the temperatures at multiple depths to track the movement of the heat front through the whole depth of the TTZ.
- The vapor flow rate was measured at the stack, and contaminant concentrations (measured as total volatile organic compounds by a photoionization detector [PID]) were monitored from five points installed on the vapor manifold (inlet to the VGACs, VGAC midfluent 1, VGAC midfluent 2, inlet to the KMnO4, and the stack).
- In total, 24,000 lbs of VGAC media and 2,600 lbs of $KMnO_4$ media were used throughout operations. The combined vapor treatment system's destructive removal efficiency throughout the project is presented in **Appendix C**.

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- The liquid stream was initially sampled for approval to continuously discharge to the sewer. Following the initial sample, the liquid stream was periodically monitored for PCE. In total, 3,000 lbs of LGAC were used during operations.
- Liquid and condensate extraction rates were compared to steam injection rates to ensure a net extraction from the wellfield to support hydraulic control.

5.2 Temperature Progress

The overall, average TTZ temperature was measured and tracked using temperature data from the eight TMPs located within the wellfield. The TPMPs were positioned at the centroid locations between the heaters, which is the location that is slowest to heat up (i.e., temperatures at the centroid locations lag all other portions of the TTZ); therefore, the average temperature based on the TMPs is not the true average temperature of the TTZ, but the average temperature of coolest portions of the TTZ.

A total of 123 sensors continuously monitored the subsurface temperatures at the eight TPMPs. The overall average temperature in the TTZ reached a maximum of 108.6°C (+/- 1°C based on the accuracy of the fiberoptic temperature strings) on April 16, 2024.

Figure 5.1 illustrates the average temperature, while Figure 5.2 shows the average temperature by depth as measured through the end of operations.

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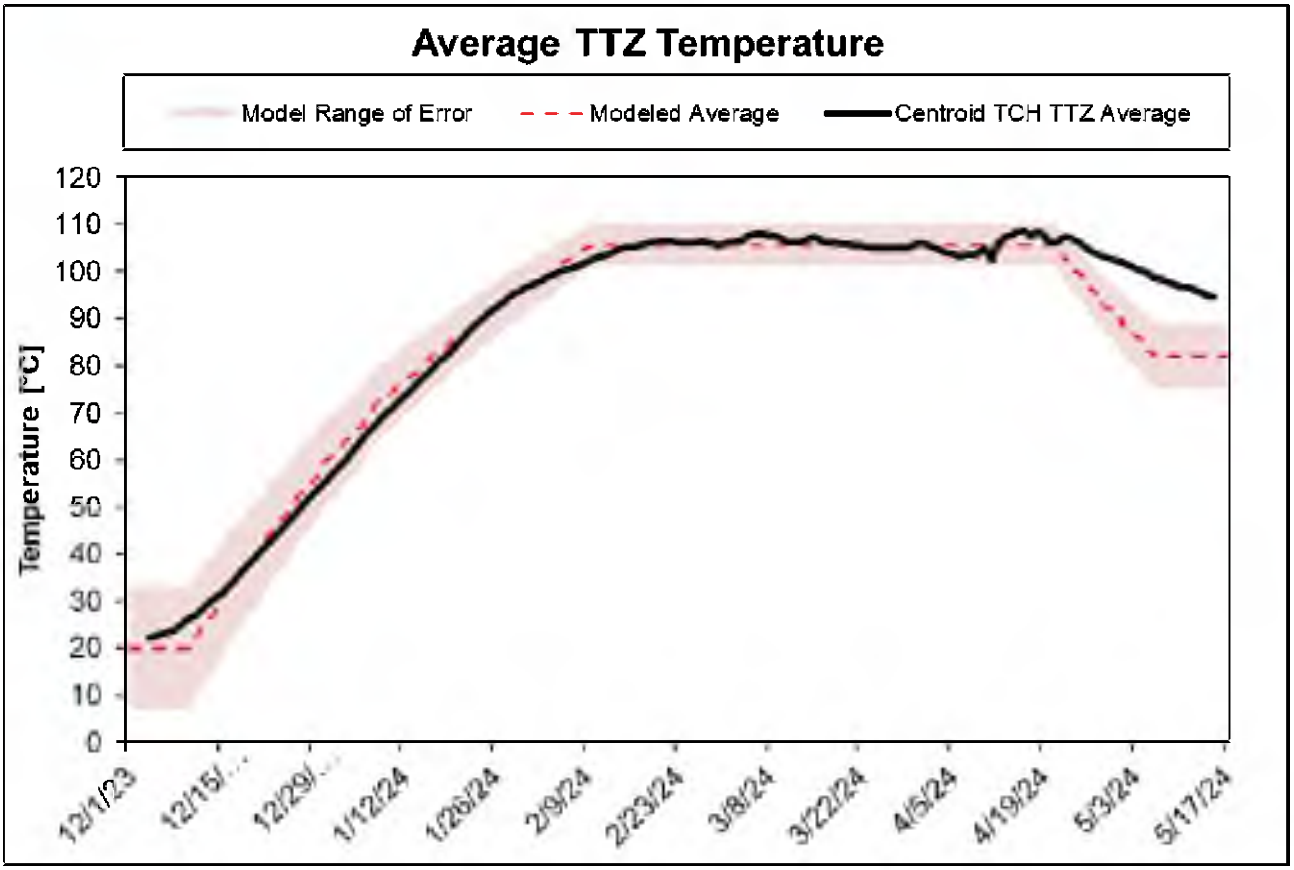

Figure 5.1. Average TTZ Temperature

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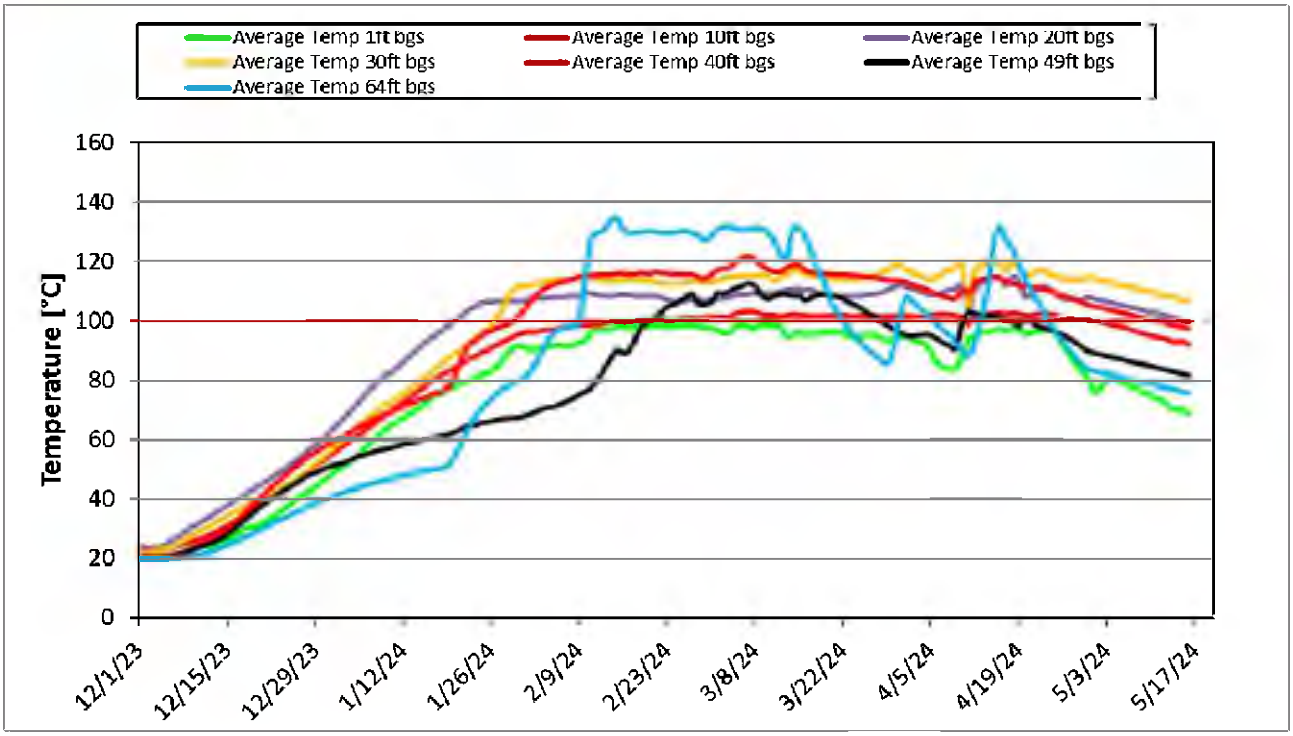

Figure 5.2. Average TTZ Centroid Temperatures by Depth

5.3 Vapor Extraction

A total of 67.9 million standard cubic feet (scf) of non-condensable vapor and an estimated 39.8 million scf of steam were extracted over the total duration of the project. The cumulative vapor extracted is shown in Figure 5.3. The vapor extraction rate measured at the condensate knockout effluent is depicted in Figure 5.4. The average wellfield non-condensable vapor extraction rate from the start of operations through May 21, 2024, was 286 scf per minute (scfm) while the average steam extraction rate was 164 scfm.

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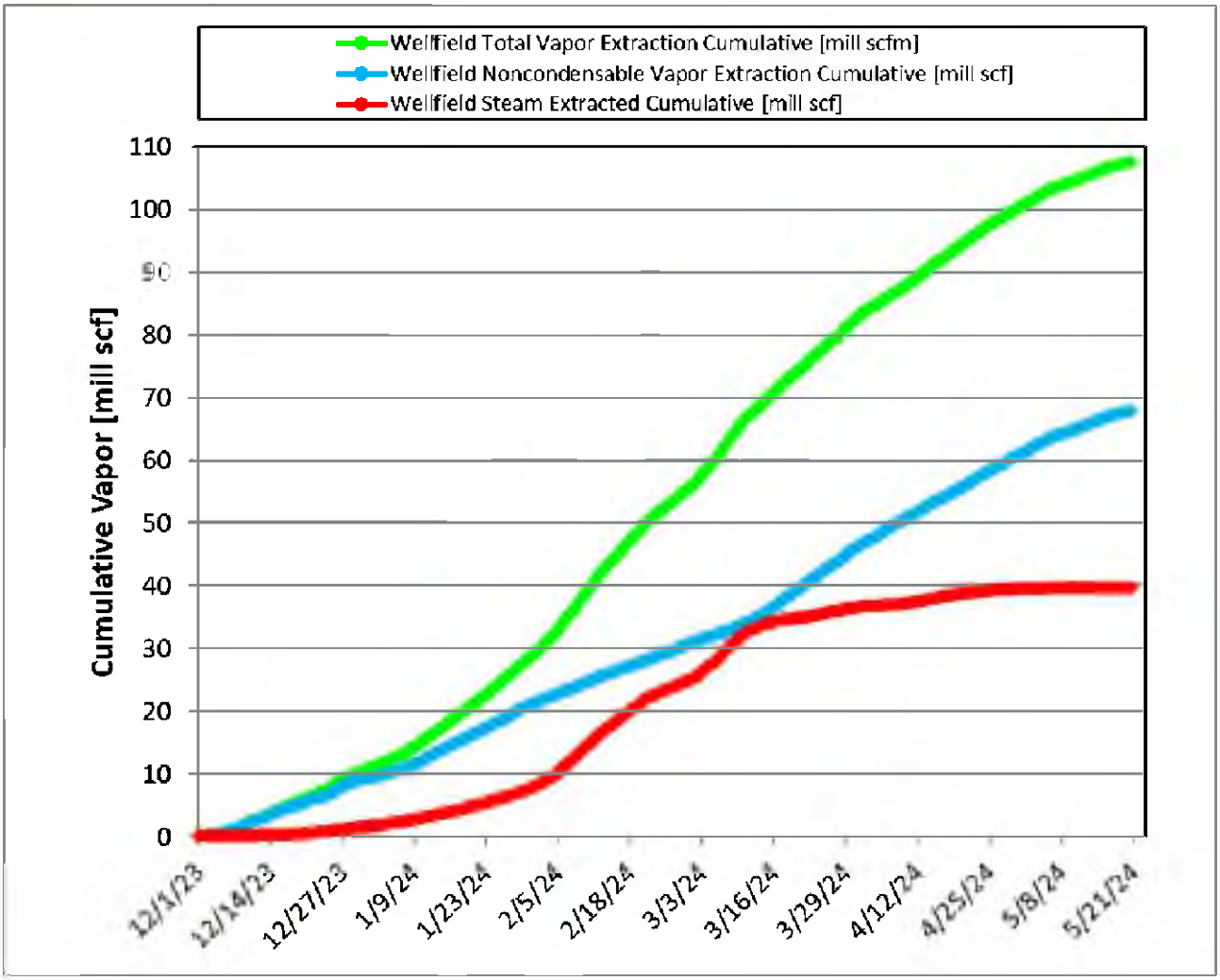

Figure 5.3. Cumulative Vapor Extraction

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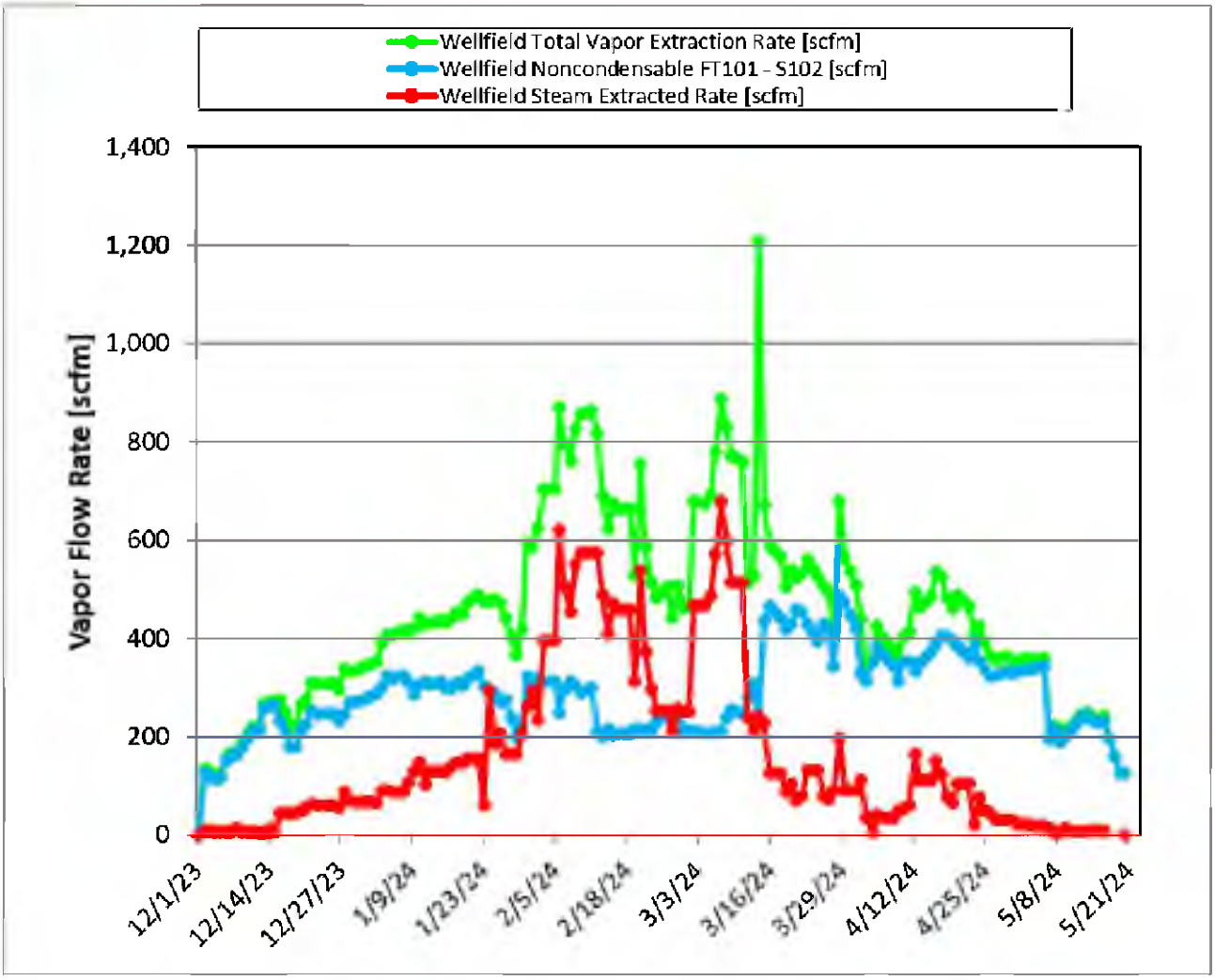

Figure 5.4. Vapor Extraction Rates

Operational adjustments to the vapor extraction rates were implemented periodically throughout operations to optimize overall system performance (i.e., optimize mass removal and ensure pneumatic control while minimizing energy removed from the TTZ) and are depicted in the fluctuations in the vapor extraction rates observed on Figure 5.4.

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5.4 Liquid Extraction and Injection

The cumulative liquid extracted and injected (as steam), and corresponding rates are shown below on Figures 5.5 and 5.6, respectively. A total of 1,747,480 gallons of water were discharged to the sewer system. Approximately 1,524,255 gallons were pumped from the wellfield. A portion of this volume or approximately 223,255 gallons were estimated to have been extracted as condensate from the wellfield during operations. A total of 205,219 gallons of steam were injected into the subsurface during operations. A net negative extraction was maintained throughout operations. Wellfield liquid extraction rates averaged 7 gallons per minute (gpm) from the start of operations through May 21, 2024, and steam injection rates averaged 1.2 gpm while online.

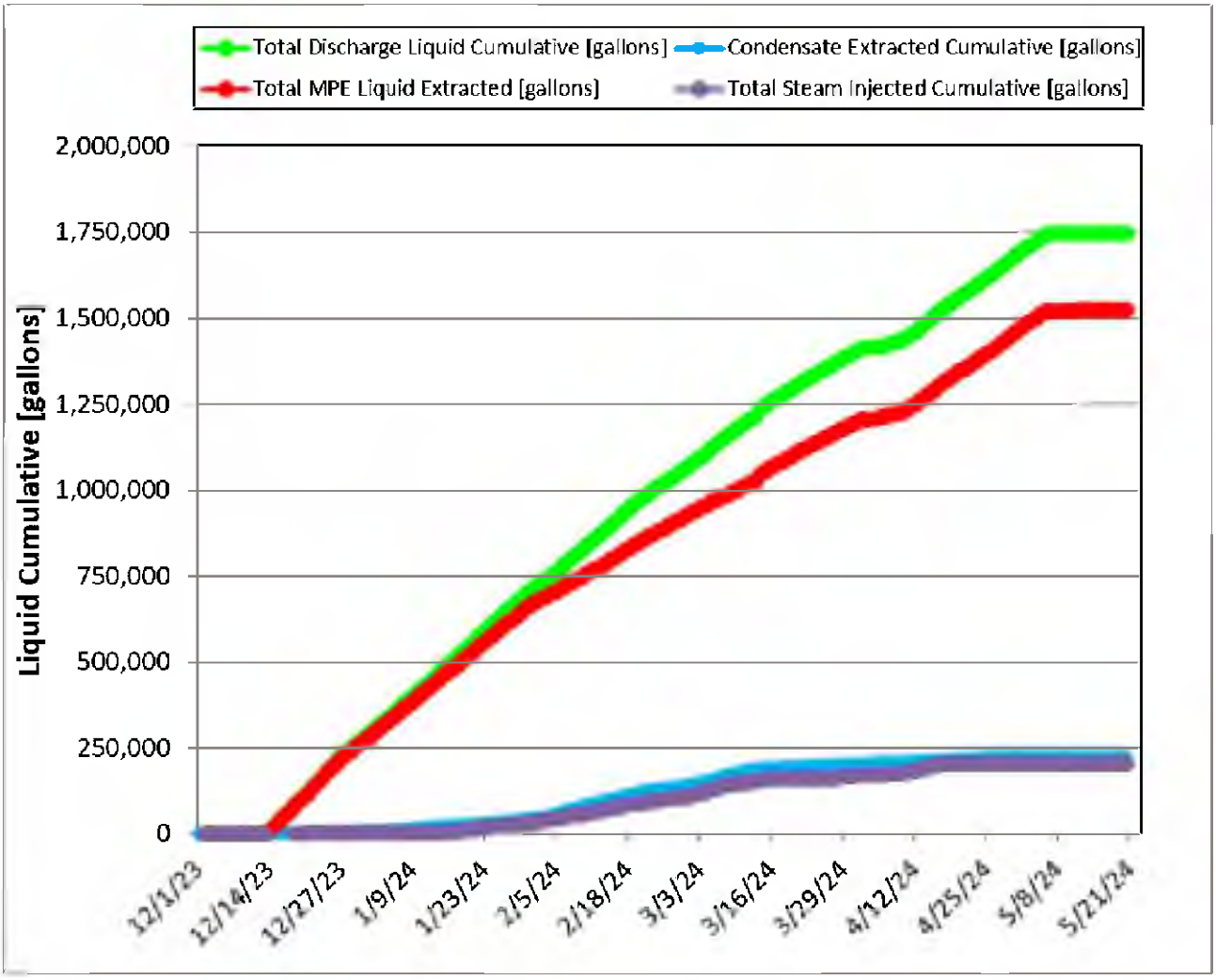

Figure 5.5. Cumulative Liquid Extraction and Injection Balance

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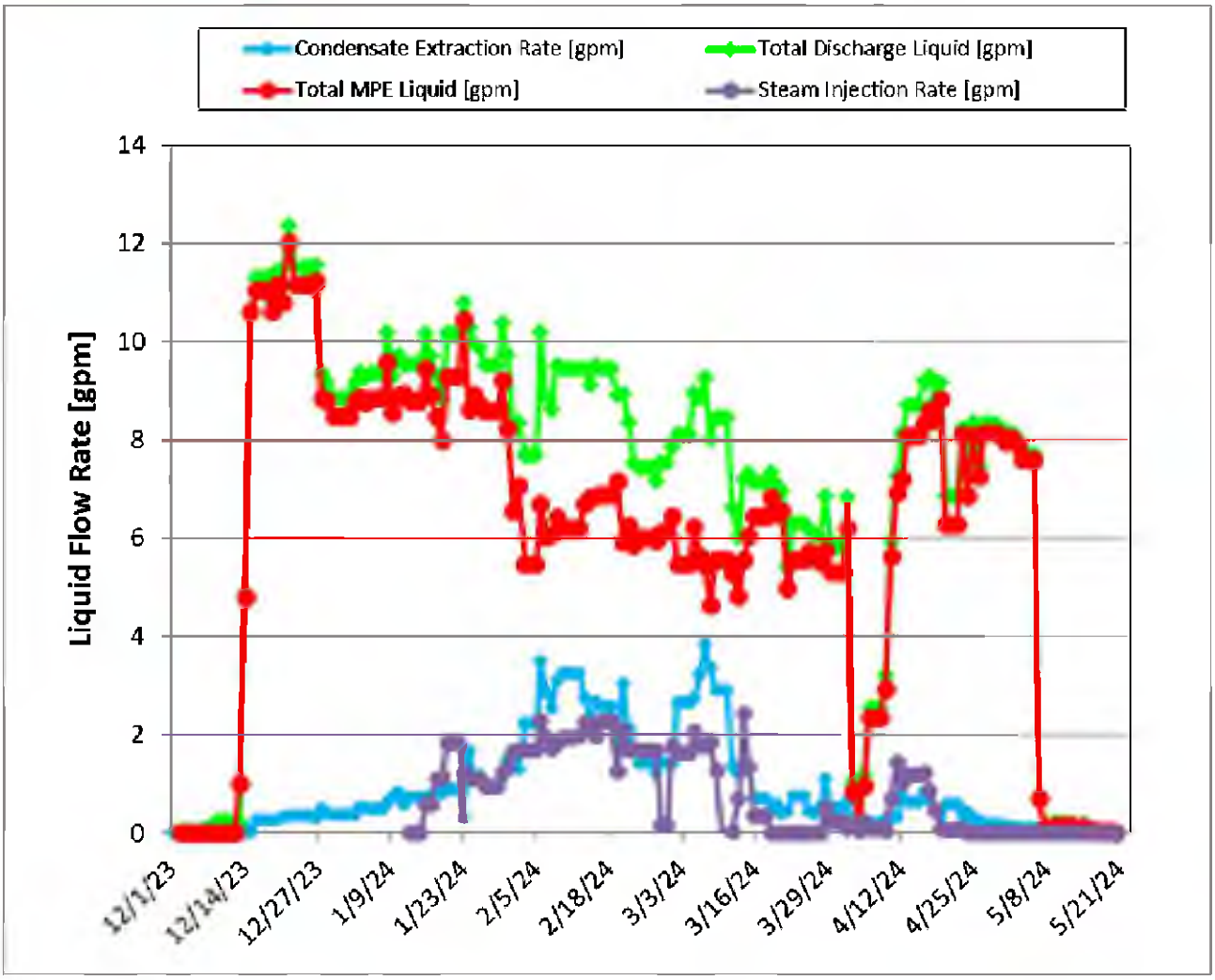

Figure 5.6. Liquid Extraction and Steam Injection Rate

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5.5 Mass Removal

Estimated mass removed is reported using the influent vapor stream to the VGACs and the liquid influent stream to the LGAC treatment vessels. Vapor mass is estimated by using daily PID readings periodically corrected by EPA Method TO-15 analytical data while mass removed in the liquid stream is calculated using the concentration of dissolved organics detected by laboratory method SW8260. These concentrations were applied to the flow of their respective vapor and liquid streams to estimate mass removal. Laboratory analytical results for VOCs and primary COCs collected from the process treatment system during operations are summarized in **Appendix D**.

5.5.1 Mass Removed as Vapor

Grab samples for PID screening were collected at the VGAC influent, the two VGAC midfluents, the influent to the KMnO4 vessel, and the stack. The PID screenings, using a MiniRAE 3000 PID, were generally collected five days a week when the system operators were onsite. Analytical samples were also collected at the same sample locations every two weeks during the start of operations and increased to once a week in the final two months of operations.

Laboratory analytical results were compared against PID readings also collected at the influent to VGACs. By comparing these values, a PID correction factor (or ratio) was developed for each vapor sampling event to adjust field PID readings to match the analytical data more accurately. These correction factors were applied beginning on the date of sample collection up to the day prior to the following sampling event. The PID readings collected from the VGAC Influent, VGAC Midfluents, KMnO4 Influent, and stack in units of parts per million by volume (ppmV) are summarized on Figures 5.7 and 5.8.

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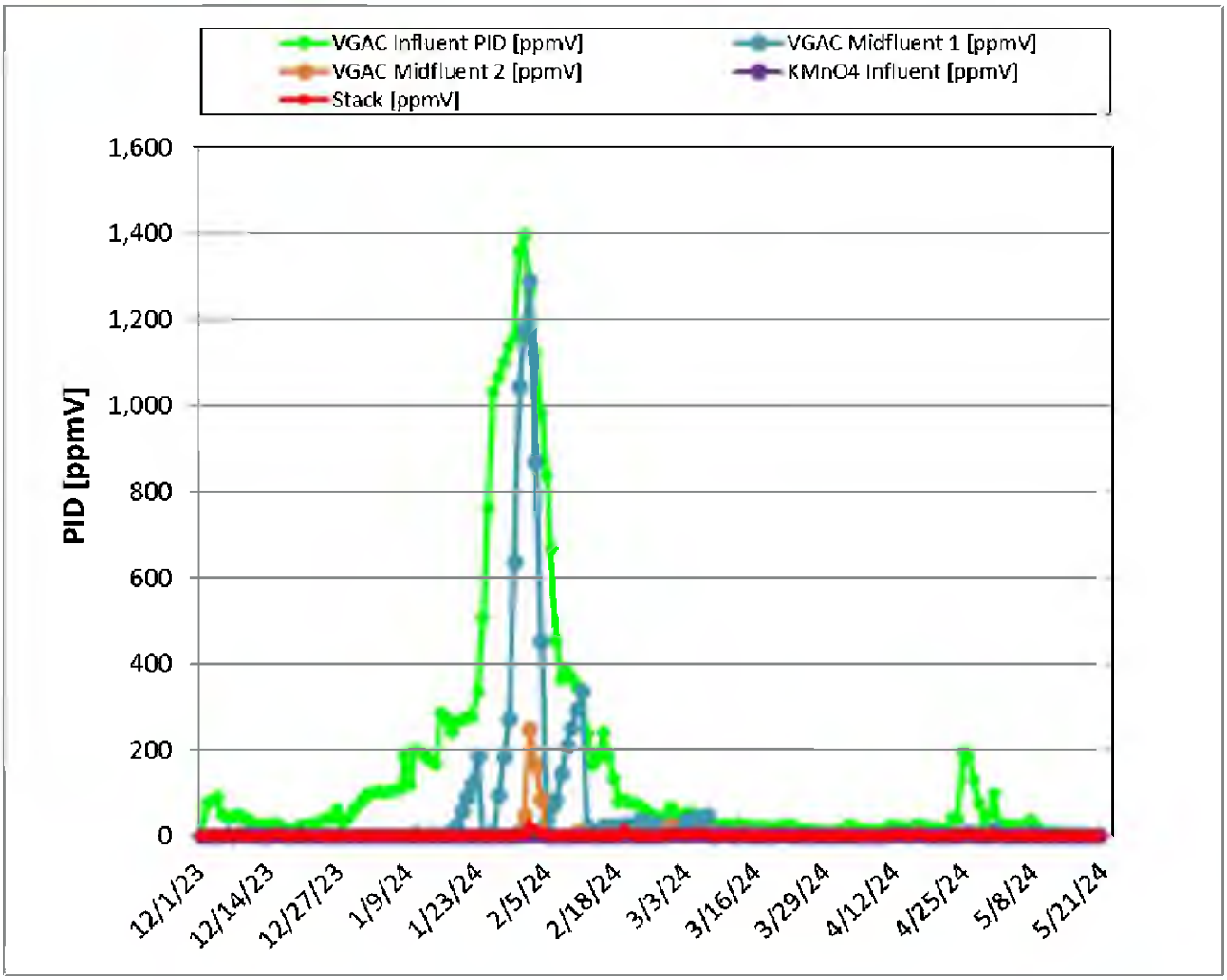

Figure 5.7. PID Readings

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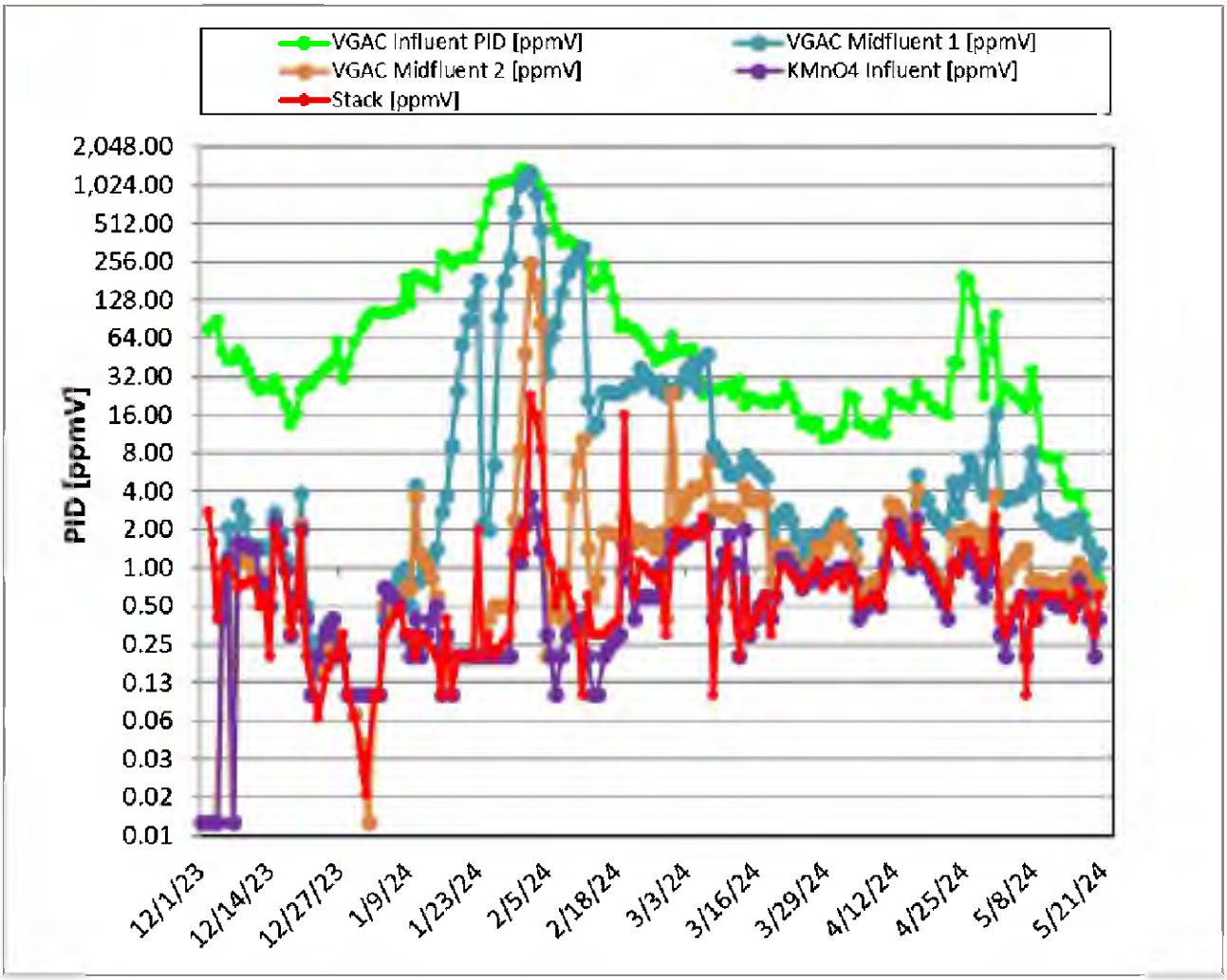

Figure 5.8. PID Readings in Logarithmic Scale

Mass removed in the vapor phase was calculated using corrected PID readings and the vapor flow rates collected manually at the VGAC influent. An example calculation for the daily vapor mass removal rate is provided below.

Date: 12/26/2023

VGAC Influent PID: 41.6 ppmV

Laboratory analytical result: 179.195 mg/m^3

PID Correction Factor: $\frac{179.195\frac{\text{mg}}{\text{m3}}}{41.6\ ppmV} = 4.31\ \frac{mg/m^3}{ppmV}$

Vapor Carbon Inlet Flow Rate: 374,400 scf per day (scf/day)

Constants: 0.0283 cubic meters per scf (m^3/scf)

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1,000,000 mg/kg

0.454 kilograms per pound (kg/lb)

$$\frac{\left(\left(\frac{374{,}400\,\frac{scf}{day} * 0.0283\,\frac{m^3}{scf} * 41.6ppmV * 4.31\,\frac{mg/m^3}{ppmV}}{1{,}000{,}000\,\frac{mg}{kg}}\right)\right)}{0.454\,\frac{kg}{lb}} = \mathbf{4.18\ lbs/day}$$

The estimated mass removed in the vapor phase for the duration of ISTT operations was 2,319 lbs based on the corrected PID concentrations, with a maximum daily mass removal rate of 165 lbs per day (lbs/day) observed on January 29, 2024.

5.5.2 Mass Removed as Liquid

Mass removed in the liquid phase was calculated using the analytical data from a sample collected at the influent to the LGAC treatment train. Analytical concentrations were applied from the date the sample was collected up to the date of a subsequent sample. An example calculation for the daily liquid mass removal rate is provided below.

Date: 12/26/2023

Liquid Analytical COCs: 2570 micrograms per liter (µg/L)

Daily Liquid Flow Rate: 16,575 gallons/day

Constants:

1,000,000 micrograms per gram (µg/g)
3.78 liters (L)/gallon
1,000 grams per kilogram (g/kg)
0.454 kg/lb

$$\frac{\left(\left(\frac{2570\,\frac{\mu g}{L}}{1{,}000{,}000\,\frac{\mu g}{g}} * 3.78\,\frac{L}{gallon} * 16{,}575\,\frac{gallons}{day}\right)\right)}{1{,}000\,\frac{g}{kg}}}{0.454\,\frac{kg}{lb}} = \mathbf{0.355\ lbs/day}$$

The estimated mass removed in the liquid phase for the duration of ISTT operations was 117 lbs, with a maximum daily mass removal rate of 7.4 lbs/day observed on February 9, 2024.

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5.5.3 Total Mass Removed

Total mass removed from the ISTT and HSVE system based on PID concentrations and liquid analytical data collected throughout operations was 2,437 lbs.

Figures 5.9 and 5.10 summarize the cumulative estimated mass removed and the cumulative estimated mass removal rates respectively.

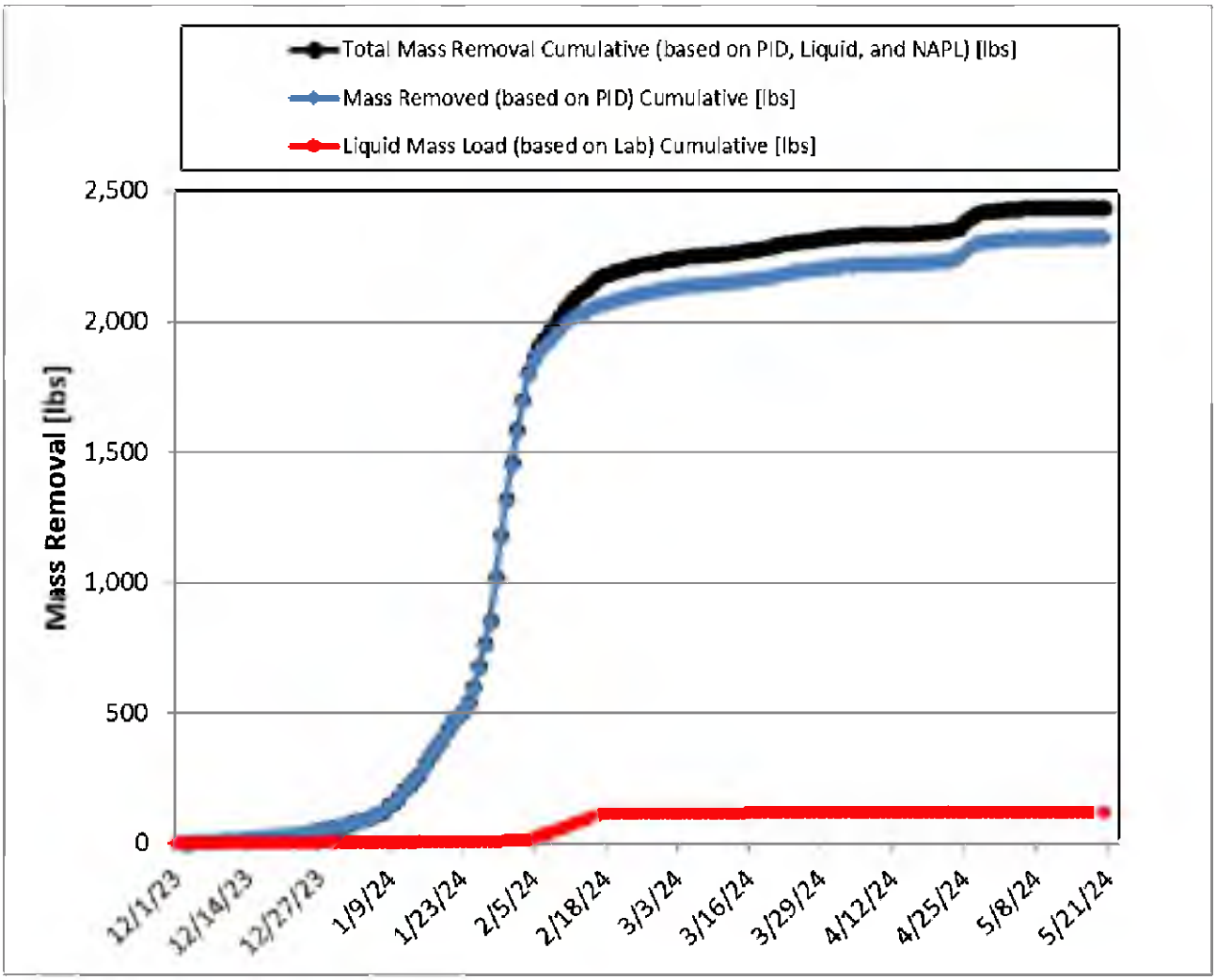

Figure 5.9. Cumulative Mass Removed

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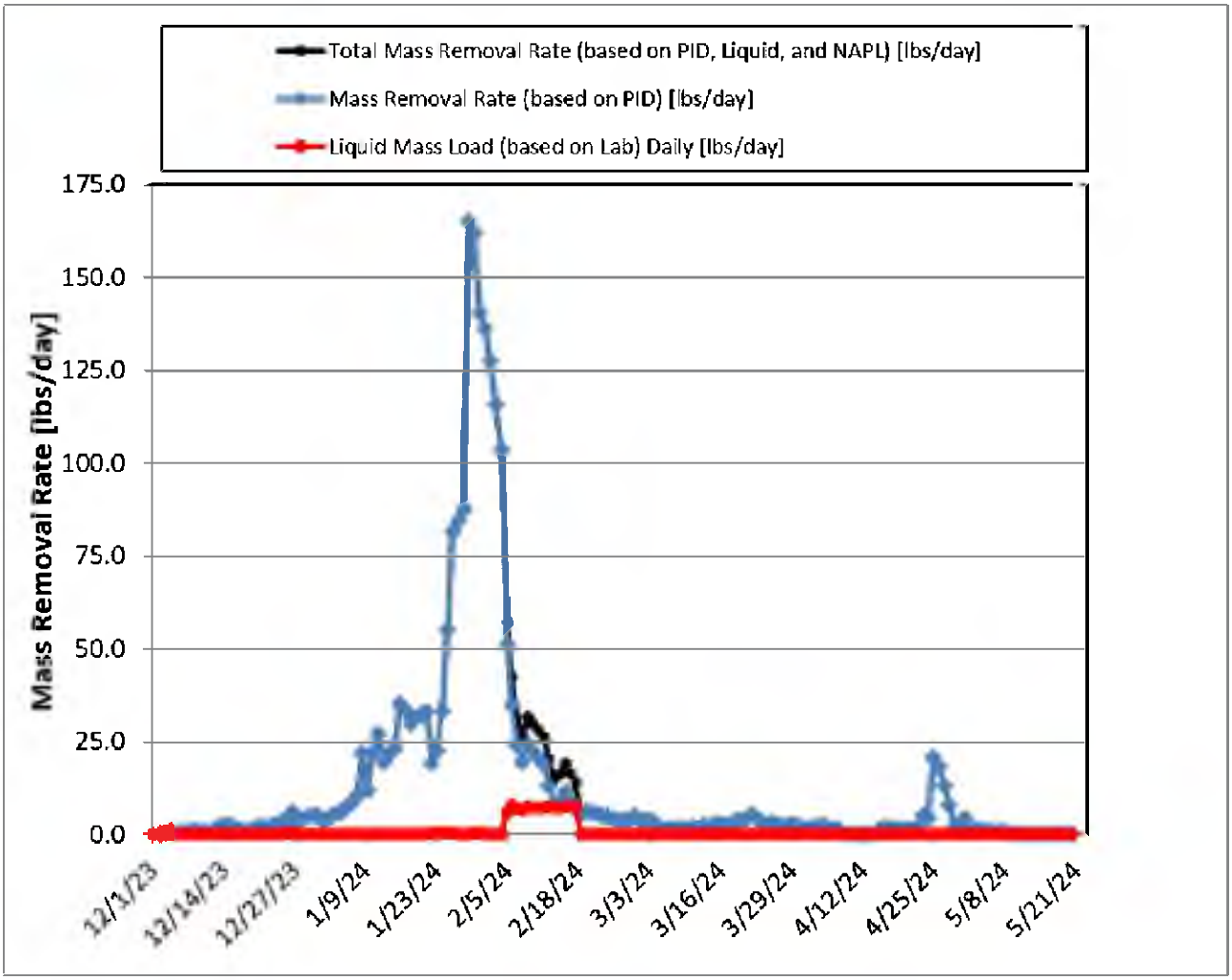

Figure 5.10. Mass Removal Rate

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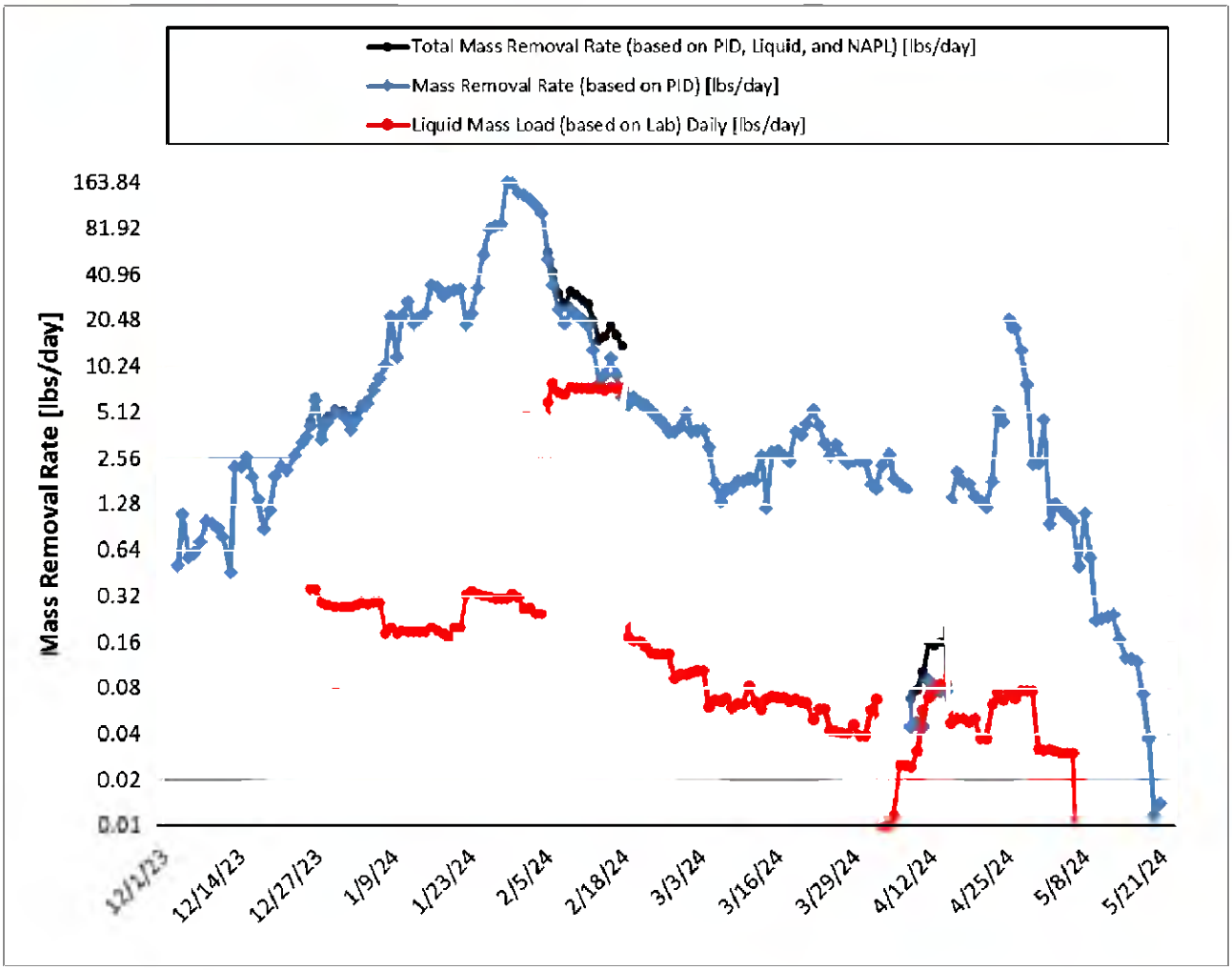

Figure 5.11. Mass Removal Rate in Logarithmic Scale

5.5.4 Shallow SVE System

The horizontal shallow SVE system was installed in the northwestern section of the treatment site to target low levels of PCE in the soil from 0 to 2 ft bgs. Once online, PID readings and flow measurements were collected at the manifold representing the combined SVE system. Analytical vapor samples were collected on the same schedule as the VGACs and stack samples and an estimated 55 lbs of mass was removed by this system.

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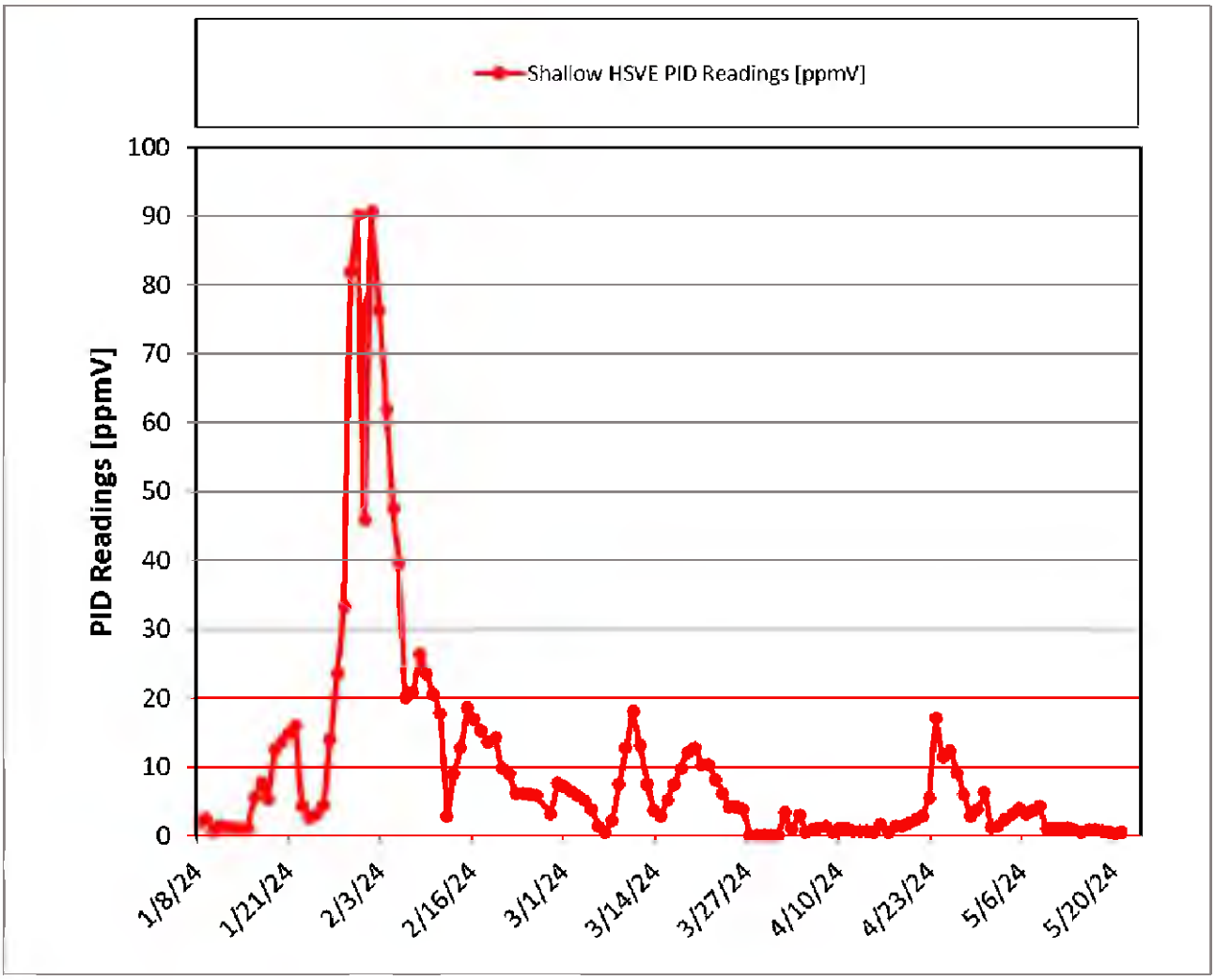

Figure 5.12. Shallow HSVE Combined Influent PID Readings

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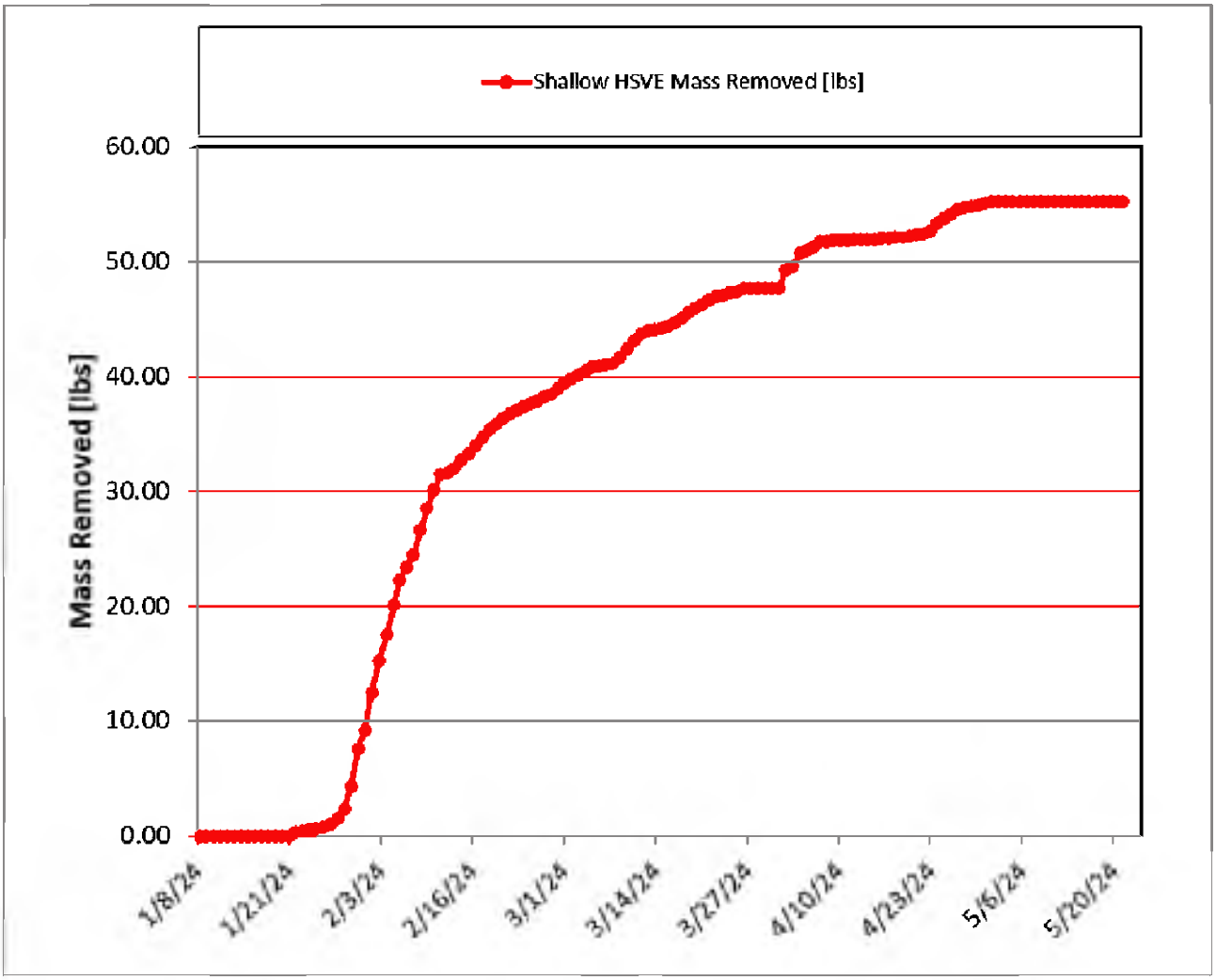

Figure 5.13. Shallow HSVE Combined Mass Removed

5.6 Utilities

A total of 2,343,146-kilowatt hour (kWh) of energy was added to the subsurface by the TCH system, which was lower than the 2,921,000 kWh of energy predicted by the subsurface model. The process treatment system required 239,854 kWh to operate, returning an overall total of 2,583,000 kWh used by the ISTT system. Total energy usage is summarized on Figure 5.13.

A total of 1,233,720 lbs of steam was added to the subsurface, which was higher than the estimated 1,008,000 lbs predicted by the subsurface model. The boiler used 15,463,000 cf of natural gas to produce steam to support injections into the TTZ. The steam and gas usage are summarized on Figures 5.16 and 5.17.

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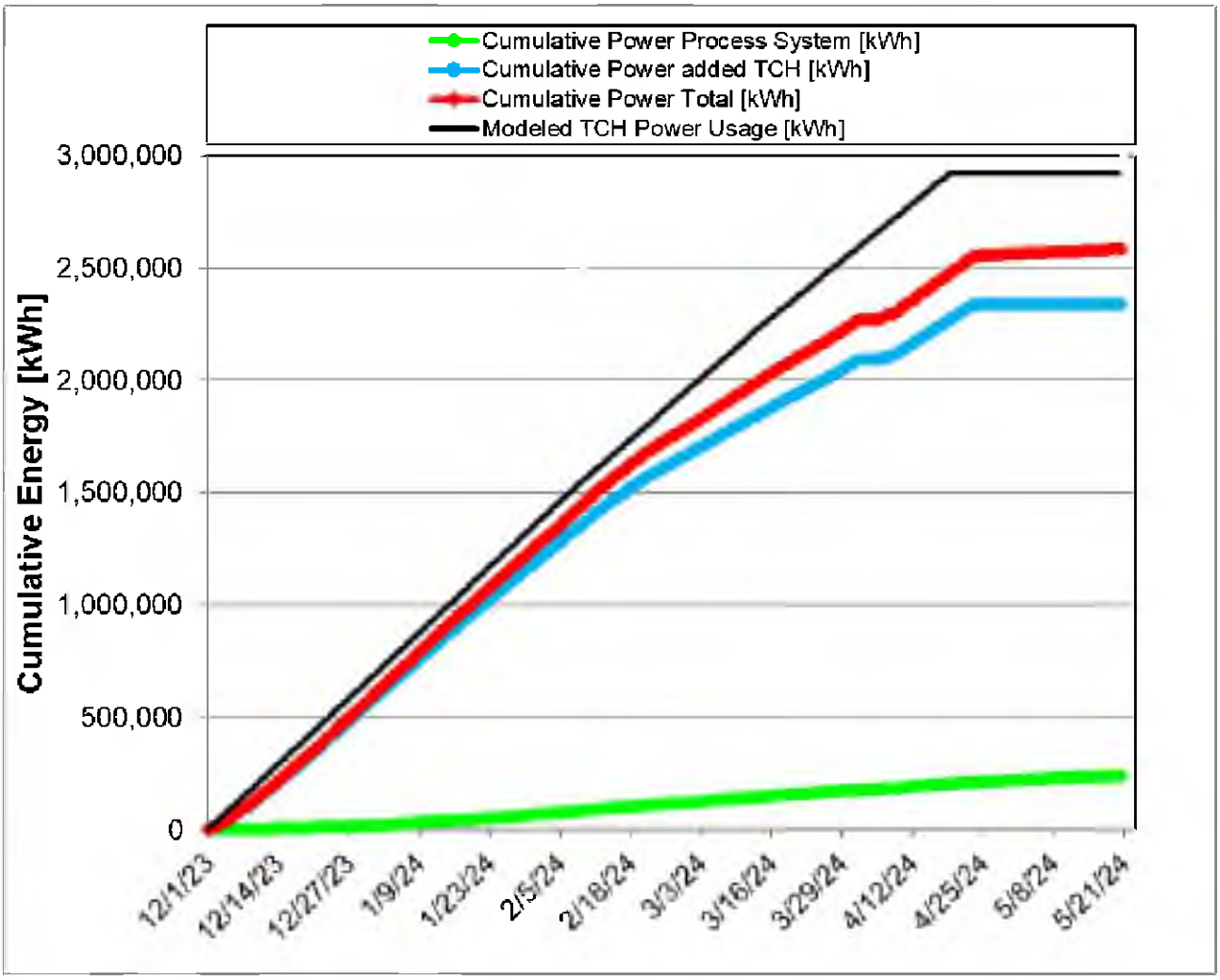

Figure 5.14. Cumulative Energy

The energy and power for the TCH system, process treatment system, and the totals for both are depicted on Figure 5.13 and Figure 5.14, respectively. On average, 626 kilowatts (kW) of power was added to the subsurface by the TCH system while the heating system operated, while 58 kW of energy was used by the treatment system.

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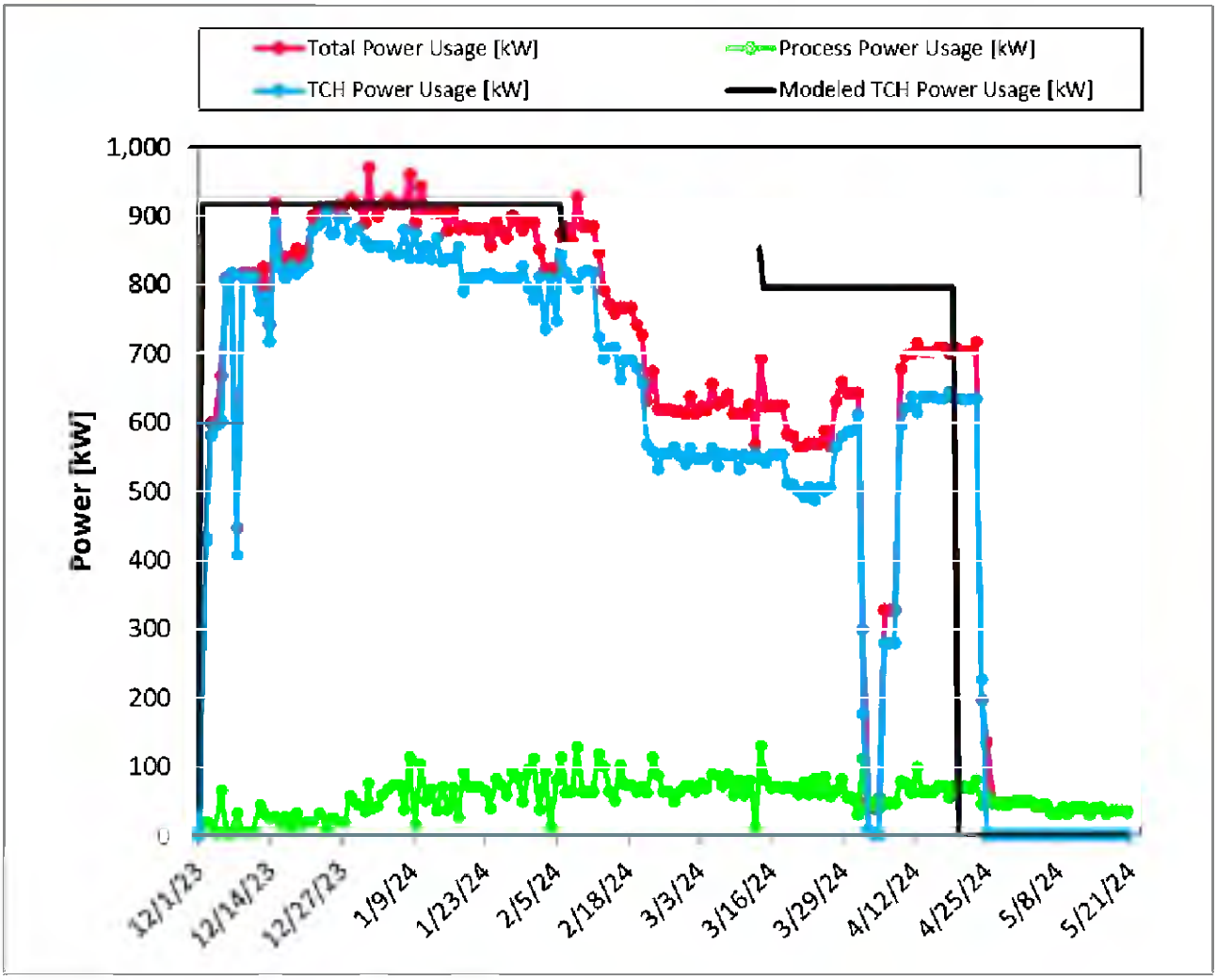

Figure 5.15. TCH Power Usage Rate

Adjustments were made to the power input of the heaters throughout operations which affected both the TCH power usage and total power usage rates. After the initial period of heating at the original design power input, adjustments to heater inputs were made as follows:

- Starting February 12, 2024, the heater cluster underneath the Majors Furniture Store were dialed back due to elevated floor temperatures inside the store, and the shallowest heaters ("E") were taken offline;
- From April 2 to 4, 2024, select silicone control rectifiers were turned off as a safety precaution for drilling and sampling activities.

By the end of operations on May 21, 2024, 73% of the original estimate for designed total energy usage was consumed during the ISTT remedy.

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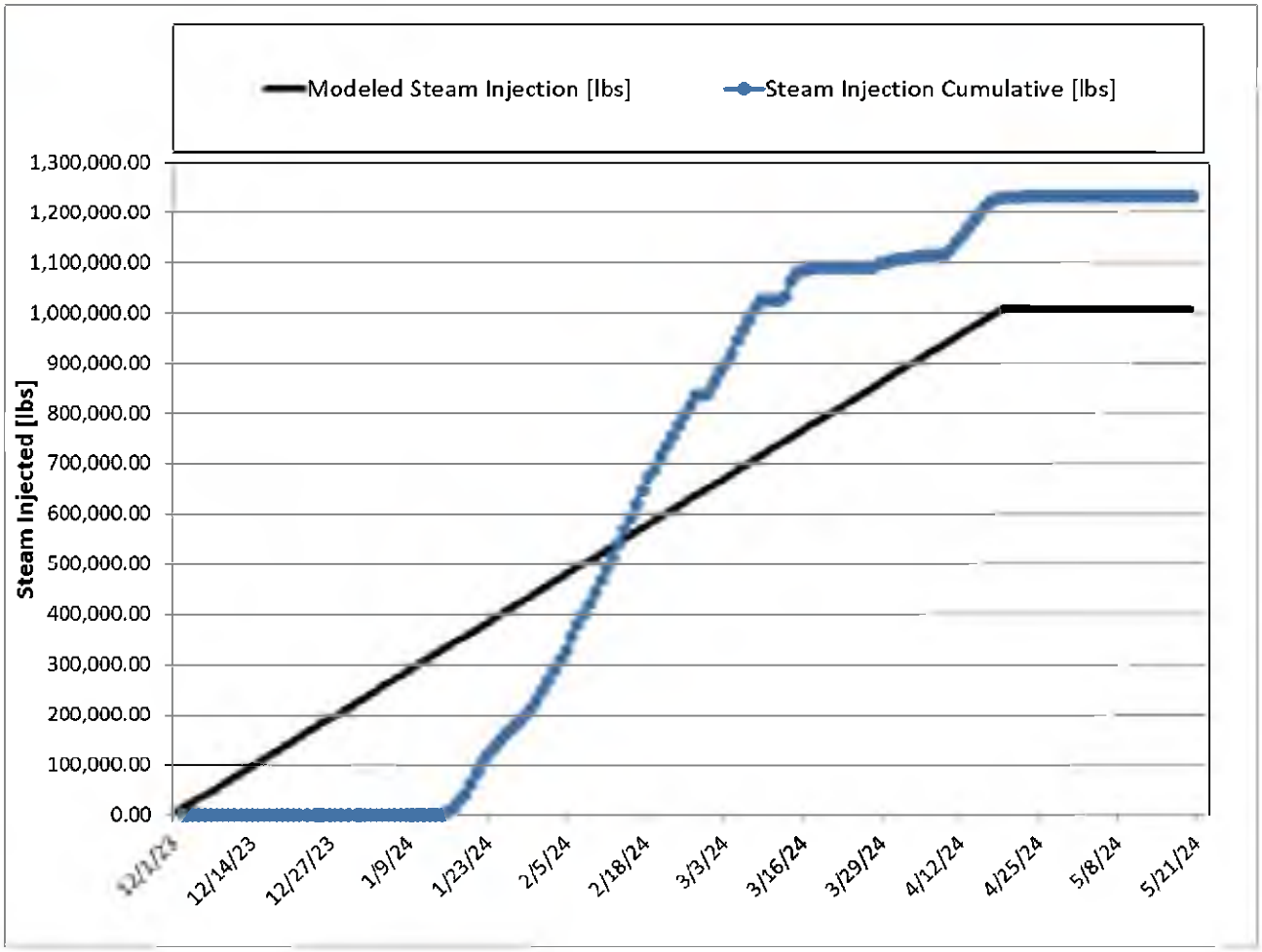

Figure 5.16. Cumulative Steam Injected

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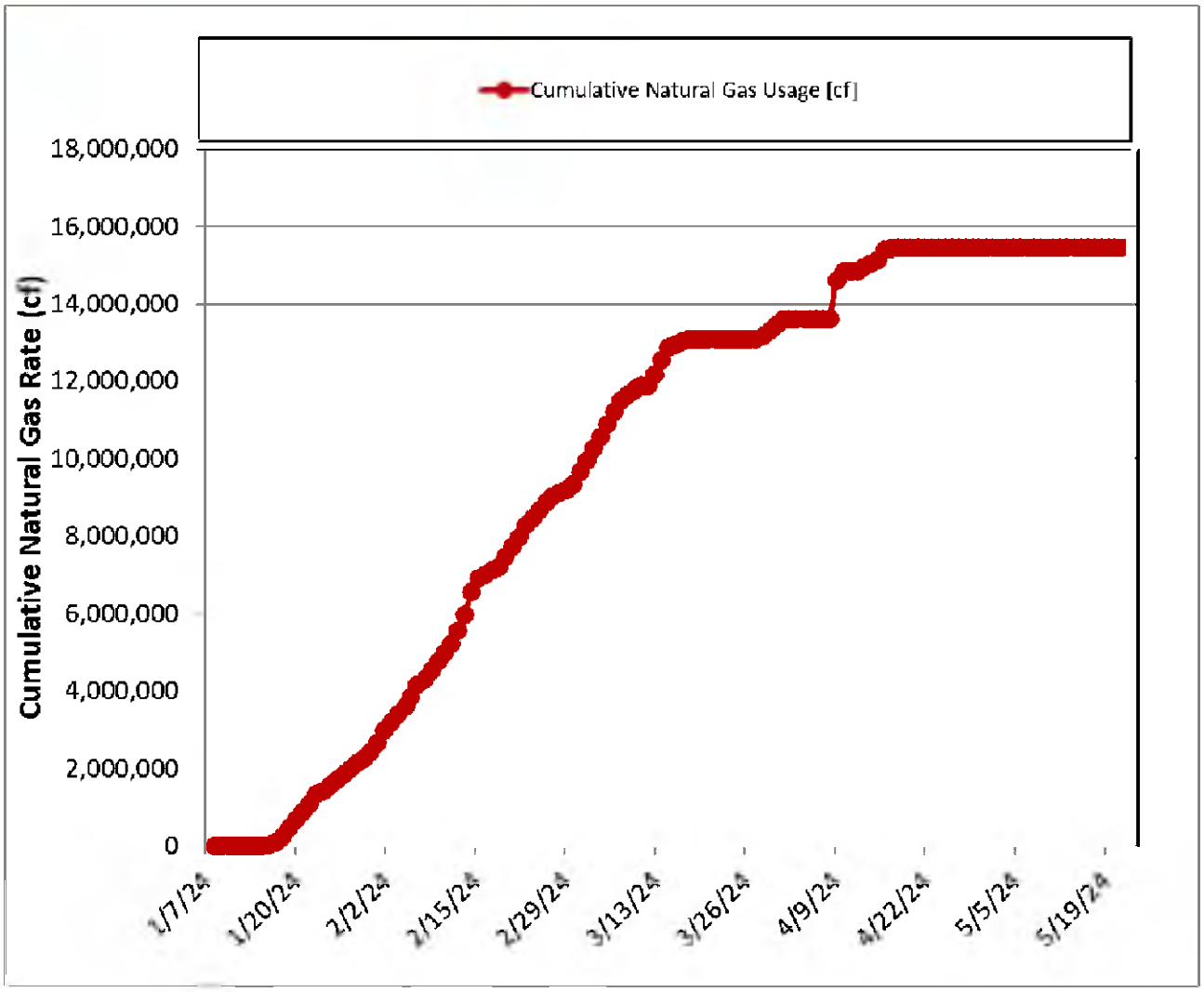

Figure 5.17. Cumulative Natural Gas Usage

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6 SHUTDOWN EVALUATION AND SOIL SAMPLING

The decision to conduct a confirmatory soil sampling event during operations was made by the project team to evaluate ISTT performance and progress towards overall soil remedial objectives based on a review of project data and multiple lines of evidence suggesting treatment to the remedial goals was (or nearly) complete. This included demonstrating achievement and maintenance of target temperatures throughout the TTZ, achievement of design energy injection, and demonstration of diminishing returns in mass removal. Additional field checks included collection of PID readings from wellfield VEWs and MPEs and a series of steam cycling events to assess for changes in mass removal rates.

The confirmation soil sampling event was conducted from April 2 to 4, 2024 and included the advance of six soil boring locations distributed throughout the TTZ and in accessible locations for the drill rig. Drilling was performed by Cascade Drilling using sonic drilling methodologies, and EA managed the collection and laboratory analyses of soil samples

Soil samples were collected every five vertical feet along each boring that spanned the treated interval of its respective zone. Of the 39 samples analyzed, three samples detected PCE above its respective remedial goal (0.0063 milligrams per kilogram [mg/kg]). No other COCs were detected above their respective remedial goals. A table summarizing confirmatory soil sampling results is included in **Appendix E**.

PCE was detected above the remedial goal in borings SB-6 (0.033 mg/kg at 5 ft bgs), and boring SB-04 (0.027 mg/kg at 5 ft bgs and 0.28 mg/kg at 40 ft bgs). PCE was non-detect in all other soil samples. Steam injection wells were installed in borings SB-04 and SB-06 after soil sampling and were brought online to provide additional energy to the lower surficial aquifer through the end of operations.

Based on a review of the soil analytical results paired with the other lines of evidence, the project team (including TerraTherm, EA, EPA, and NCDEQ) determined that the ISTT remedy had met project objectives. EA directed TerraTherm to de-energize all heaters and initiate shutdown of ISTT operations on April 23, 2024. Vapor extraction continued for an additional 28 days until system shutdown on May 21, 2024.

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7 DEMOBILIZATION

Demobilization activities began after heater circuits were de-energized and the vacuum extraction system was shut down on May 21, 2024. Wellfield electrical components were disassembled, and all heater elements were allowed to cool in the wells prior to removal. All piping, wiring, and associated equipment was removed from the wellfield and either decontaminated for return to TerraTherm's shop or segregated for disposal. ISTT wells were cut below ground surface and grouted in place. Cover removal and site restoration was performed by EA. TerraTherm demobilized from the site on July 22, 2024.

7.1 Decontamination

Decontamination of conveyance piping, wellhead connections, and process equipment consisted of a triple rinse with Simple Green® followed by a triple rinse with a steam pressure washer to remove any visible residue and residual COC contamination. Wash water generated during decommissioning was processed through the ISTT treatment system until it was no longer practicable. The remaining volume of decontamination wash water generated was drummed for disposal by EA.

7.2 Disposal

Spent VGAC characterization results for Toxic Characteristic Leaching Procedure (TCLP) was hazardous for PCE. Spent VGAC media was shipped for regeneration to Calgon Carbon Corporation's Big Sandy Plant in Catlettsburg, Kentucky. Spent LGAC media also analyzed for TCLP and results were non-hazardous. Spent LGAC was shipped to Norit Activated Carbon's Pryor Plant in Pryor, Oklahoma for regeneration. All spent $KmnO_4$ media was vacuumed from its treatment vessels and drummed for removal by EA. All waste (e.g. bag filters, drilling sludge, etc.) was drummed, labeled, and staged for removal by EA.

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Appendix A

Drawings

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

FINAL REPORT

DRAWING INDEX

DRAWING NO. DRAWING TITLE

TITLE SHEET
C100 DRAWING INDEX & LOCATION MAP

CIVIL
C101 EXISTING CONDITIONS PLAN
C102 WELLFIELD LAYOUT (2 SHEETS)
C103 TYPICAL WELL CONSTRUCTION DETAILS (6 SHEETS)

ELECTRICAL
E100 ELECTRICAL LEGEND
E101 ELECTRICAL ONE-LINE (4 SHEETS)

MECHANICAL
M101 MECHANICAL LAYOUT

PROCESS
P101 PROCESS LEGEND (3 SHEETS)
P101 PROCESS FLOW DIAGRAM WITH MASS AND ENERGY BALANCE (3 SHEETS)
P102 PIPING & INSTRUMENTATION DIAGRAM (7 SHEETS)

APPROXIMATE TREATMENT AREAS



AERIAL VIEW - THERMAL REMEDIATION SITE

SITE



STREET MAP - THERMAL REMEDIATION SITE

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a Cascade Company

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

DRAWING INDEX & LOCATION MAP

SCALE: AS SHOWN
DESIGNED: D REVIEW: 0
PROJECT NO.: R23-104
SHEET: 1 OF 1
DRAWING: C100

NOTES:

1. THE BASE MAP WAS DRAWN FROM A PLAN ENTITLED "BOUNDARY & TOPOGRAPHIC SURVEY" DATED DECEMBER 19, 2018, PREPARED BY DONALDSON GARRETT & ASSOCIATES, INC. OF CHARLOTTE, NC AND WAS RECEIVED ELECTRONICALLY ON APRIL 12, 2020 WITH AN ORIGINAL SCALE 1" = 30'

LEGEND

TARGET TREATMENT ZONE

EXTENTS OF SVE SYSTEM

ISTR TARGET TREATMENT ZONE

GRAPHICAL SCALE

0 15 30 60

FINAL REPORT

NO	DATE	BY	CK	DESCRIPTION
0	5/4/2020	PH	KC	FINAL REVISION
A	4/15/2020	PH	KC	90% DESIGN - DRAFT

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IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

EXISTING CONDITIONS PLAN

SCALE: AS SHOWN
DRAWING NO: D
REV: 0
PROJECT NO: R23-104
SHEET: 1 OF 1
DRAWING: C101

ID	Type	Angle [°]	Boring Dia. [in]	Boring Depth [ft bgs]
HA-01	HE	62	7	29.5
HA-02	HE	73	7	27.5
H-01	H	-	6	57
H-02	H	-	6	47
H-03	H	-	6	26
H-04	H	-	6	57
H-05	H	-	6	73
H-06	H	-	6	57
H-07	H	-	6	57
H-08	H	-	6	47
H-09	HE	-	7	47
H-10	H	-	6	36
H-11	H	-	6	36
H-12	H	-	6	26
H-13	H	-	6	26
H-14	HE	-	7	26
H-15	HE	-	7	26
H-16	H	-	6	26
H-17	HE	-	7	26
H-18	H	-	6	36
H-19	HE	-	7	47
H-20	HS	-	7	57
H-21	HS	-	7	57
H-22	HS	-	7	57.5
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H-25	H	-	6	26
H-26	HE	-	7	26
H-27	H	-	6	26
H-28	H	-	6	26
H-29	HE	-	7	47
H-30	HE	-	7	57
H-31	H	-	6	57
H-32	HS	-	7	57
H-33	HE	-	7	57
H-34	HS	-	7	57
H-35	H	-	6	36
H-36	H	-	6	36
H-37	H	-	6	36
H-38	HE	-	7	36
H-39	H	-	6	36
H-40	H	-	6	36
H-41	HE	-	7	36
H-42	H	-	6	47
H-43	H	-	6	36
H-44	HS	-	7	57
H-45	HE	-	7	36
H-46	HS	-	7	57
H-47	H	-	6	26
H-48	HE	-	7	26
H-49	H	-	6	26
H-50	H	-	6	26
H-51	H	-	6	26
SB-04	-	-	7	55
SB-06	-	-	7	55
MPE-05	-	-	8	22
MPE-06	-	-	8	32
MPE-07	-	-	8	52
MPE-08	-	-	8	52
MPE-09	-	-	8	52
MPE-10	-	-	8	68
MPE-11	-	-	8	52
MPE-12	-	-	8	22
MPE-13	-	-	8	22
MPE-14	-	-	8	52
MPE-15	-	-	8	32
MPE-16	-	-	8	32
T-03	-	-	6	21
T-04	-	-	6	41
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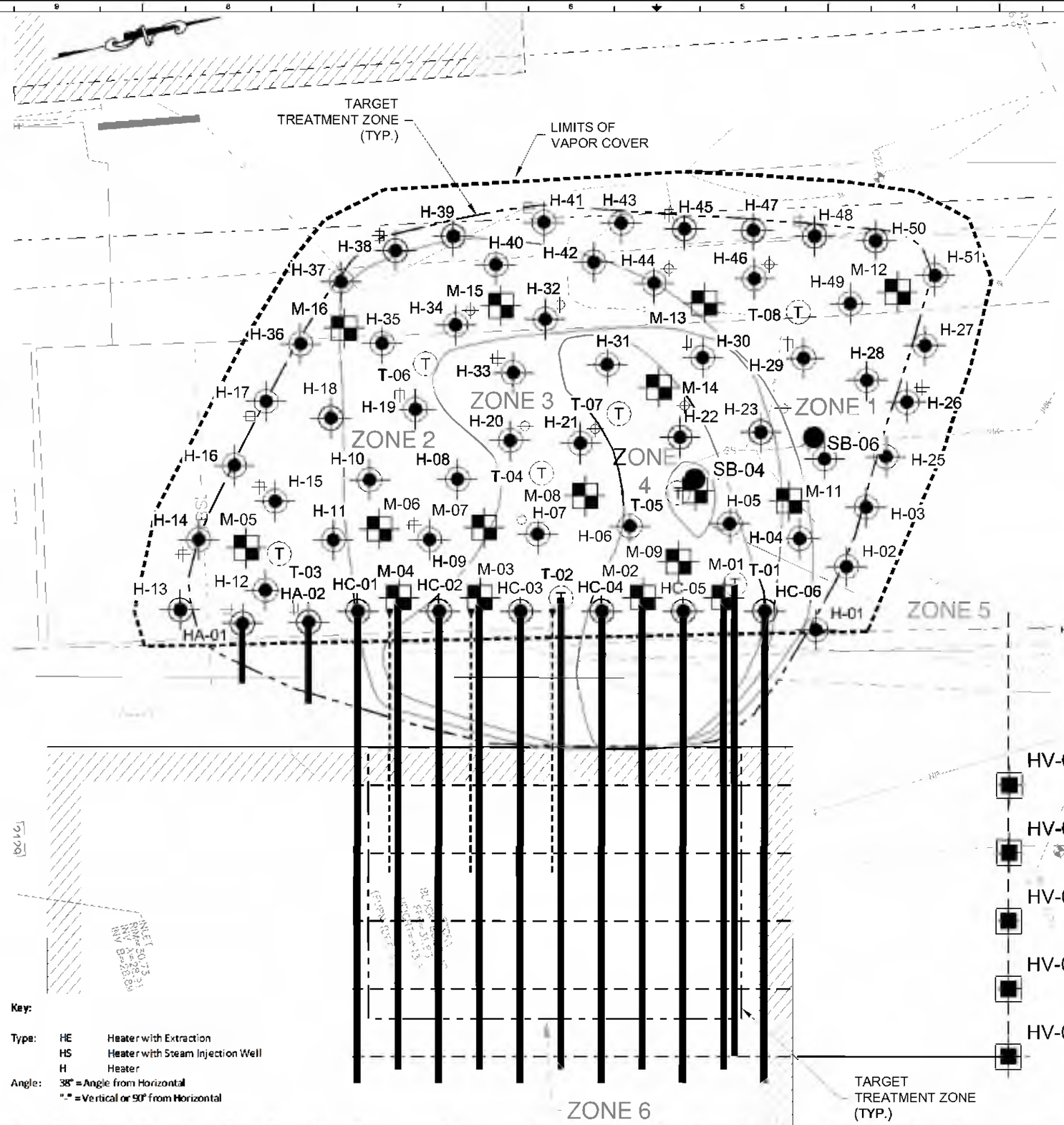
T-06	-	-	6	31
T-07	-	-	6	51
T-08	-	-	6	21



Key:

Type: HE Heater with Extraction
HS Heater with Steam Injection Well
H Heater
Angle: 38° = Angle from Horizontal
"-" = Vertical or 90° from Horizontal

NOTES:

1 THE BASE MAP WAS DRAWN FROM A PLAN ENTITLED, "BOUNDARY & TOPOGRAPHIC SURVEY" DATED DECEMBER 19, 2016, PREPARED BY DONALDSON GARRETT & ASSOCIATES, INC. OF CHARLOTTE, NC AND WAS RECEIVED ELECTRONICALLY ON APRIL 12, 2023 WITH AN ORIGINAL SCALE: 1" = 20'

2 INSTALLATION OF HORIZONTAL VAPOR EXTRACTION WELLS (HV) PERFORMED BY EA ENGINEERING. ONLY HV-1 THROUGH HV-5 SHOWN FOR CLARITY.

3 SB-04 AND SB-06 ARE HOT SOIL SAMPLING BORINGS CONVERTED TO STEAM INJECTION WELLS.

4 SHALLOW HORIZONTAL SOIL VAPOR EXTRACTION (HSVE) SYSTEM SHOWN ON M101 AND INSTALLED PER REMEDIAL DESIGN.

LEGEND:

- H — VERTICAL TCH HEATER (H) (26)
- H — VERTICAL TCH HEATER WITH EXTRACTION (H) (13)
- HA — ANGLED TCH HEATER WITH EXTRACTION (HA) (29)
- H — VERTICAL TCH HEATER WITH CO-LOCATED STEAM INJECTION WELL (H) (9)
- HC — ANGLED TCH HEATER CLUSTERS (HC) SEE SHEET 2 FOR CLUSTER LAYOUT (6 CLUSTERS WITH 5 HEATERS IN EACH FOR A TOTAL OF 30 HEATERS)
- M — VERTICAL MULTIPHASE EXTRACTION WELLS (M) (12)
- M — ANGLED MULTIPHASE EXTRACTION WELLS (M) (4)
- T — VERTICAL TEMPERATURE AND PRESSURE MONITORING POINT (T) (6)
- T — ANGLED TEMPERATURE AND PRESSURE MONITORING POINT (T) (2)
- SB — STEAM INJECTION WELL (SB) (2)
- HV — HORIZONTAL VAPOR EXTRACTION WELLS (HV) (10)
- TARGET TREATMENT ZONE
- LIMITS OF VAPOR COVER
- PROPERTY LINE

FINAL REPORT

REV	DATE	DR	CK	PE
2	8/7/24	TH	RB	CAT
1	7/7/2023	TH	RB	CAT
0	6/30/23	TH	RB	CAT
A	5/12/23	DG	KC	ECS

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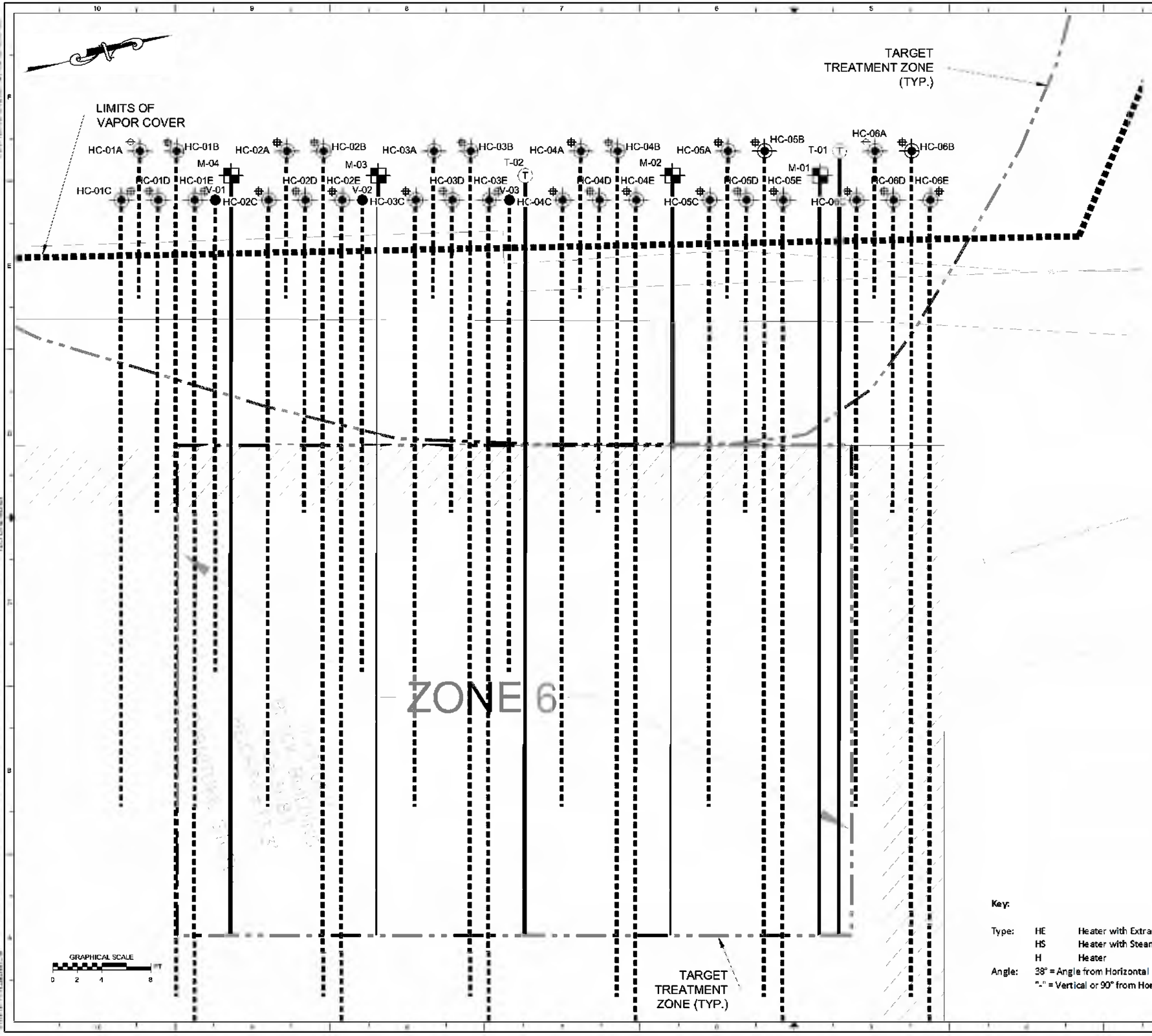
GARDNER, MA 01440
(978) 790-1775

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

WELLFIELD LAYOUT

SCALE: AS SHOWN
SHEET SIZE: D
REV: 2
REFERENCE: R23-104
SHEET: 1 OF 2
DRAWING NO: C102



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2. HEATER WELL CLUSTERS (6) COMPRISED OF ANGLED HEATERS (5 PER CLUSTER) WITH CO-LOCATED EXTRACTION (27) OR WITH STEAM INJECTION WELL (SW) (3).
3. HORIZONTAL VAPOR EXTRACTION WELLS NOT SHOWN.
4. V-01, V-02, AND V-03 INSTALLED TO REPLACE AND SUPPLEMENT EXTRACTION FROM HC-01E, HC-02E, AND HC-03E DUE GROUT INTRUSION INTO CO-LOCATED EXTRACTION SCREENS.

LEGEND:

- HC — TCH HEATER WELL CLUSTERS (6) CLUSTER COMPRISED OF ANGLED HEATERS WITH EXTRACTION AND STEAM INJECTION (30 HEATERS TOTAL IN 6 CLUSTERS)
- M — ANGLED MULTI-PHASE EXTRACTION WELLS (M) (4)
- T — ANGLED TEMPERATURE AND PRESSURE MONITORING POINT (T) (2)
- V — SUPPLEMENTAL ANGLED VEW (V) (3)
- TARGET TREATMENT ZONE
- LIMITS OF VAPOR COVER

ID		Type	Angle [°]	Boring Dia. [in]	Boring Depth [ft]
HC-01	HC-01A	HS	78	7	58.0
	HC-01B	HE	35	7	87.5
	HC-01C	HE	48	7	76
	HC-01D	HE	66	7	62
	HC-01E	HE	22	7	76.5
HC-02	HC-02A	HE	78	7	58.0
	HC-02B	HE	35	7	87.5
	HC-02C	HE	48	7	76
	HC-02D	HE	66	7	62
	HC-02E	HE	22	7	76.5
HC-03	HC-03A	HS	78	7	58.0
	HC-03B	HE	35	7	87.5
	HC-03C	HE	48	7	76
	HC-03D	HE	66	7	62
	HC-03E	HE	22	7	76.5
HC-04	HC-04A	HE	78	7	58.0
	HC-04B	HE	35	7	87.5
	HC-04C	HE	48	7	76
	HC-04D	HE	66	7	62
	HC-04E	HE	22	7	76.5
HC-05	HC-05A	HE	78	7	58.0
	HC-05B	HE	35	7	87.5
	HC-05C	HE	48	7	76
	HC-05D	HE	66	7	62
	HC-05E	HE	22	7	76.5
HC-06	HC-06A	HS	78	7	58.0
	HC-06B	HE	35	7	87.5
	HC-06C	HE	48	7	76
	HC-06D	HE	66	7	62
	HC-06E	HE	22	7	76.5
VEW	V-01	-	22	7	41.5
	V-02	-	22	7	41.5
	V-03	-	22	7	41.5
MPE	MPE-01	-	38	8	83
	MPE-02	-	38	8	83
	MPE-03	-	38	8	83
	MPE-04	-	38	8	83
TPMP	T-01	-	38	6	81
	T-02	-	38	6	81

Key:

Type: HE Heater with Extraction
HS Heater with Steam Injection Well
H Heater
Angle: 38° = Angle from Horizontal
"-" = Vertical or 90° from Horizontal

FINAL REPORT

NO.	DATE	BY	CK	DESCRIPTION
1	7/7/2023	RH	PF	90	FINAL REPORT ISSUE
2	6/30/23	RH	KC	DG	75% DESIGN - DRAFT
A	5/12/23	RH	KC	DG	DESCRIPTION

TERRATHERM
a Cascade Company
151 SUFFOLK LANE
GARDNER, MA 01440

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

WELLFIELD LAYOUT

SCALE: AS SHOWN
SHEET SIZE: D
REV: 2
PROJECT NO.: R23-104
SHEET: 2 OF 2
DWG NO.: C102

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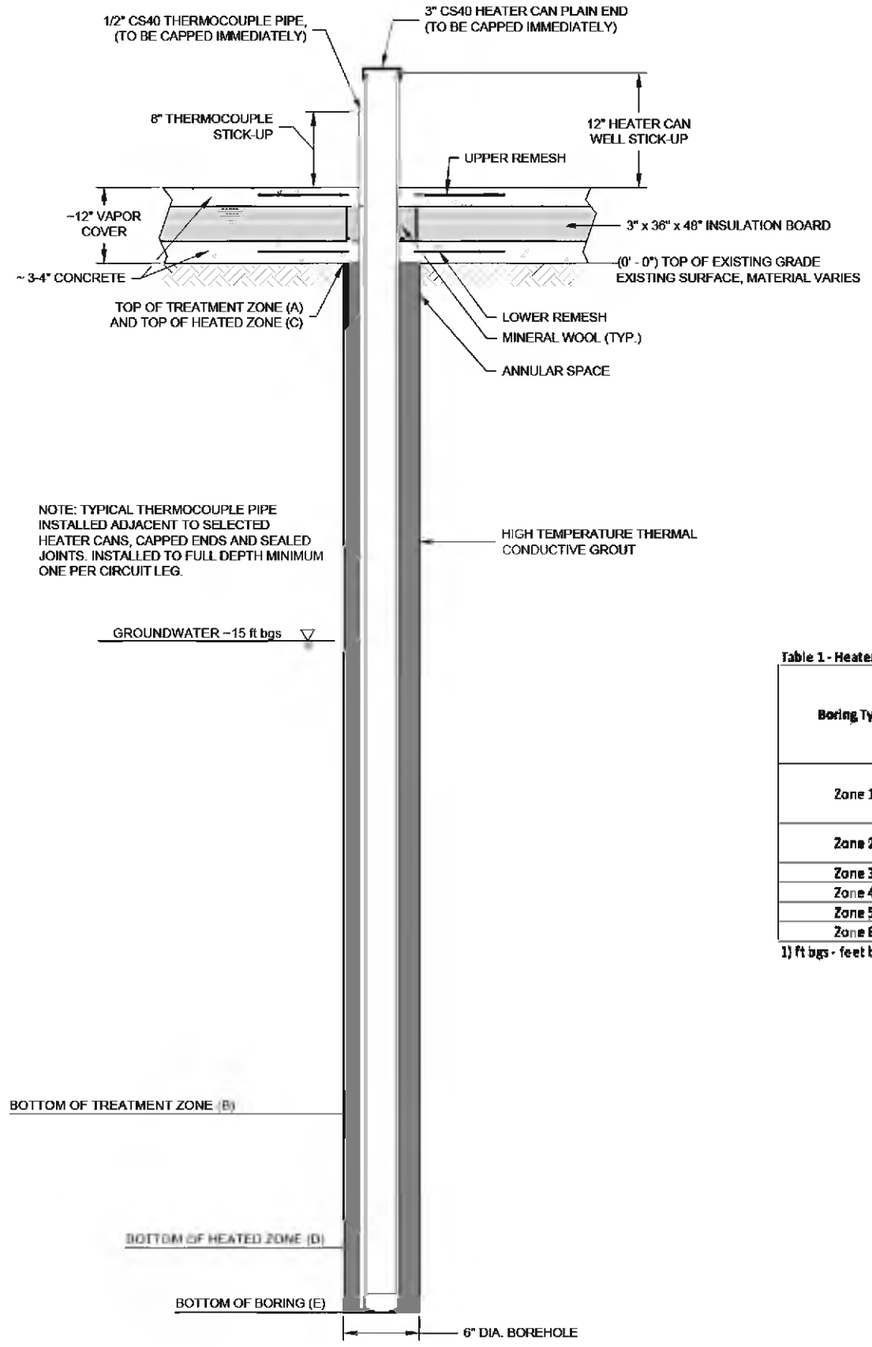


HEATER CAN TYPICAL DETAIL (H)
QTY (SEE TABLE 1) @ 3" CS40 PIPE

NOT TO SCALE

HEATER BORING SCHEDULE

Table 1 - Heater Boring Detail

Boring Type	Quantity	Well IDs	Top of Treatment Zone (A) ft bgs	Bottom of Treatment Zone (B) ft bgs	Top of Heated Zone (C) ft bgs	Bottom of Heated Zone (D) ft bgs	Bottom of Boring (E) ft bgs
Zone 1	11	H-03, H-12, H-13, H-16, H-25, H-27, H-28, H-47, H-49, H-50, H-51	0.0	20.0	0.0	25.0	26.0
Zone 2	9	H-10, H-11, H-18, H-35, H-36, H-37, H-39, H-40, H-43	0.0	30.0	0.0	35.0	36.0
Zone 3	3	H-02, H-08, H-42	0.0	40.0	0.0	45.0	47.0
Zone 4	3	H-01, H-04, H-31	0.0	50.0	0.0	55.0	57.0
Zone 5	2	H-05, H-06	0.0	66.0	0.0	71.0	73.0
Zone 6	1	HC-03A	10.0	50.0	5.0	55.0	58.0

1) ft bgs - feet below existing ground surface (prior to adding vapor cap)

NOTES:

1 EXISTING CONCRETE SLAB WILL SERVE AS THE BASE LAYER FOR THE VAPOR COVER OF CONCRETE.

2 HEATER CANS WILL BE GREASED THROUGH VAPOR COVER CONCRETE USING A VEGETABLE BASED GREASE (CRISCO OR SIMILAR) TO ALLOW FOR A NON BINDING THERMAL EXPANSION.

3 VAPOR COVER WILL NOT BE INSTALLED INSIDE BUILDING OR EASTERN ALLEY.

FINAL REPORT

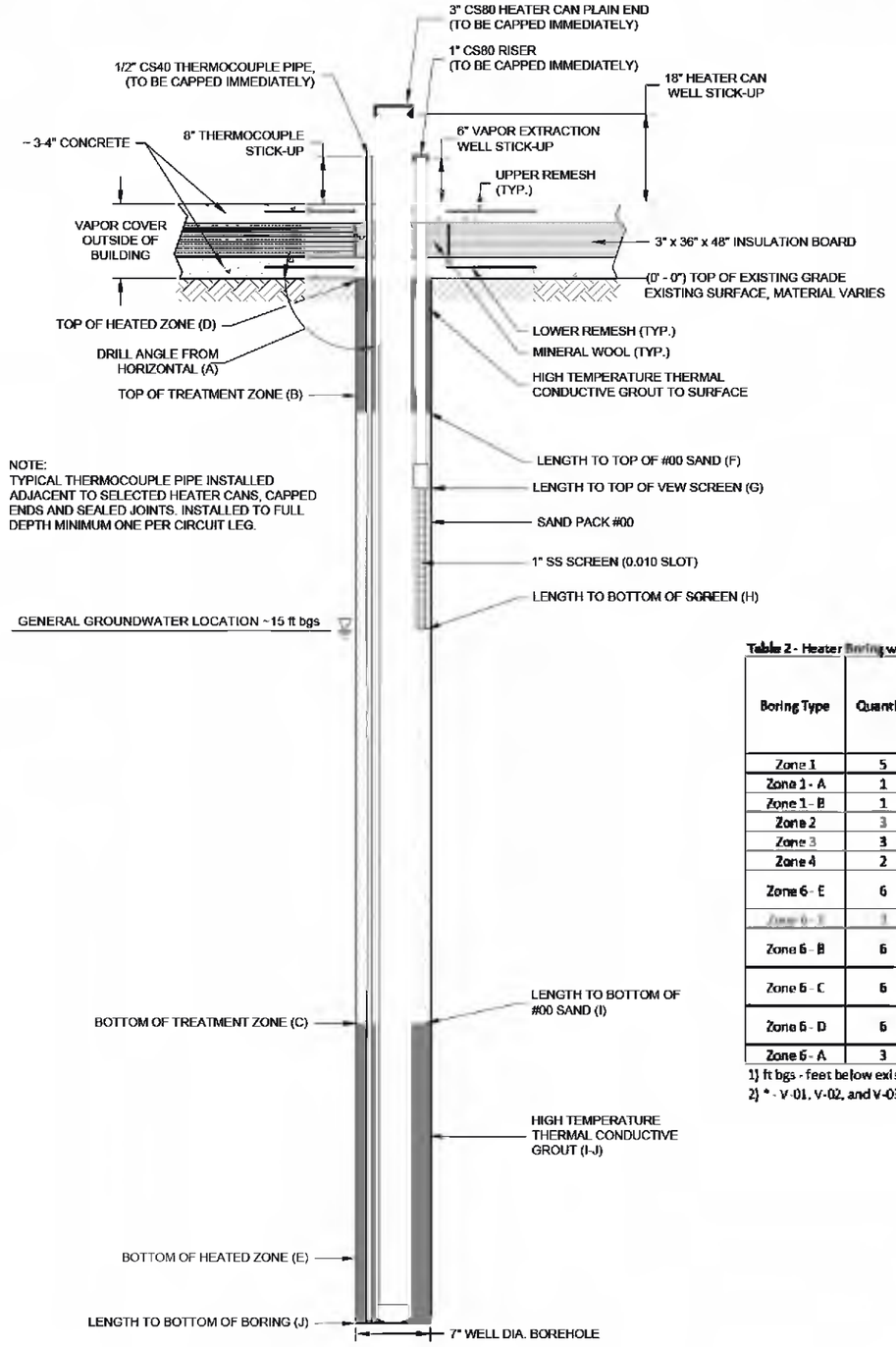
REV	DATE	BY	DESCRIPTION
0	7/14/25	PH	FINAL REPORT
A	6/19/25	PH	90% DESIGN - DRAFT

TERRATHERM
a Cascade Company
151 SUFFOLK LANE
GARDNER, MA 01440
WWW.TERRATHERM.COM

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

TYPICAL WELL CONSTRUCTION DETAILS

SCALE: AS SHOWN
SIZE: D REV: 0
PROJECT NO.: R23-104
SHEET: 1 OF 6
DRAWING NO.: C103



NOTE:
TYPICAL THERMOCOUPLE PIPE INSTALLED ADJACENT TO SELECTED HEATER CANS, CAPPED ENDS AND SEALED JOINTS. INSTALLED TO FULL DEPTH MINIMUM ONE PER CIRCUIT LEG.

HEATER CAN WITH CO-LOCATED VAPOR EXTRACTION TYPICAL DETAIL

QTY (SEE TABLE 2) @ 3" CS80 PIPE
(G-H) L X 1" SS WELL SCREEN, 0.010 SLOT, CS80 RISER

NOT TO SCALE

ANGLED BORING SHOWN VERTICAL FOR CLARITY

NOTES:

1 EXISTING CONCRETE SLAB WILL SERVE AS THE BASE LAYER FOR THE VAPOR COVER OF CONCRETE.

2 HEATER CANS WILL BE GREASED THROUGH VAPOR COVER CONCRETE USING A VEGETABLE BASED GREASE (CRISCO OR SIMILAR) TO ALLOW FOR A NON BINDING THERMAL EXPANSION.

3 VAPOR COVER WILL NOT BE INSTALLED INSIDE BUILDING OR EASTERN ALLEY.

HEATER BORING WITH CO-LOCATED VAPOR EXTRACTION WELL SCHEDULE

Table 2 - Heater Boring with Co-Located Screen Detail

Boring Type	Quantity	Well IDs	Drill Angle from Horizontal (A) °	Top of Treatment Zone (B) ft bgs	Bottom of Treatment Zone (C) ft bgs	Top of Heated Zone (D) ft bgs	Bottom of Heated Zone (E) ft bgs	Length to Top of #00 Sand (F) ft	Length to Top of VEW Screen (G) ft	Length to Bottom of VEW Screen (H) ft	Length to Bottom of #00 Sand (I) ft	Length to Bottom of Boring (J) ft
Zone 1	5	H-14, H-15, H-17, H-26, H-48	90	0.0	20.0	0.0	25.0	1.0	3.0	13.0	20.0	26.0
Zone 1 - A	1	HA-02	62	0.0	20.0	0.0	25.0	1.0	4.5	14.5	22.5	27.0
Zone 1 - B	1	HA-01	73	0.0	20.0	0.0	25.0	1.0	3.5	13.5	21.0	27.0
Zone 2	3	H-38, H-41, H-45	90	0.0	30.0	0.0	35.0	1.0	3.0	13.0	30.0	36.0
Zone 3	3	H-09, H-19, H-29	90	0.0	40.0	0.0	45.0	1.0	3.0	13.0	40.0	47.0
Zone 4	2	H-30, H-33	90	0.0	50.0	0.0	55.0	1.0	3.0	13.0	50.0	57.0
Zone 6 - E	6	HC-01E*, HC-02E*, HC-03E*, HC-04E, HC-05E, HC-06E	22	10.0	50.0	5.0	55.0	24.5	26.5	34.5	61.5	76.5
Zone 6 - E	3	V-01, V-02, V-03	22	10.0	50.0	5.0	55.0	39.5	26.5	41.5	41.5	41.5
Zone 6 - B	6	HC-01B, HC-02B, HC-03B, HC-04B, HC-05B, HC-06B	35	10.0	50.0	5.0	55.0	3.0	5.0	22.5	76.5	87.5
Zone 6 - C	6	HC-01C, HC-02C, HC-03C, HC-04C, HC-05C, HC-06C	48	10.0	50.0	5.0	55.0	2.0	4.0	17.5	67.5	76.0
Zone 6 - D	6	HC-01D, HC-02D, HC-03D, HC-04D, HC-05D, HC-06D	66	10.0	50.0	5.0	55.0	2.0	4.0	14.0	54.5	62.0
Zone 6 - A	3	HC-02A, HC-04A, HC-05A	78	10.0	50.0	5.0	55.0	1.0	3.0	13.5	51.0	58.0

1) ft bgs - feet below existing ground surface (prior to adding vapor cap)
2) * - V-01, V-02, and V-03 were installed to replace HC-01E, HC-02E, and HC-03E due to grout intrusion.

FINAL REPORT

NO.	DATE	DESCRIPTION
1	9/15/23	FINAL REPORT
0	7/31/23	90% DESIGN - DRAFT

TERRATHERM
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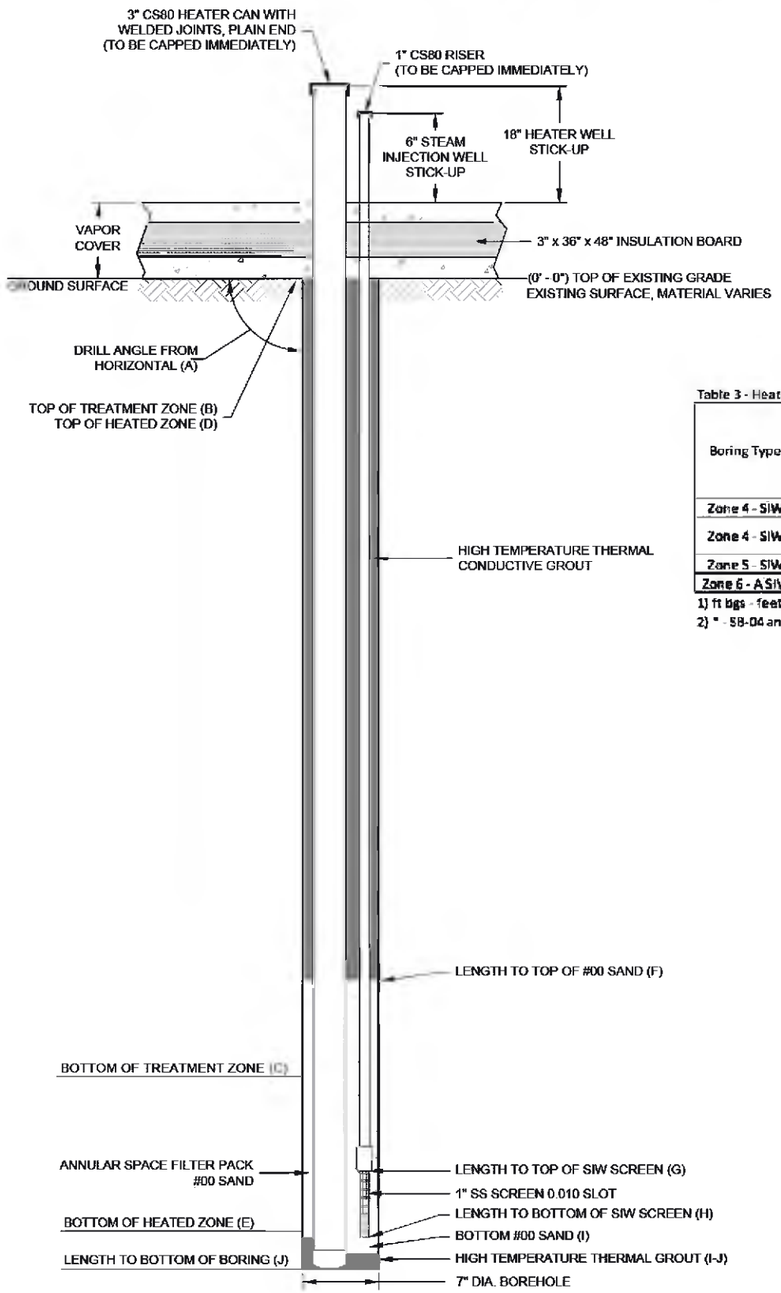
IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

TYPICAL WELL CONSTRUCTION DETAILS

SCALE: AS SHOWN
SIZE: D REV: 0
JOB NO.: R23-104
SHEET: 2 OF 6
C103



HEATER WELL WITH CO-LOCATED STEAM INJECTION WELL
TYPICAL DETAIL (HI)

QTY (SEE TABLE 3) @ **3" CS80 RISER PIPE, "G-H" L X** 1" SS WELL SCREEN WITH WELDED END CAP, 0.010 SLOT
1" CS80 RISER PIPE

NOT TO SCALE

ANGLED BORING SHOWN VERTICAL FOR CLARITY

NOTES:

1 EXISTING CONCRETE SLAB WILL SERVE AS THE BASE LAYER FOR THE VAPOR COVER OF CONCRETE.

2 SOIL BORINGS SB-04 AND SB-06 WERE CONVERTED TO STEAM INJECTION WELLS. THEY ARE NOT CO-LOCATED WITH A HEATER.

HEATER BORING WITH CO-LOCATED STEAM INJECTION WELL SCHEDULE

Table 3 - Heater Boring with Co-Located Steam Injection Wells

Boring Type	Quantity	Well IDs	Drill Angle from Horizontal (A) °	Top of Treatment Zone (B) ft bgs	Bottom of Treatment Zone (C) ft bgs	Top of Heated Zone (D) ft bgs	Bottom of Heated Zone (E) ft bgs	Length to Top of #00 Sand (F) ft bgs	Length to Top of SIW Screen (G) ft bgs	Length to Bottom of SIW Screen (H) ft bgs	Length to Bottom of #00 Sand (I) ft bgs	Length to Bottom of Boring (J) ft bgs
Zone 4 - SIW	2	SB-04*, SB-06*	90	0.0	20.0	0.0	55.0	51.0	51.0	53.0	55.0	55.0
Zone 4 - SIW	9	H-07, H-20, H-21, H-23, H-24, H-32, H-34, H-44, H-46	90	0.0	50.0	0.0	55.0	30.0	50.0	52.0	54.0	57.0
Zone 5 - SIW	1	H-22	90	0.0	66.0	0.0	71.0	30.0	68.0	68.0	70.0	73.0
Zone 6 - ASIW	2	HC-01A, HC-06A	78	10.0	50.0	5.0	55.0	30.5	51.0	53.0	55.0	58.0

1) ft bgs - feet below existing ground surface (prior to adding vapor cap)
2) * - SB-04 and SB-05 are steam injection wells installed during operations and do not include heaters

FINAL REPORT

REV	DESCRIPTION	DATE
0	FINAL REPORT	9/4/2024
1	90% DESIGN - DRAFT	6/7/2024

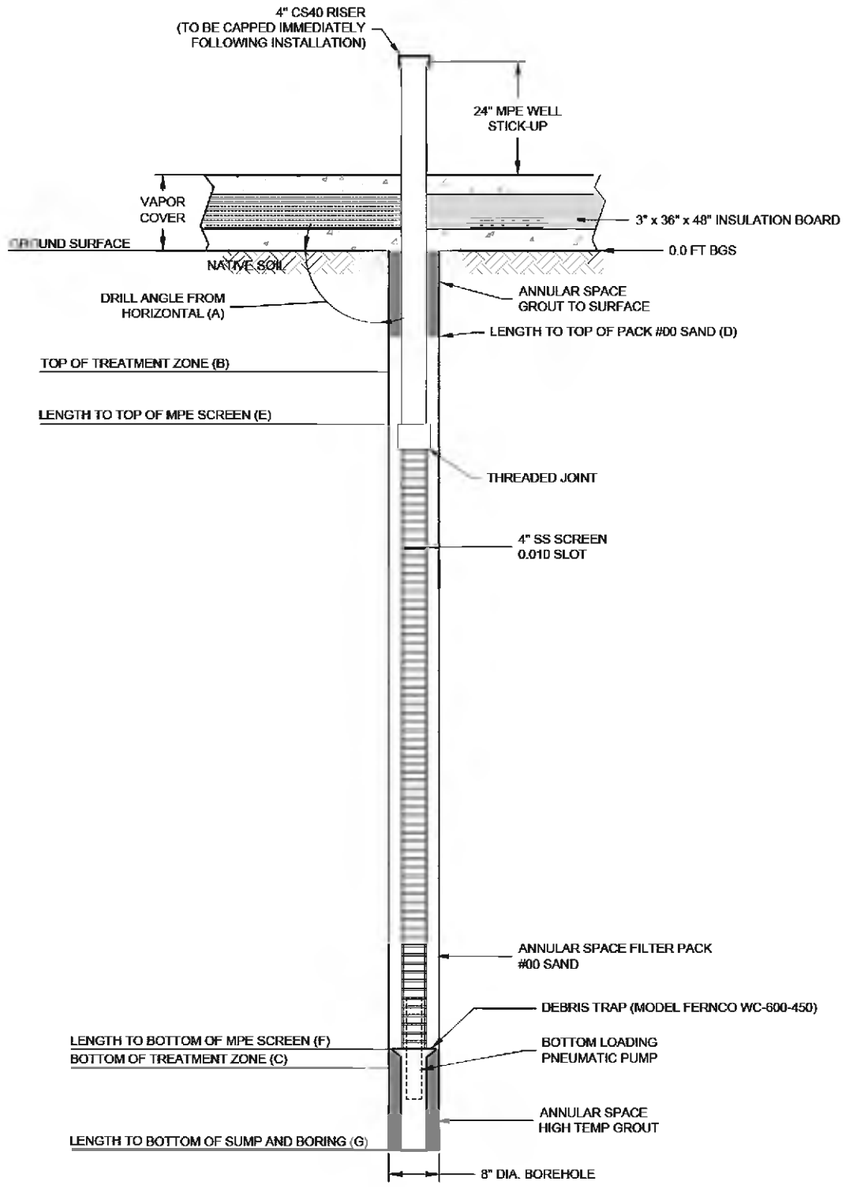
TERRATHERM
a Cascade Company
151 SUFFOLK LANE

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

TYPICAL WELL CONSTRUCTION DETAILS

SCALE: AS SHOWN
SIZE: D REV: 0
TCE NO.: R23-104
SHEET: 3 OF 6
C103

FILE: J:\PROJECTS\IRA ENGINEERING CTB FILE: TT-STANDARD.CTB



MULTIPHASE EXTRACTION WELL (M)

QTY (SEE TABLE 4) "E-F" L X 4" SS WELL SCREEN, 0.010 SLOT
4" CS40 RISER PIPE

NOT TO SCALE

ANGLED BORING SHOWN VERTICAL FOR CLARITY

NOTES:

1 EXISTING CONCRETE SLAB WILL SERVE AS THE BASE LAYER FOR THE VAPOR COVER OF CONCRETE.

MULTI-PHASE EXTRACTION WELL SCHEDULE

Table 4 - Multiphase Extraction Well Detail

Boring Type	Quantity	Well IDs	Drill Angle from Horizontal (A) °	Top of Treatment Zone (B) ft bgs	Bottom of Treatment Zone (C) ft bgs	Length to Top of #00 Sand (D) ft	Length to Top of MPE Screen (E) ft	Length to Bottom of MPE Screen (F) ft	Length Bottom of Sump and Boring (G) ft
Zone 1	3	M-05, M-12, M-13	90	0.0	20.0	1.0	3.0	20.0	22.0
Zone 2	3	M-06, M-15, M-16	90	0.0	30.0	1.0	3.0	30.0	32.0
Zone 3	0	--	--	0.0	40.0	--	--	--	--
Zone 4	5	M-07, M-08, M-09, M-11, M-14	90	0.0	50.0	1.0	3.0	50.0	52.0
Zone 5	1	M-10	90	0.0	66.0	1.0	3.0	66.0	68.0
Zone 6	4	M-01, M-02, M-03, M-04	38	10.0	50.0	14.0	16.0	81.0	83.0

1) ft bgs - feet below existing ground surface (prior to adding vapor cap)

FINAL REPORT

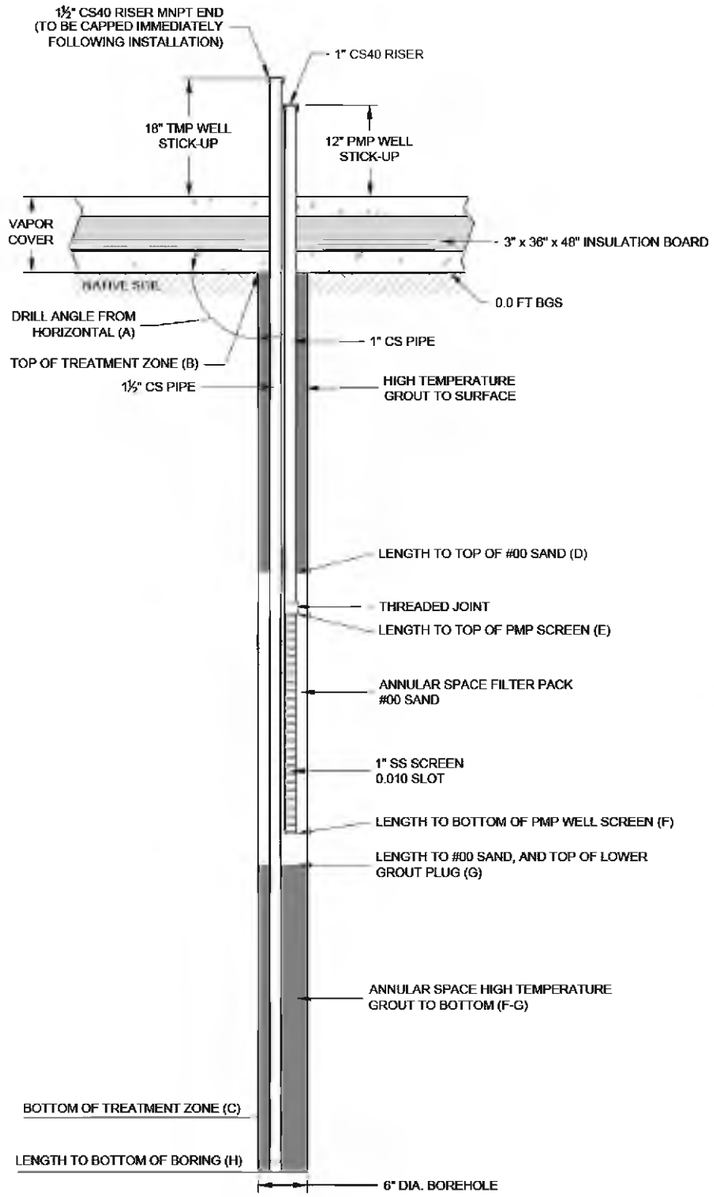
REV	DATE	BY	DESCRIPTION
0	9/4/2024	PFI	FINAL REPORT
A	5/12/2024	PFI	90% DESIGN - DRAFT

TERRATHERM
a Cascade Company
151 SUFFOLK LANE
GRAHAM, NC 27253
WWW.TERRATHERM.COM

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

TYPICAL WELL CONSTRUCTION DETAILS

SCALE: AS SHOWN
SHEET SIZE: D
REV: 0
REFERENCE NO.: R23-104
SHEET: 4 OF 6
DWG NO.: C103



TEMPERATURE AND PRESSURE MONITORING POINT (TT)

QTY (SEE TABLE 5) 1-1/2" CS40 PIPE FOR TEMPERATURE MONITORING AND "E-F" L X 1" SS WELL SCREEN, 0.010 SLOT WITH A CS40 RISER FOR PRESSURE MONITORING

TEMPERATURE MONITORING SENSOR DEPTHS (SEE TABLE 5)
NOT TO SCALE

NOTES:

1 EXISTING CONCRETE SLAB WILL SERVE AS THE BASE LAYER FOR THE VAPOR COVER.

TEMPERATURE AND PRESSURE MONITORING POINT SCHEDULE

Table 5 - Co-Located Temperature and Pressure Monitoring Point Detail

Boring Type	Quantity	Well IDs	Drill Angle from Horizontal (A) °	Top of Treatment Zone (B) ft bgs	Bottom of Treatment Zone (C) ft bgs	Length to Top of #00 Sand (D) ft	Length to Top of PMP Screen (E) ft	Length to Bottom of PMP Screen (F) ft	Length to Bottom of #00 Sand and Top of Lower Grout (G) ft	Length to Bottom of Boring (H) ft	Temperature Sensor Locations ft bgs
Zone 1	2	T-03, T-08	90	0.0	20.0	1.0	3.0	5.0	7.0	21.0	1', 4', 7', 10', 13', 16', 19'
Zone 2	1	T-06	90	0.0	30.0	1.0	3.0	5.0	7.0	31.0	1', 4', 7', 10', 13', 16', 19', 22', 25', 28'
Zone 3	1	T-04	90	0.0	40.0	1.0	3.0	5.0	7.0	41.0	1', 4', 7', 10', 13', 16', 19', 22', 25', 28', 31', 34', 37', 40'
Zone 4	1	T-07	90	0.0	50.0	1.0	3.0	5.0	7.0	51.0	1', 4', 7', 10', 13', 16', 19', 22', 25', 28', 31', 34', 37', 40', 43', 46', 49'
Zone 5	1	T-05	90	0.0	66.0	1.0	3.0	5.0	7.0	67.0	1', 4', 7', 10', 13', 16', 19', 22', 25', 28', 31', 34', 37', 40', 43', 46', 49', 52', 55', 58', 61', 64'
Zone 6	2	T-01, T-02	38	10.0	50.0	3.0	5.0	8.0	10.0	81.0	6', 7', 9', 11', 13', 15', 17', 18', 20', 22', 24', 26', 28', 30', 31', 33', 35', 37', 39', 41', 42', 44', 46', 48', 50'

1) ft bgs - feet below existing ground surface (prior to adding vapor cap)

FINAL REPORT

NO	BY	DATE	DESCRIPTION
1	TH	07/2023	FINAL REPORT
0	TH	04/2023	90% DESIGN - DRAFT

TERRATHERM
a Cascade Company
(D SUPERCLEAN)
SARATOGA SPRINGS, NY 12866
WWW.TERRATHERM.COM

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

TYPICAL WELL CONSTRUCTION DETAILS

SCALE: AS SHOWN
SIZE: D REV: 0
JOB NO.: R23-104
SHEET: 5 OF 6
DWG: C103

FILE: J:\PROJECTS\SA ENGINEERING CTB FILE: TT-STANDARD.CTB

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NOTES:

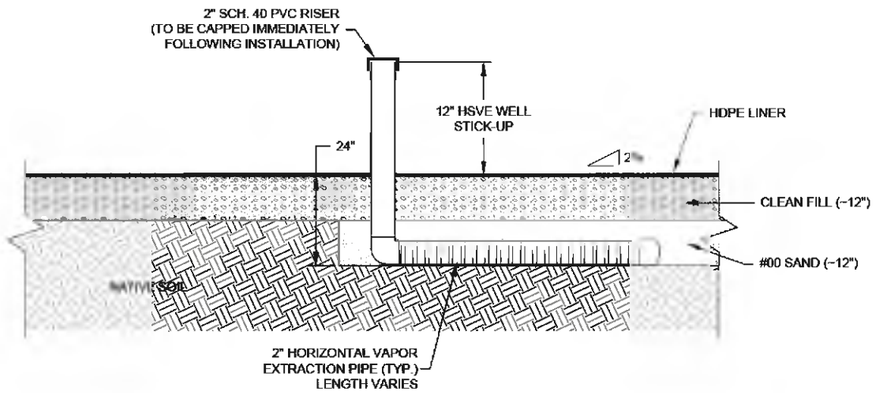
1 SURFACE SOIL SVE LAYOUT AND DETAILS SPECIFIED IN FINAL REMEDIAL DESIGN FOR ABC ONE-HOUR CLEANERS OU3, SHEET C-430.

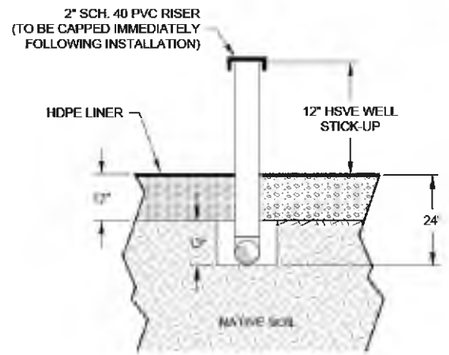
2 LAYOUT IS SHOWN ON M101.

3 HSVE-1 WAS CONVERTED FROM A 55-FT SCREEN TO A 40-FT SCREEN WITH TWO VERTICAL PORTS BENEATH AN EXISTING CONCRETE SLAB. THIS FIELD DESIGN CHANGE ACHIEVED THE SAME HORIZONTAL EXTENT OF EXTRACTION WHILE TAKING ADVANTAGE OF THE EXISTING CONCRETE SLAB FOR IMPROVING PNEUMATIC CONTROL.

Table 6- Horizontal Soil Vapor Extraction Well Detail

Well ID	Length (ft)
AEW-1	55.0
HSVE-1	55.0
HSVE-2	5.0
HSVE-3	5.0
HSVE-4	5.0
HSVE-5	10.0





HORIZONTAL SOIL VAPOR EXTRACTION AND AIR ENTRY WELL DETAIL

2" SLOTTED WELL SCREEN, 0.010 SLOT
SEE SHEET M101 FOR HSVE LAYOUT

NOT TO SCALE

FINAL REPORT

REV	DESCRIPTION	DRN	CHK	APP
0	FINAL REPORT	CJ	CJ	PM
A	95% DESIGN - DRAFT	CJ	CM	

SEAL

TERRATHERM
a Cascade Company
151 SUFFOLK LANE
GARDNER, MA 01440

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

TYPICAL WELL CONSTRUCTION DETAILS

SCALE: AS SHOWN
SIZE: D REV: 0
PROJECT NO.: R23-104
SHEET NO.: 6 OF 6
DRAWING NO.: C103

ELECTRICAL ONELINE LEGEND (SMART SYMBOL)

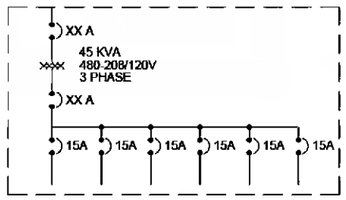
TERRATHERM FREQUENTLY USED TERMS AND SYMBOLS

A	- AMPERE
AMP	- AMPERE
ATS	- AUTOMATIC TRANSFER SWITCH
C.S.	- CARBON STEEL
DP	- DISTRIBUTION PANEL
FLA	- FULL LOAD AMPS. MOTOR FLA ARE SPECIFIED PER NEC 430.250
GFCI	- GROUND FAULT CIRCUIT INTERRUPTER
KVA	- KILOVOLT-AMPERE
KW	- KILOWATTS
KWHR	- KILOWATT-HOUR
LC	- LOAD CENTER
LCP	- LOCAL CONTROL PANEL
MSWB	- MAIN SWITCHBOARD
OWS	- OIL WATER SEPARATOR
SCR	- SILICON CONTROLLED RECTIFIER
T(XXX)	- TERRATHERM EQUIPMENT IDENTIFICATION NUMBER
V	- VOLTS
VFD	- VARIABLE FREQUENCY DRIVE
XX/XXX	- PLACE HOLDER - INFORMATION TO BE ADDED FOR SPECIFIC PROJECT

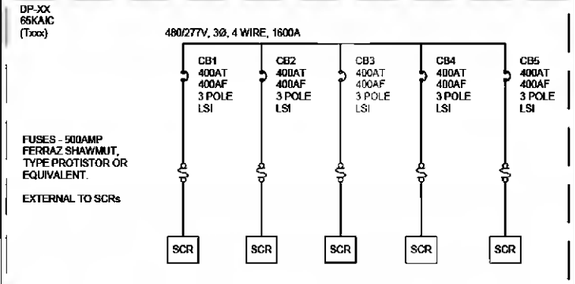
- WIRE TERMINATION / CONNECTION POINT
- ELECTRICAL CONDUCTOR / WIRE
- SEMI-CONDUCTOR FUSE
- HEATER ELEMENT AS REPRESENTED IN ONELINE. LETTER IN HEXAGON DENOTES HEATER TYPE.
- HEAT TRACE FOR PIPING
- XX — DISCONNECT SWITCH RATING AS NOTED
- VFD — VARIABLE FREQUENCY DRIVE (VFD)
- XX / FLA XXX — MOTOR. HORSEPOWER AS INDICATED IN CIRCLE. FULL LOAD AMPS (FLA) AS NOTED PER APPLICABLE NEC TABLE.
- MS — MOTOR STARTER
- XX KW — STANDBY GENERATOR. KW RATING AS NOTED.
- XXX : XXX V — VOLTAGE TRANSFORMER, TYPICALLY USED FOR METERING. VOLTAGE RATIO AS NOTED.
- XXX : 5 A — CURRENT TRANSFORMER, TYPICALLY USED FOR METERING. CURRENT TRANSFORMER RATIO AND POLARITY AS NOTED.
- M — ENERGY METER (KWHR) MODEL AS NOTED
- KVA / PRI_VOLT: 480/277V / %z — POWER TRANSFORMER WITH PRIMARY VOLTS, SECONDARY VOLTS, KVA RATINGS, AND % IMPEDANCE AS NOTED
- EQUIPMENT SKID BOUNDARY
- ATS-1 / XXX A / N / E / L — AUTOMATIC TRANSFER SWITCH. SWITCH AMP RATING AS NOTED
- RATED HP @460V / FLA X - X / XX AMPS MAX — UL COMBINATION STARTER TYPE E, SELF-PROTECTED OR TYPE F. FULL LOAD AMP RATING ADJUSTABLE IN SPECIFIED RANGE.

ELECTRICAL ONELINE LEGEND (SMART SYMBOL - INTEGRATED EQUIPMENT)

- CB # / AMP / 3 POLES — LOW VOLTAGE AIR CIRCUIT BREAKER WITH RATING AND NUMBER OF POLES AS NOTED. NON-ADJUSTABLE TYPE.
- CB # / XX AT / XX AF / 3 POLES — LOW VOLTAGE AIR CIRCUIT BREAKER WITH RATING AND NUMBER OF POLES AS NOTED TRIP RATING ADJUSTABLE TYPE.
- CB # / XX AT / XX AF / 3 POLES / LSIG — LOW VOLTAGE AIR CIRCUIT BREAKER WITH RATING AND NUMBER OF POLES AS NOTED. TRIP RATING ADJUSTABLE TYPE. PROTECTION TO BE SPECIFIED AS REQUIRED.
- CB # / XX AT / XX AF / 3 POLES / LSIG — LOW VOLTAGE AIR CIRCUIT BREAKER WITH RATING AND NUMBER OF POLES AS NOTED. TRIP RATING ADJUSTABLE TYPE. PROTECTION TO BE SPECIFIED AS REQUIRED. DRAWOUT TYPE.
- CB # / XX AT / XX AF / 3 POLES / LSIG — MEDIUM VOLTAGE VACUUM CIRCUIT BREAKER WITH RATING AND NUMBER OF POLES AS NOTED. TRIP RATING ADJUSTABLE. PROTECTION TO BE SPECIFIED AS REQUIRED. DRAWOUT TYPE.
- XXX AMP FUSE TYPE — FUSE RATING AND TYPE AS NOTED.
- XXX A - SWITCH / XXX AMP FUSE / FUSE_TYPE — FUSED DISCONNECT SWITCH WITH SWITCH RATING, FUSE RATING AND TYPE AS NOTED.



INTEGRATED PANEL WITH TRANSFORMER ASSEMBLY. PRIMARY AND SECONDARY BREAKERS AS NOTED. DISTRIBUTION PANEL CONTAINS BREAKERS AS NOTED.

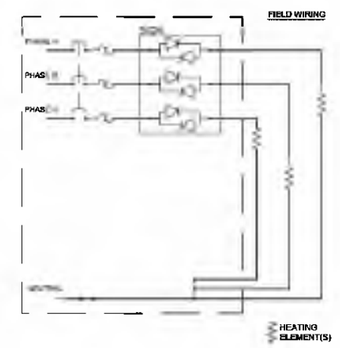


INTEGRATED DISTRIBUTION PANEL WITH BUILT-IN SCR CABINETS / ZONES. EACH ZONE HAS CUSTOMIZABLE PROTECTION FOR THE HEATER CIRCUIT AND THE SCR.

SCR POWER WIRING SCHEMATICS

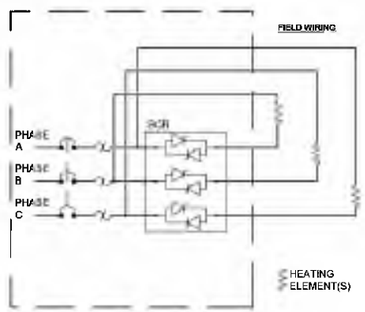
HEATER CIRCUIT - WYE CONFIGURED, 277V

HEATER CIRCUIT - WYE CONFIGURED, 277V,
TYPICAL WIRING WITHIN INTEGRATED SCR CABINET



HEATER CIRCUIT - INSIDE DELTA CONFIGURED, 480V

HEATER CIRCUIT - WYE CONFIGURED, 277V,
TYPICAL WIRING WITHIN INTEGRATED SCR CABINET



ELECTRICAL WIRE LAYOUT SYMBOLS

- GFCI — GROUND FAULT CIRCUIT INTERRUPTER (GFCI) DUPLEX OUTLET WITH WEATHERPROOF COVER.
- ES — EMERGENCY STOP - PUSHBUTTON STATION
- GFCI — OUTDOOR LIGHTING WITH GFCI DUPLEX RECEPTACLE IN WEATHERPROOF COVER
- ES / GFCI — OUTDOOR LIGHTING WITH GFCI DUPLEX RECEPTACLE AND E-STOP ON SHARED POLE

GENERAL NOTES

THE FOLLOWING NOTES ARE APPLICABLE TO ALL ELECTRICAL DRAWINGS, OR E-SERIES, UNLESS SPECIFICALLY STATED OTHERWISE ON THE SPECIFIC DRAWING. THE FOLLOWING IS NOT AN ALL-INCLUSIVE LIST OF RELEVANT CODE APPLICABLE TO THIS PROJECT BUT IS INTENDED TO HIGHLIGHT THE MAJOR SECTIONS ONLY.

GENERAL NOTES:

1 TERRATHERM, INC. WILL PROVIDE ALL FLEXIBLE CORDS AND CONNECTORS FOR EQUIPMENT SHOWN ON DRAWING. CONTRACTOR MAY BE REQUESTED TO PROVIDE ADDITIONAL MATERIAL ON A T&M BASIS AS SITE CONDITION CHANGES.

2 TERRATHERM, INC. ELECTRICAL DESIGNS ARE BASED ON ARTICLE 590, TEMPORARY INSTALLATION, OF THE NATIONAL ELECTRIC CODE, 2017. ALL TEMPORARY WIRING AND EQUIPMENT WILL BE REMOVED AT THE CONCLUSION OF THE PROJECT. ALL CABLE SHALL BE LISTED FOR HARD OR EXTRA-HARD USAGE PER ARTICLE REQUIREMENT.

3. TYPE "W" AND TYPE "G-GC" ARE CLASSIFIED FOR EXTRA HARD USAGE PER NEC TABLE 400-4. TYPE "W" AND TYPE "G-GC" CABLE AMPACITY ARE SPECIFIED PER NEC ARTICLE 400-5(A)(2) USING 75 DEGREE C COLUMN F3 FOR THREE-CONDUCTOR (3/C) CABLES. COLUMN D1 IS USED FOR SINGLE-CONDUCTOR (1/C) WHERE THE CONDUCTOR IS NOT IN PHYSICAL CONTACT WITH EACH OTHER.

4 ALL CABLE SHALL BE BOTTOM ENTRY WHEREVER PRACTICAL. PER NEC 110.14, ALL TERMINALS OF EQUIPMENT >100A ARE ASSUMED TO BE 75C RATED UNLESS OTHERWISE NOTED.

5 GROUNDING SHALL BE INSTALLED PER NEC ARTICLE 250 - "GROUNDING AND BONDING FOR ALL EQUIPMENT". ROUTE ALL HEATER CIRCUIT EQUIPMENT GROUNDS WITH THE HEATER CIRCUIT CONDUCTORS TO EACH WELLHEAD. REFERENCE TYPICAL GROUNDING DETAILS FOR ADDITIONAL INFORMATION.

6 THE GROUNDING ELECTRODE CONDUCTOR FOR A SEPARATELY DERIVED SYSTEM (TRANSFORMER) SHALL BE INSTALLED AT THE FIRST DISCONNECTING MEAN PER NEC ARTICLE 250.30.

7 GENERATOR SHALL BE WIRED PER NEC ARTICLE 702, OPTIONAL STANDBY SYSTEMS. THE GENERATOR WILL BE WIRED TO A THREE (3) POLE TYPE AUTOMATIC TRANSFER SWITCH (ATS) AND SHOULD BE WIRED AS A NON-SEPARATELY DERIVED SYSTEM, I.E. DO NOT BOND NEUTRAL AT GENERATOR. WIRE EMERGENCY STOP SIGNAL TO PREVENT GENERATOR START DURING AN EMERGENCY. EMERGENCY STOP SIGNAL SHALL ALSO BE WIRED TO SHUNT TRIP THE MAIN BREAKER(S).

8 MAINTAIN WORKING CLEARANCE PER NEC ARTICLE 110.26 - "SPACES ABOUT ELECTRICAL EQUIPMENT".

9 ALL POWER DISTRIBUTION EQUIPMENT SHALL BE UL LISTED OR CERTIFIED BY A 3RD PARTY NRTL.

10. ALL PROCESS EQUIPMENT CONTROL PANELS SHALL BE BUILT TO APPLICABLE UL STANDARDS SUCH AS UL 508, UL 698. EQUIPMENT MAY BE FIELD EVALUATED BY A NRTL IF THE ABOVE STANDARD IS NOT AVAILABLE.

11. EQUIPMENT WITH "A" AND "B" TAG SUCH AS P-101A AND P-101B ARE NON-COINCIDENTAL LOADS.

12. USE THE FOLLOWING COLOR CODES FOR CONDUCTOR IDENTIFICATION:

	208Y / 120 VOLT	480 / 277 VOLT
PHASE A	BLACK	BROWN
PHASE B	RED	ORANGE
PHASE C	BLUE	YELLOW
NEUTRAL	WHITE	GRAY

13. ALL WORK SHALL CONFORM TO THE LATEST LOCAL, STATE AND FEDERAL REQUIREMENTS AS INTERPRETED BY THE AUTHORITY HAVING JURISDICTION

SITE SPECIFIC NOTES:

1 AMPACITIES OF CABLE ARE CORRECTED FOR A MAX AMBIENT TEMPERATURE OF 91 DEGREE F

2 THE AVAILABLE FAULT CURRENT IS ASSUMED TO BE < 65KA. EXACT NUMBERS TO BE PROVIDED BY UTILITY

FINAL REPORT

NO.	DESCRIPTION	DATE
1	FINAL REPORT	
0	90% DESIGN - DRAFT	

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IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

ELECTRICAL LEGEND

SCALE: NTS
DWN: D REV: 0
JOB NO.: R23-104
SHEET: 1 OF 1
DRAWING NO.: E100

ELECTRICAL LOAD SUMMARY (480V)

CALCULATED PER 430.24. ROUNDING PER NEC 220.5(B)

	CONNECTED LOAD (A)		LOAD MULTIPLIER		DESIGN LOAD	
HEATER LOAD	940	x	1.0	=	940 A	
LARGEST MOTOR LOAD	34	x	1.25	=	43 A	
REMAINING MOTOR LOAD	278	x	1.0	=	278 A	
GENERAL POWER (CONTINUOUS)	135	x	1.25	=	169 A	
			SUB-TOTAL LOAD	=	1429 A	
			TOTAL DESIGN LOAD	=	1429 A	1188 KVA

FINAL REPORT

T1
12.4-480 / 277V
2000 KVA

TOTAL CONNECTED LOAD
ON TRANSFORMER T1
1429 AMPS
1188 KVA

M~

START OF TERRATHERM SCOPE

5 x [4-1/C 500 KCMIL XHHW-2 W/ #4/0 AWG GND]
(5) 4" SCH 40 PVC RIGID CONDUIT

(T196-3)
MSWB-01

CB-SM1
2000AT
5000AF
3 POLE
LSIG

(1) E-STOP
(SHUNT
TRIP)

480/277V, 3Ø, 4 WIRE, 3000A, 65 KAIC

CB-M1
1000AT
1600AF
3 POLE
LSI

CB-M2
1600AT
1600AF
3 POLE
LSI

CB-M3
1600AT
1600AF
3 POLE
LSI

CB-M4
640AT
1600AF
3 POLE
LSI

SPARE

#4/0 CU.
GND.

4 x [4-1/C 350 KCMIL TYPE W
PORTABLE POWER CABLE]
WITH #4/0 GND

4 x [4-1/C 350 KCMIL TYPE W
PORTABLE POWER CABLE]
WITH #4/0 GND

(T188-11)
DP-01

480/277V, 3Ø, 4 WIRE, 1600A, 65KAIC

CB01 400AT 600AF 3 POLE LSI
CB02 400AT 600AF 3 POLE LSI
CB03 400AT 600AF 3 POLE LSI
CB04 400AT 600AF 3 POLE LSI
CB05 400AT 600AF 3 POLE LSI

FUSES - 500AMP
BUSSMANN
TYPE: FWP-500A

SCR

SPARE

3 #4/0 TYPE W W/#2 EQ GND

1 2 3 4

(T188-X)
DP-02

480/277V, 3Ø, 4 WIRE, 1600A, 65KAIC

CB01 400AT 600AF 3 POLE LSI
CB02 400AT 600AF 3 POLE LSI
CB03 400AT 600AF 3 POLE LSI
CB04 400AT 600AF 3 POLE LSI
CB05 400AT 600AF 3 POLE LSI

FUSES - 500AMP
BUSSMANN
TYPE: FWP-500A

SCR

SPARE SPARE SPARE

3 #4/0 TYPE W W/#2 EQ GND

6 7

2 x (4-1/C 4/0 TYPE W OR DLO)
W/ 4/0 GND

3 x (4-1/C 4/0 TYPE W OR DLO)
W/ 4/0 GND

ATS-1
400A
(T105)

N
E
L

3 x (4-1/C 4/0 TYPE W OR DLO)
W/ 4/0 GND

GEN-1
(RENTAL)

300 KW

3 x (4-1/C 4/0 TYPE W OR DLO)
W/ 4/0 GND

DP-10
CALCULATED LOAD
438A @ 480V, 309 KVA

TO RESISTIVE HEATERS
TOTAL CALCULATED LOAD
940 AMP
783 KW

TO RESISTIVE HEATERS
TOTAL CALCULATED LOAD
940 AMP
783 KW

TERRATHERM
a Cascade Company
151 SUFFOLK LANE
GARNER, NC 27529
(919) 324-3000
WWW.TERRATHERM.COM

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

ELECTRICAL ONE-LINE

SCALE:	NTS
SHEET:	D
REV:	0
PROJECT NO.:	R23-104
SHEET:	1 OF 4
DRAWING:	E101

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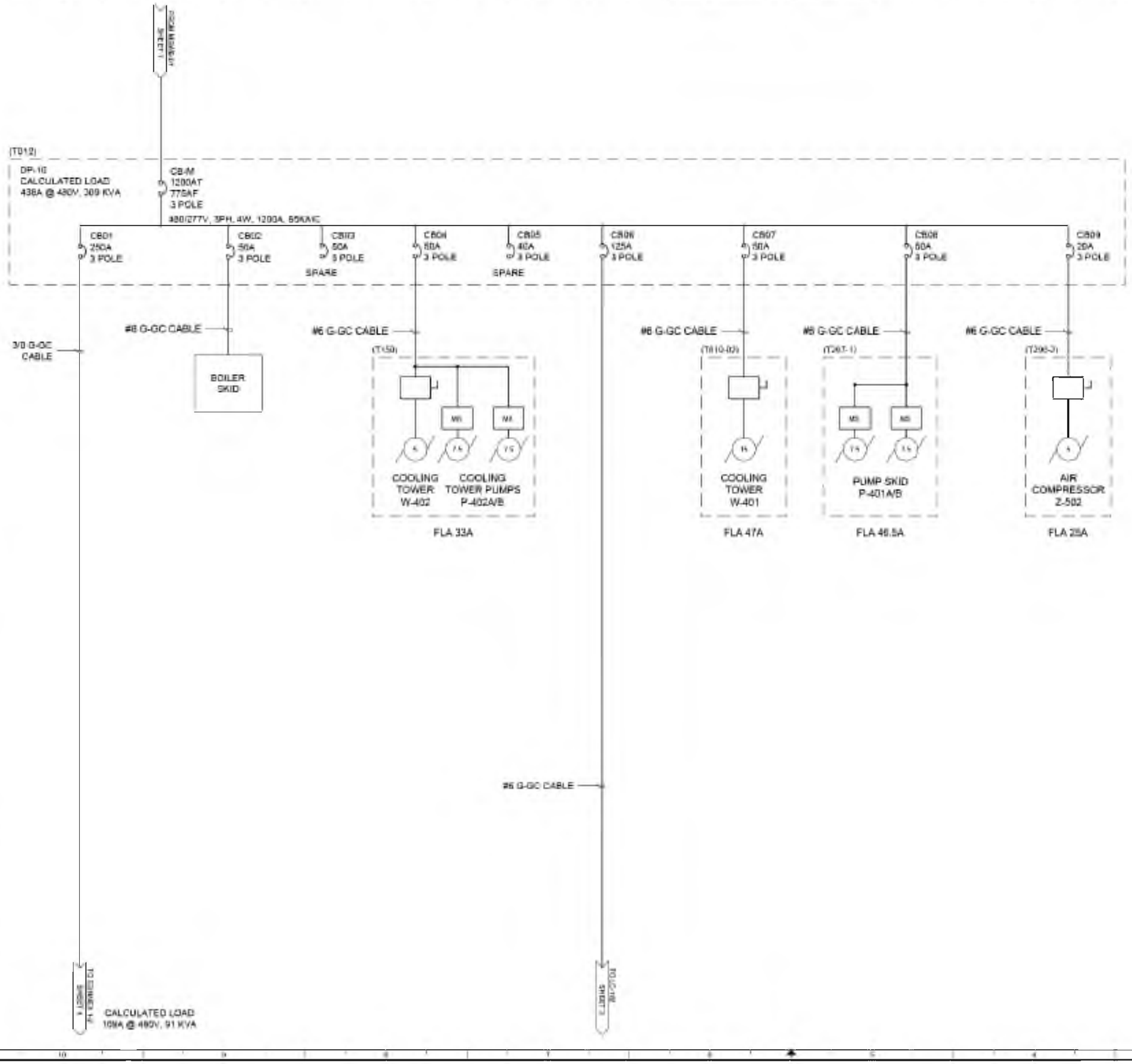
CTB FILE: TT-STANDARD.CTB

FINAL REPORT



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JACKSONVILLE, NORTH CAROLINA

ELECTRICAL ONE-LINE

NTS

D | 0

R23-104

E101

FINAL REPORT

#6 G-GC CABLE

(T350-01)

LC-102
CALCULATED LOAD
68A @ 480V, 56 KVA

125A HEAVY DUTY SAFETY SWITCH

112.5 KVA XFMR
480/240V
3 Ø

250A. MAIN
3 POLE

CB01,03	CB02,04	CB05	CB06	CB07	CB08	CB09	CB10	CB11	CB12	CB13	CB14	CB15	CB16	CB17	CB18	CB19	CB20	CB 21	CB 22	CB 23
70A 2 POLE	50A 2 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	20A 1 POLE	SPARE
#6 G-GC CABLE	#6 G-GC CABLE	#10/2 SOW W/GRND	#10/2 SOW W/GRND	#12/3 SOW CORD	#12/3 SOW CORD	#12/3 SOW CORD	#12/3 SOW CORD	#12/3 SOW CORD	#12/3 SOW CORD	#10/2 SOW W/GRND	#12/3 SOW CORD	#10/2 SOW W/GRND	#12/3 SOW CORD	#10/2 SOW W/GRND	#10/2 SOW W/GRND	#10/2 SOW W/GRND	#10/2 SOW W/GRND	#10/2 SOW W/GRND	#10/2 SOW W/GRND	#10/2 SOW W/GRND
OFFICE TRAILER	TOOL TRAILER	HEAT TRACE #1	HEAT TRACE #1	LIGHTS #1	LIGHTS #2	LIGHTS #3	LIGHTS #4	LIGHTS #5	LIGHTS #6	HEAT TRACE #1	E-STOP PANEL	HEAT TRACE #1	TMP SYSTEM	HEAT TRACE #1	HEAT TRACE #1	HEAT TRACE #1	HEAT TRACE #1	HEAT TRACE #1	HEAT TRACE #1	
FLA 50A	FLA 40A	FLA 5A	FLA 5A	FLA 5A	FLA 5A	FLA 5A	FLA 5A	FLA 5A	FLA 5A	FLA 5A	FLA 1A	FLA 5A	FLA 2A	FLA 5A	FLA 5A	FLA 5A	FLA 5A	FLA 5A	FLA 5A	

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IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

ELECTRICAL ONE-LINE

SCALE	NTS
DESIGN REV.	D
DRAWING REV.	0
PROJECT NO.	R23-104
SHEET	3 OF 4
DRAWING NO.	E101

FILE: J:\PROJECTS\SBA ENGINEERING
CTB FILE: TT-STANDARD.CTB

FINAL REPORT

(T303-02-02)

CONNEX 2
CALCULATED LOAD
109A @ 480V, 91 KVA

260A - HEAVY DUTY SAFETY SWITCH
225A FUSE
112 KVA XFMR
480 - 208/120V
3 Ø

CB MAIN
225A
3 POLE

CB01	CB02	CB03	CB04	CB05	CB06	CB07	CB08	CB09	CB10	CB11	CB12	CB13	CB14
30A 3 POLE	30A 3 POLE	30A 3 POLE	15A 1 POLE	15A 1 POLE	15A 1 POLE	15A 1 POLE	15A 1 POLE	15A 1 POLE	15A 1 POLE	15A 1 POLE	15A 1 POLE	15A 1 POLE	200A 3 POLE
#8 AWG	#10 AWG	#10 AWG	#12 AWG	#12 AWG	#12 AWG	SPARE	#12 AWG	#12 AWG	#12 AWG	#12 AWG	#12 AWG	#12 AWG	
AIR COMPRESSOR Z-501 FLA 24.2A	CLASS I DIV 2 HEATER FLA 17A	NON-CLASSIFIED HEATER FLA 17A	CLASS I DIV 2 VENT FANS FLA 4.0A	NON-CLASSIFIED LIGHTING FLA 1.5A	CLASS I DIV 2 LIGHTING FLA 1.5A		PROCESS CONTROL PANEL FLA 4.0A	OIL/WATER TRANSFER PUMPS P-203 A/B FLA 7.5A	GFCI FLA 1.5A	GFCI FLA 1.5A	GFCI FLA 1.5A	GFCI FLA 1.5A	

#3/0 S-GC CABLE

(T303-02-01)

CONNEX 1
CALCULATED LOAD
93A @ 208V, 33 KVA

CB MAIN
200A
3 POLE

CB01	CB02	CB03	CB04	CB05	CB06	CB07	CB08	CB09	CB10	CB11	CB12	CB13
15A 1 POLE	15A 1 POLE	15A 1 POLE	30A 3 POLE	30A 3 POLE	30A 2 POLE	15A 2 POLE	15A 1 POLE	15A 1 POLE	15A 1 POLE	15A 1 POLE	15A 1 POLE	15A 1 POLE
SPARE	SPARE	SPARE	#4 AWG	#4 AWG	#10 AWG	#12 AWG	#12 AWG	#12 AWG	#12 AWG	#12 AWG	#12 AWG	#12 AWG
			VFD PROCESS BLOWER B-101A FLA 46.2A	VFD PROCESS BLOWER B-101B FLA 46.2A	CLASS I DIV 2 HEATER FLA 17A	P-301A/B METERING PUMP FLA 1.5A	CLASS I DIV 2 VENT FANS FLA 6.0A	CLASS I DIV 2 LIGHTING FLA 2.5A	GFCI FLA 1.5A	GFCI FLA 1.5A	GFCI FLA 1.5A	GFCI FLA 1.5A

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IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

ELECTRICAL ONE-LINE

SCALE: NTS
DRAWING NO. D
REVISION NO. 0
PROJECT NO. R23-104
SHEET 4 OF 4
E101

NOTES:

1 THE BASE MAP WAS DRAWN FROM A PLAN ENTITLED, "BOUNDARY & TOPOGRAPHIC SURVEY" DATED DECEMBER 19, 2018, PREPARED BY DONALDSON GARRETT & ASSOCIATES, INC. OF CHARLOTTE, NC AND WAS RECEIVED ELECTRONICALLY ON APRIL 12, 2023 WITH AN ORIGINAL SCALE: 1" = 20'.

2 INSTALLATION OF HORIZONTAL VAPOR EXTRACTION WELLS (HV) PERFORMED BY EA ENGINEERING. ONLY HV-1 THROUGH HV-5 SHOWN FOR CLARITY.

3 INSTALLATION OF SHALLOW HORIZONTAL SOIL VAPOR EXTRACTION (HSVE) SYSTEM CONSISTENT WITH REMEDIAL DESIGN DRAWINGS WITH EXCEPTION OF FIELD MODIFICATION TO HSVE-1.

LEGEND:

- VERTICAL TCH HEATER (H) (28)
- VERTICAL TCH HEATER WITH EXTRACTION (H) (13)
- ANGLED TCH HEATER WITH EXTRACTION (H) (29)
- VERTICAL TCH HEATER WITH CO-LOCATED STEAM INJECTION WELL (H) (10)
- ANGLED TCH HEATER WITH CO-LOCATED STEAM INJECTION WELL (H) (2) (PART OF CLUSTER WELLS)
- MULTIPHASE EXTRACTION WELLS (M) (12)
- STEAM INJECTION WELL (SB) (2)
- ANGLED MULTI-PHASE EXTRACTION WELLS (M) (4)
- TEMPERATURE MONITORING POINT (T) (6)
- ANGLED TEMPERATURE MONITORING POINT (T) (2)
- HORIZONTAL VAPOR EXTRACTION WELLS (HV) (10)
- SUPPLEMENTAL ANGLED VEW (V) (3)
- HORIZONTAL SOIL VAPOR EXTRACTION WELLS (HSVE) (5)
- VAPOR PIPING
- PIPE STANDS (70)
- TARGET TREATMENT ZONE
- LIMITS OF VAPOR COVER

PRIVACY BARRICADE FENCE
HSVE-4
HDPE LINER (TYP. OF 5)
HSVE-3
HSVE-2
OFFICE TRAILER
EX'D OFFICE TRAILER
DP-02
DP-01
AIR ENTRY WELL
VAPOR/LIQUID TREATMENT EQUIPMENT
PROPANE GAS LINE
STEAM BOILER
GENERATOR
ATS
LIQUID - CONNEX
VAPOR - CONNEX
21k FRAC
TOOL
AIR COMPRESSOR C-102
DP-11
MSWB-01
TRANSFORMER
COOLING TOWERS
VGAC 151
VGAC 152
VGAC 153
KMnO4 154
MAKE-UP WATER LINE
ELECTRICAL EQUIPMENT
HSVE-5
HSVE-1: TWO VERTICAL PORTS INSTALLED BELOW SLAB
ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5
ZONE 6
ALLEY
GRAVEL DRIVE
OHP_T
15"RCP
GRAPHICAL SCALE
0 7.5 15 30 FT

FINAL REPORT

REV	DATE	DESCRIPTION					
1	9/4/2024	FINAL REPORT	CJ	KC	CM		
0	8/8/2023	RELEASED FOR CONSTRUCTION	CJ	KC	CJ		
A	5/12/2023	90% DESIGN - DRAFT	CJ	SG	CM		

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SEAL

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GARDNER, MA 01440
(978) 730-1200
WWW.CASCADE-ENV.COM

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

MECHANICAL LAYOUT

SCALE: AS SHOWN
SHEET SIZE: D
REV: 1
REFERENCE NO.: R23-104
SHEET: 1 OF 1
DWG NO.: M101

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GENERAL INSTRUMENTS

INSTRUMENTATION DEVICES AND FUNCTION SYMBOL

INSTRUMENT FOR SINGLE MEASURED VARIABLE AND ANY NUMBER OF FUNCTIONS. INSTRUMENT IS FIELD MOUNTED.

INSTRUMENT IS MOUNTED ON FRONT OF CENTRAL PANEL.

INSTRUMENT IS MOUNTED IN REAR OF CENTRAL PANEL.

INSTRUMENT IS MOUNTED ON FRONT OF LOCAL PANEL.

INSTRUMENT IS MOUNTED ON REAR OF LOCAL PANEL.

INSTRUMENT DISPLAY ON SHARED SCREEN (PRIMARY CHOICE or BASIC PROCESS CONTROL SYSTEM)
- LOCATED IN FRONT OR CENTRAL OF LOCAL PANEL OR CONSOLE.
- VISIBLE ON FRONT OF PANEL OR ON VIDEO DISPLAY.
- NORMALLY OPERATOR ACCESSIBLE AT PANEL FRONT OR CONSOLE.

INSTRUMENT DISPLAY ON SHARED SCREEN
- LOCATED IN REAR OF CENTRAL PANEL.
- LOCATED IN CABINET BEHIND PANEL.
- NOT VISIBLE ON FRONT OF PANEL OR ON VIDEO DISPLAY.
- NOT NORMALLY OPERATOR ACCESSIBLE AT PANEL OR CONSOLE.

INSTRUMENT DISPLAY ON SHARED SCREEN (ALTERNATE CHOICE or SAFETY INSTRUMENTED SYSTEM)
- LOCATED IN OR ON FRONT OF SECONDARY OR LOCAL PANEL.
- VISIBLE ON FRONT OF PANEL OR ON VIDEO DISPLAY.
- NORMALLY OPERATOR ACCESSIBLE AT PANEL FRONT OR CONSOLE.

COMPUTER FUNCTION

COMPUTER FUNCTION NOT NORMALLY ACCESSIBLE TO OPERATOR

INDICATOR/CONTROLLER/RECORDER OR ALARM POINT NORMALLY ACCESSIBLE TO OPERATOR ON HMI SCREEN

LOGIC AND SEQUENTIAL CONTROL SYMBOLS

COMPLEX INTERCONNECTION LOGIC (INTERLOCK) WITH DETAIL REFERENCE

PLC LOGIC CONTROLS, NOT NORMALLY ACCESSIBLE BY THE OPERATOR

PLC LOGIC CONTROLS, ACCESSIBLE BY THE OPERATOR

ALARM & CONTROL STATION DESIGNATIONS

(X) MEASURED INPUT TO CONTROLLER — (Y) OUTPUT FROM CONTROLLER

XAH — XAH / XAL / XP/dt — X(C) 101 — YAH / YAL / YP/dt — YAH

XAH YAH - HIGH ALARM
XAL YAL - LOW ALARM
dX/dt - VARIABLE RATE CHANGE (DERIVATIVE)

SHARED HOUSING

INSTRUMENTS SHARING A COMMON FIELD MOUNTED ENCLOSURE

INSTRUMENTS SHARING A COMMON LOCAL ENCLOSURE

ALTERNATIVE FOR SHARE DISPLAY OR CONTROL

SIGNALS AND LINES

- PROCESS VAPOR LINE
- PROCESS LIQUID LINE
- CHEMICAL LINE
- COOLING WATER LINE
- UTILITY LINE (WATER, FUEL, AIR, ETC.)
- PROCESS BY-PASS LINE
- COMPRESSED AIR OR PNEUMATIC SIGNAL
- PROCESS VENT LINE
- ELECTRICAL SIGNAL OR INTERNAL SYSTEM LINK
- INTERNAL SYSTEM LINK (SOFTWARE OR DATA LINK)
- CAPILLARY TUBING (FILLED SYSTEM)
- STEAM LINE
- ELECTRICAL LINE (POWER)
- HYDRAULIC LINE
- DIRECTION OF FLOW

TYPICAL CONNECTION ANY VARIABLE

- IN LINE DEVICE
- DIRECT CONNECTION W/ VALVE
- ELECTRICAL CONNECTION
- FILLED SYSTEM DIRECT CONNECTION
- DIRECT CONNECTED

SERIES IDENTIFIERS

000 - POWER/ELECTRIC
100 - PROCESS VAPORS
200 - PROCESS LIQUIDS (IMPACTED/BLOWDOWN)
300 - CHEMICAL, LNAPL, DNAPL
400 - COOLING/CHILLER WATER
500 - COMPRESSED AIR
600 - UTILITY WATER/SERVICE WATER
700 - FUEL LINE (GAS/OIL)
800 - AMBIENT AIR (COMBUSTION/DILUTION AIR)
900 - STEAM

SENSORS - FLOW (NOTE 2)

- FE - ORIFICE PLATE
- VENTURI TUBE OR FLOW NOZZLE
- PITOT TUBE
- AVERAGING PITOT TUBE
- SONIC FLOWMETER
- VARIABLE AREA FLOWMETER
- TURBINE
- MAGNETIC FLOW METER
- IN LINE INSTRUMENT *(NOTE 3)*
- POSITIVE DISPLACEMENT FLOWMETER
- VORTEX SENSOR
- ROTOMETER
- SINGLE ELEMENT SENSING PROBE
- DUAL ELEMENT SENSING PROBE
- NUTATING DISK

INSTRUMENTATION IDENTIFICATION LETTERS

FIRST LETTER		MIDDLE LETTER		LAST LETTER		DESIGNATORS	
A	ANALYTICAL	C	CONTROL	A	AUTO	COND.	THERMAL CONDUCTIVITY
DP	DIFFERENTIAL PRESSURE	I	INDICATOR	C	CONTROL	E	EMERGENCY STOP
F	FLOW	O	OFF	E	ELEMENT	FC	FAIL CLOSED
H	HAND	R	RELIEF/RECORD	G	GAUGE	FO	FAIL OPEN
I	CURRENT	S	SELECTOR	I	INDICATOR	H	HIGH
L	LEVEL			Q	QUANTITY	HH	HIGH HIGH
P	PRESSURE			S	SWITCH	HOA	HAND/OFF/AUTO
Q	QUANTITY			T	TRANSMITTER	L	LOW
T	TEMPERATURE			V	VALVE	LL	LOW LOW
V	VACUUM			W	WELL	LEL	LOWER EXPLOSIVE LIMIT
Y	EVENT, STATE					ORP	OXIDATION REDUCTION POTENTIAL
Z	POSITION					pH	ACIDITY
						SS	START/STOP

VALVE NOTATION

MOTOR ACTUATED VALVES (TYPICAL)

HV, M — NO — FC — NORMAL MODE (SEE NOTE BELOW) — FAILURE MODE - FO,FC,FL,FI

DIAPHRAGM ACTUATED VALVES (TYPICAL)

HV — NO — FC — NORMAL MODE — FAILURE MODE - FO,FC,FL,FI

- FAIL TO OPEN POSITION
- FAIL TO CLOSED POSITION
- FAIL TO LOCK IN LAST POSITION
- FAIL AT LAST POSITION
- FAIL AT LAST POSITION

NOTE:

FAIL POSITIONS ALL BODY STYLES
FO-INDICATES FAIL OPEN
FC-INDICATES FAIL CLOSED
FL-INDICATES FAIL LOCKED
FI-INDICATES FAIL INDETERMINATE

NORMAL MODE IDENTIFICATION (I.E. NO, NC.) SHOULD ONLY BE USED FOR ON-OFF TYPE VALVES WHOSE POSITION CANNOT BE SHOWN BY SHADING THE VALVE BODY.

- THREE WAY (NOTE 1) (ARROW SHOWS DE-ENERGIZED PATH)
- FOUR WAY (NOTE 1) (ARROW SHOWS DE-ENERGIZED PATH)

VALVE BODIES (NOTE 1)

OPEN		CLOSED
	GATE (GA)	
	GLOBE (GL)	
	BALL (BA)	
	PLUG (PL)	
	NEEDLE (NE)	
	BUTTERFLY (BF)	
	KNIFE GATE (KI)	
	DIAPHRAGM (DP)	
	FLAPPER VALVE (FL)	
	CHECK (CK)	

- ROTARY VALVE
- DRAIN (D)
- SAMPLE PORT (S)
- VENT (V)
- HAND OR HAND WHEEL
- SINGLE SOLENOID
- MANUAL RESET AFTER LATCH (OPTIONAL)
- A/S — PNEUMATIC DIAPHRAGM WITH POSITIONER

VALVE NOTATION (CONT'D)

- I/P — ELECTRIC ANALOG SIGNAL TO PNEUMATIC VALVE WITH /P CONVERTER AND NO POSITIONER
- M — ROTARY MOTOR (SHOWN TYPICALLY WITH ELECTRIC SIGNAL)
- SINGLE-ACTING
- DOUBLE-ACTING — PNEUMATIC CYLINDER (PNEUMATIC ANALOG INPUT)
- S — ELECTRICAL ACTIVATED SOLENOID
- ZSC, ZSO, FC, BF — SPRING RETURN W/ OPEN AND CLOSED POSITION FEEDBACK SWITCHES

SELF-ACTIVATED DEVICES - PRESSURE

- PCV — BACK PRESSURE REGULATOR SELF-CONTAINED
- PRV — PRESSURE RELIEF VALVE
- VRV — VACUUM RELIEF VALVE

SELF-ACTIVATED DEVICES- PRESSURE (CONT'D)

- PSV, A/S — PRESSURE/VACUUM RELIEF VALVE WITH FLAME ARRESTER.
- PSE — RUPTURE DISK OR SAFETY HEAD FOR PRESSURE RELIEF
- PSE — RUPTURE DISK OR SAFETY HEAD FOR VACUUM RELIEF
- PCV, H — SPEED CONTROL VALVE
- PCV — PRESSURE REDUCING REGULATOR WITH EXTERNAL PRESSURE TAP
- PCV — BACK PRESSURE REGULATOR WITH EXTERNAL PRESSURE TAP.
- DPCV — DIFFERENTIAL PRESSURE REDUCING REGULATOR WITH INTERNAL AND EXTERNAL PRESSURE TAPS
- PCV — PRESSURE REDUCING REGULATOR. SELF CONTAINED.
- FR — FILTER/PRESSURE REGULATOR

THIS INFORMATION IS BASED UPON ANSI/ISA-5.1-2009 INSTRUMENTATION SYMBOLS AND IDENTIFICATION AND ISA-5.3-1983 GRAPHIC SYMBOLS FOR DISTRIBUTED CONTROL/SHARED DISPLAY INSTRUMENTATION, LOGIC AND COMPUTER SYSTEM. BOTH PUBLICATIONS ARE STANDARDS OF ISA, INTERNATIONAL SOCIETY OF AUTOMATION.

NOTES:

1 VALVE-BODY PORTS THAT ARE CLOSED IN NORMAL OPERATION ARE BLACKENED. THE OPERATING CONDITION SHOWN FOR MAIN VALVE BODIES CORRESPONDS TO FULL-LOAD OR NORMAL OPERATION REGARDLESS OF THE TYPE OF ACTUATOR SOLENOID PILOT VALVE SHALL BE SHOWN IN THEIR DE-ENERGIZE POSITION.

2 IDENTIFY BOTH THE ACTUAL ELEMENT WHICH IS PLACED IN THE LINE AND THE INSTRUMENT UNLESS THE DEVICE IS ONE UNIT:

FE ORIFICE PLATE: FT TRANSMITTER
FT MAGNETIC FLOWMETER WITH INTEGRAL TRANSMITTER

3 THE TYPE OF FLOW INSTRUMENT IS USUALLY NAMED OUTSIDE THE INSTRUMENT CIRCLE E.G. MAGNETIC FLOWMETER, DISPLACEMENT METER, MASS FLOWMETER.

4 ALL VALVE, EQUIPMENT AND INSTRUMENT TAG NUMBERS ON A SKID ARE PRECEDED BY THE SKID NUMBER. FOR EXAMPLE PUMP P-201A ON T123 SKID HAS A COMPLETE TAG NUMBER OF T123-P201A. FOR CLARITY HOWEVER, THE COMPLETE TAG NUMBER IS NOT SHOWN WITHIN THE SKID. ANOTHER SKID CAN HAVE THE SAME PUMP TAG P-201A AND THE TAG DIFFERENTIATOR IS THE COMPLETE TAG NUMBER TXXX-P-201A.

FINAL REPORT

REV	DATE	BY	CK	AP	DESCRIPTION
0	9/4/2024	BM	KC	CB	FINAL REPORT
A	5/12/2023	BM	KC	CB	90% DESIGN - DRAFT
REV:	DATE:	DRN:	CK:	AP:	DESCRIPTION:

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF TERRATHERM

TERRATHERM
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IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

PROCESS LEGEND

SCALE: NTS
SHEET SIZE: D
REV: 0
REFERENCE NO.: R23-104
SHEET: 1 OF 3
DWG NO.: P100

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GENERAL EQUIPMENT

AIR COMPRESSOR

AIR STRIPPER

BLOWER, COMBUSTION

BLOWER, ROTARY LOBE, VAPOR

CARBON VESSEL, LIQUID/VAPOR PHASE

CENTRIFUGAL FAN

FILTER, CARTRIDGE

FILTER, BAG/SAND

FILTER REGULATOR

HEAT EXCHANGER

PLATE & FRAME HEAT EXCHANGER

HEAT RECOVERY HEAT EXCHANGER

PUMP, GEAR

PUMP, DOUBLE DIAPHRAGM

PRESSURE VESSEL

TRAY, DISC & DONUT, CASCADE

PUMP, SUMP WITH MECHANICAL FLOAT SWITCH

MECHANICAL FLOAT

PUMP, SUMP

PUMP, SUBMERSIBLE

PUMP, VERTICAL

PUMP, POSITIVE DISPLACEMENT

PUMP, CENTRIFUGAL

GAS FIRED ACCELERATOR

OIL/WATER SEPARATOR

QUENCH/SCRUBBER

HORIZONTAL MOISTURE SEPARATOR

VERTICAL MOISTURE SEPARATOR W/ DEMISTER PAD

TANK WITH SPILL TRAY

55 GAL. DRUM

TANK, CONE BOTTOM

THERMAL OXIDIZER

FLAME ARRESTOR

REVERSE OSMOSIS

ROTARY, CENTRIFUGAL & WATER SEALED COMPRESSORS & VACUUM PUMPS

TURBINES & EXPANDERS

CLARIFIERS, THICKENERS

BATCH CENTRIFUGES

CONTINUOUS CENTRIFUGES

SCREW CONVEYOR

STATIC MIXER

STEAM BOILER

COOLING TOWER

WATER SOFTENER WITH BRINE STORAGE

GENERAL SYMBOLS

AIR TRAP

BLIND FLANGED LINE OR VALVE

CAMLOCK QUICK CONNECT/DISCONNECT COUPLINGS W/FLEXIBLE HOSE

DIRECTION OF FLOW

DRAIN

EXPANSION JOINT

FLANGED JOINT

FLEXIBLE CONNECTION

HEAT TRACING

HOSE CONNECTION

INSULATED LINE

AS
CWS
CWR
LINE BREAK IDENTIFICATION

LINE FILTER

PLUG

PUSH TO CONNECT FITTING

REDUCER, CONCENTRIC

REDUCER, ECCENTRIC

SCREWED CAP

SIGHT GLASS

SPRAY NOZZLE

STRAINER (STR-1)

STRAINER, DUPLEX (STR-2)

STRAINER, WYE (STR)

SYPHON BREAK

TRAP

UNION JOINT

VENT, ATMOSPHERIC

VENT, CONSERVATION

VENT FLAME ARRESTOR

VENTURI (EDUCTOR)

WELDED CAP

LINE IDENTIFICATION

8"-CS40-AS-CWR

- 8" — NOMINAL PIPE DIAMETER
- CS40 — PIPE SPECIFICATIONS
- AS — PIPE INSULATION
- CWR — FLUID TYPE

LINE SERVICE DESIGNATION

PIPE SPECIFICATIONS

CPVC	CHLORINATED POLYVINYL CHLORIDE
PVC	RIGID POLYVINYL CHLORIDE
CS	CARBON STEEL
FRP	FIBERGLASS-REINFORCED PLASTIC
TT	TEFLON TUBING
CU	COPPER TUBING
SS	STAINLESS STEEL
PH	PETROLEUM HOSE
WH	WATER HOSE
XLPE	XLPE HOSE
TLH	TEFLON-LINED HOSE
RFH-W H	RFH-W HOSE

PIPE INSULATION TYPE

AS	ANTI-SWEAT
AU	ACOUSTIC
IC	COLD
IH	HOT
PP	PERSONAL PROTECTION
N	NONE

FLUID TYPE

AA	AMBIENT AIR	ST	STEAM
AS	COMPRESSED AIR	VG	VENT GAS (OFFGAS)
CL	CHEMICAL LIQUID	PV	PROCESS VAPOR
CW	COOLING WATER	UW	UTILITY WATER
IA	INSTRUMENT AIR	CWR	COLD WATER RETURN
NG	NATURAL GAS	CWS	COLD WATER SUPPLY
LPG	LIQUID PROPANE GAS	LNA	LNAPL (LIGHT NON-AQEOUS PHASE LIQUID
PL	PROCESS LIQUID	DNA	DNAPL (DENSE NON-AQEOUS PHASE LIQUID
PW	POTABLE WATER		
SL	SLUDGE		

EQUIPMENT NUMBER IDENTIFICATION

T - 101 A

- T — EQUIPMENT LETTER(S) (SEE BELOW)
- 101 — SEQUENCE NUMBER
- A — PARALLEL/REDUNDANT (A/B) OR SERIES (1/2/3)

A - QUENCH AND SCRUBBER	WX- WEIRS
AS - AIR STRIPPER	X - VENT STACKS
B - BLOWER	Y - CHILLER
BN - BURNER NOZZLE	Z - MISCELLANEOUS EQUIPMENT (E.G. COMPESSOR, WATER SOFTENER)
CP - CONTROL PANEL	ZX - PIPING EXPANSION JOINT
D - DRIVE	
E - HEAT EXCHANGER	
F - FIRED EQUIPMENT (E.G. TOX, BOILER)	
FX - FILTER (E.G. BAG, SAND)	
H - DUCT HEATER	
LGAC - LIQUID GRANULAR ACTIVATED CARBON	
M - MIXER, BLENDER, AGITATOR	
OC - ORGANO CLAY	
OWS - OIL WATER SEPARATOR	
P - PUMP	
PX - VENDOR PACKAGE SYSTEM	
S - MOISTURE SEPARATOR	
T - TANK	
U - LUBRICATION PACKAGE	
V - VESSEL	
VGAC - VAPOR GRANULAR ACTIVATED CARBON	
W - COOLING TOWER	

MISCELLANEOUS

ALARM HORN

1ST DWG.# — LINE BREAK OR RESUMPTION POINT

BAT. LIM. — BATTERY LIMITS

FILLED LINE

STEAM TRAP

PUMP W/LIQUID SEAL FLUSH

PUMP W/INTERNAL SAFETY RELIEF

SPECIALTY ITEM

SPRAY NOZZLE OR SPARGER

FINAL REPORT

NO.	DESCRIPTION	DATE	BY
0	FINAL REPORT	9/4/2024	DH
A	90% DESIGN - DRAFT	8/15/2024	CB

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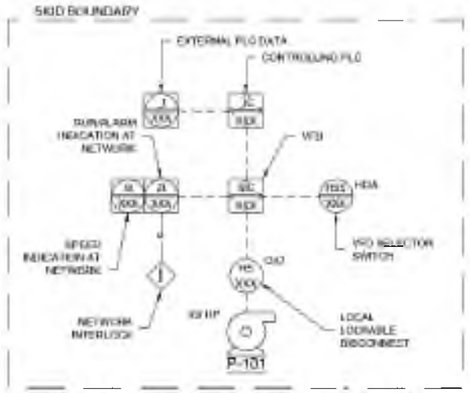
IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

PROCESS LEGEND

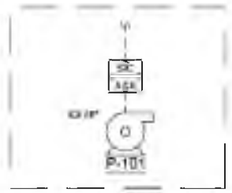
SCALE: NTS
SIZE: D
REV: 0
REFERENCE NO.: R23-104
SHEET: 2 OF 3
DWG NO.: P100

FILE: J:\PROJECTS\SEA ENGINEERING - VARIOUS\SEA ENGINEERING - JACKSONVILLE\CAD\P100.DWG
CTB FILE: TT-STANDARD.CTB



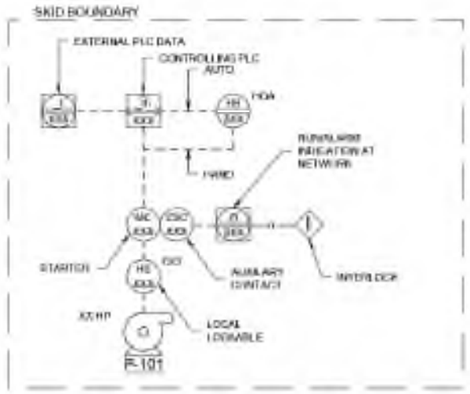
1 TYPICAL VARIABLE MOTOR SPEED (VFD) CONTROL LOOP DETAIL

NOT TO SCALE



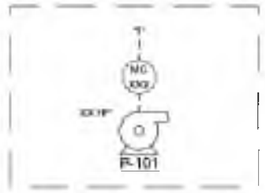
1 TYPICAL VARIABLE MOTOR SPEED (VFD) CONTROL LOOP AS REPRESENTED IN PIPING AND INSTRUMENTATION DIAGRAM (P&ID)

NOT TO SCALE



2 TYPICAL FIXED SPEED MOTOR CONTROL LOOP DETAIL

NOT TO SCALE



2 TYPICAL FIXED SPEED MOTOR CONTROL LOOP AS REPRESENTED IN P&ID

NOT TO SCALE

FINAL REPORT

TERRATHERM
a Cascade Company

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

PROCESS LEGEND

SCALE: NTS

D | 0

R23-104

SHEET 3 OF 3

P100

FINAL REPORT

WATER SUPPLY B/L

EA SCOPE

WATER SOFTENER BOOSTER PUMPS P-651A/B

WATER SOFTENER Z-651A/B

STEAM BOILER V-951

NATURAL GAS B/L

COOLING TOWER PUMPS

COOLING TOWERS

PROCESS VAPOR DISCHARGE TO ATMOSPHERE

VAPOR HEAT EXCHANGER

MOISTURE SEPARATOR

PROCESS BLOWERS

VAPOR CARBON VESSEL

VAPOR CARBON VESSEL

VAPOR CARBON VESSEL

PERMANGANATE MEDIA VESSEL

BLOWDOWN

CONDENSATE KNOCKOUT TANK TRANSFER PUMPS

CONDENSATE KNOCKOUT TANK

MOISTURE SEPARATOR TRANSFER PUMPS

DRIP LEG

DRIP LEG PUMP

TIER-ONE SYSTEM

WELLFIELD TRANSFER PUMPS

BAG FILTERS

LIQUID HEAT EXCHANGER

LNAPL DRUM

OIL WATER SEPARATOR

OIL/WATER SEPARATOR TRANSFER PUMPS

BAG FILTERS

DNAPL TRANSFER PUMPS

DNAPL DRUM

LIQUID CARBON VESSEL

LIQUID CARBON VESSEL

TREATED WATER HOLDING TANK

TREATED LIQUID TO DISCHARGE B/L

HEATER W/ CO-LOCATED STEAM INJECTION WELLS (14 TOTAL)

HEATER W/ CO-LOCATED EXTRACTION WELLS (42 TOTAL)

MULTIPHASE EXTRACTION WELLS (16 TOTAL)

HEATER BORINGS (28 TOTAL)

HORIZONTAL VAPOR EXTRACTION WELLS (10 TOTAL)

HORIZONTAL SOIL VAPOR EXTRACTION WELLS (5 TOTAL)

NOTE:

1. 6 ADDITIONAL HEATER CLUSTERS NOT SHOWN, INCLUDES STEAM INJECTION WELLS AND VAPOR EXTRACTION WELLS. (5 HEATER PER CLUSTER, 30 TOTAL HEATERS)

NO.	DESCRIPTION	DATE	BY
-	FINAL REPORT	04/2020	SM
-	90% DESIGN - DRAFT	01/2019	MC

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101 SUFFOLK LANE
GARDNER, MA 01440

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

PROCESS FLOW DIAGRAM WITH MASS AND ENERGY BALANCE

SCALE: NTS
D
REV: 0
PROJECT NO.: R23-104
1 OF 3
P101

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STREAM NUMBER:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
STREAM ID:		DRIP LEG	VAPOR	SEPARATOR	HX	HX	COOLING	COOLING	SEPARATOR	SEPARATOR	VACUUM	STACK	MPE	HX	HX
Temperature (°F)	185	185	185	185	185	104	88	98	104	104	139	112	185	148	110
PressureVap (in wc ga)	-20		-26		-31	-34			-37		26	1			
PressureVap (in wc abs)	387				375	373			370		433	408			
PressureLiq (psig)															
Relative Humidity															
Vapor															
Non-condensable															
Molar (lbmol/hr)	93		93		93	93			93		93	93			
Mass (lb/hr)	2,707		2,707		2,707	2,707			2,707		2,707	2,707			
SCFM (1 atm, 68°F)	600		600		600	500			600		600	500			
SCFM N2	474		474		474	474			474		474	474			
SCFM O2	126		126		126	126			126		126	126			
ACFM	771		783		793	699			705		641	649			
Volume %	56%		56%		56%	92%			92%		92%	92%			
Enthalpy (BTU/hr)	418,633		418,633		418,633	365,705			365,705		368,553	370,928			
Water															
Molar (lbmol/hr)	75		75		75	8			8		8	8			
Mass (lb/hr)	1,344		1,344		1,344	145			145		145	145			
SCFM (1 atm, 68°F)	479		479		479	52			52		52	52			
ACFM	615		625		633	60			61		55	56			
Volume %	44%		44%		44%	8%			8%		8%	8%			
Enthalpy (BTU/hr)	1,533,119		1,533,119		1,533,119	161,054			161,054		163,193	161,549			
COC															
Molar (lbmol/hr)	0.01		0.01		0.01	0.01			0.01		0.01	0.00			
Mass (lb/hr)	2.11		2.11		2.11	2.05			2.05		2.05	0.02			
SCFM (1 atm, 68°F)	0.08		0.08		0.08	0.08			0.08		0.08	0.00			
ACFM	0.11		0.11		0.11	0.09			0.09		0.08	0.00			
Volume %	0.01%		0.01%		0.01%	0.01%			0.01%		0.01%	0.00%			
Natural Gas															
SCFH (1 atm, 68°F)															
Total Vapor															
Molar (lbmol/hr)	168		168		168	102			102		102	102			
Mass (lb/hr)	4,053		4,053		4,053	2,854			2,854		2,854	2,852			
SCFM (1 atm, 68°F)	1,079		1,079		1,079	652			652		652	652			
ACFM	1,386		1,408		1,427	760			766		696	705			
Enthalpy (BTU/hr)	1,951,752		1,951,752		1,951,752	526,759	0		526,759		551,746	532,477			
dH (BTU/hr)															
Liquid															
Water															
Molar (lbmol/hr)		0		0		67	7,436	7,436		67			264	330	330
Mass (lb/hr)		0		0		1,199	133,994	133,994		1,199			4,754	5,952	5,952
Volume (GPM)		-		-		2.40	267.77	267.77		2.40			9.50	11.90	11.90
Enthalpy (BTU/hr)		0		0		86,394	7,515,716	8,854,314		86,394			728,092	690,904	464,704
dH (BTU/hr)		0		0		86,394	7,515,716	8,854,314		86,394			728,092	690,904	464,704
COC															
Mass (lb/hr)															
Concentration (mg/L)															
Total Liquid (lb/hr)		0		0		1,199	133,994	133,994		1,199			4,754	5,953	5,953

FINAL REPORT

0	9/4/2024	FINAL REPORT		
A	5/1/2024	90% DESIGN - DRAFT		
		DESCRIPTION		

SEAL

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IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

PROCESS FLOW DIAGRAM WITH
MASS AND ENERGY BALANCE

SCALE: NTS
SHEET SIZE: D
REV: 0
REFERENCE NO.: R23-104
SHEET: 2 OF 3
DWG NO.: P101

PLOT DATE: 9/4/2024
FILE: J:\PROJECTS\SA ENGINEERING - VARIOUS\SA ENGINEERING - JACKSONVILLE, NC\01-DESIGN\001 DRAWINGS\000-SIGNED OFF DWGS\AS-BUILT\P101-PFD.DWG
CTB FILE: TT-STANDARD.CTB

STREAM NUMBER:	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
STREAM ID:	COOLING	COOLING	LIQUID	DISCHARGE	DISCHARGE	TREATED	TOTAL	TOTAL	COOLING	MAKE UP	TOTAL	MAKE UP	STEAM	NATURAL	BOILER	COMBINED
Temperature (°F)	88	98	110	110	110	110	88	98	88	60	60	60	298	68	70	105
PressureVap (in wc ga)																
PressureVap (in wc abs)																
PressureLiq (psig)		35	42			18			40	60	60	60	50	5	60	10
Relative Humidity																
Vapor																
Non-condensable																
Molar (lbmol/hr)																
Mass (lb/hr)																
SCFM (1 atm, 68°F)																
SCFM N2																
SCFM O2																
ACFM																
Volume %																
Enthalpy (BTU/hr)																
Water																
Molar (lbmol/hr)													10,800			
Mass (lb/hr)													600			
SCFM (1 atm, 68°F)													69,354			
ACFM													99,584			
Volume %													100%			
Enthalpy (BTU/hr)																
COC																
Molar (lbmol/hr)																
Mass (lb/hr)																
SCFM (1 atm, 68°F)																
ACFM																
Volume %																
Natural Gas																
SCFH (1 atm, 68°F)																
Total Vapor														829		
Molar (lbmol/hr)													10,800	2		
Mass (lb/hr)													600	34		
SCFM (1 atm, 68°F)													69,354	14		
ACFM													99,584	14		
Enthalpy (BTU/hr)																
dH (BTU/hr)																
Liquid																
Water																
Molar (lbmol/hr)	1,983	1,983	330			330	9,419	9,419	22	203	270	67			33	386
Mass (lb/hr)	35,732	35,732	5,952			5,952	169,726	169,726	395	3,660	4,860	1,200			600	6,947
Volume (GPM)	71.41	71.41	11.90			11.90	339.18	339.18	0.79	7.31	9.71	2.40			1.20	13.88
Enthalpy (BTU/hr)	2,004,235	2,361,203	464,704			464,704	9,519,951	11,215,517	22,129	102,829	136,557	33,729			22,879	507,680
dH (BTU/hr)	2,004,235	356,968						1,695,566								
COC																
Mass (lb/hr)			0	0	0	0										0
Concentration (mg/L)			14			0										0
Total Liquid (lb/hr)	35,732															

FINAL REPORT

TERRATHERM
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IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

PROCESS FLOW DIAGRAM WITH MASS AND ENERGY BALANCE

SCALE: NTS
SIZE: D REV: 0
PROJECT NO.: R23-104
SHEET: 3 OF 3
DRAWING: P101

PLOT DATE: 9/4/2024

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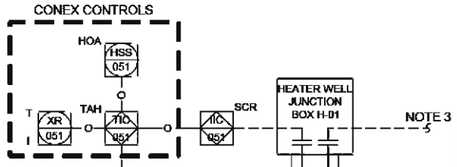
AIR SUPPLY FROM AIR COMPRESSOR (Z-502A/B) — SHEET 7 — 1"-CS40-N-AS — AS

CONEX CONTROLS

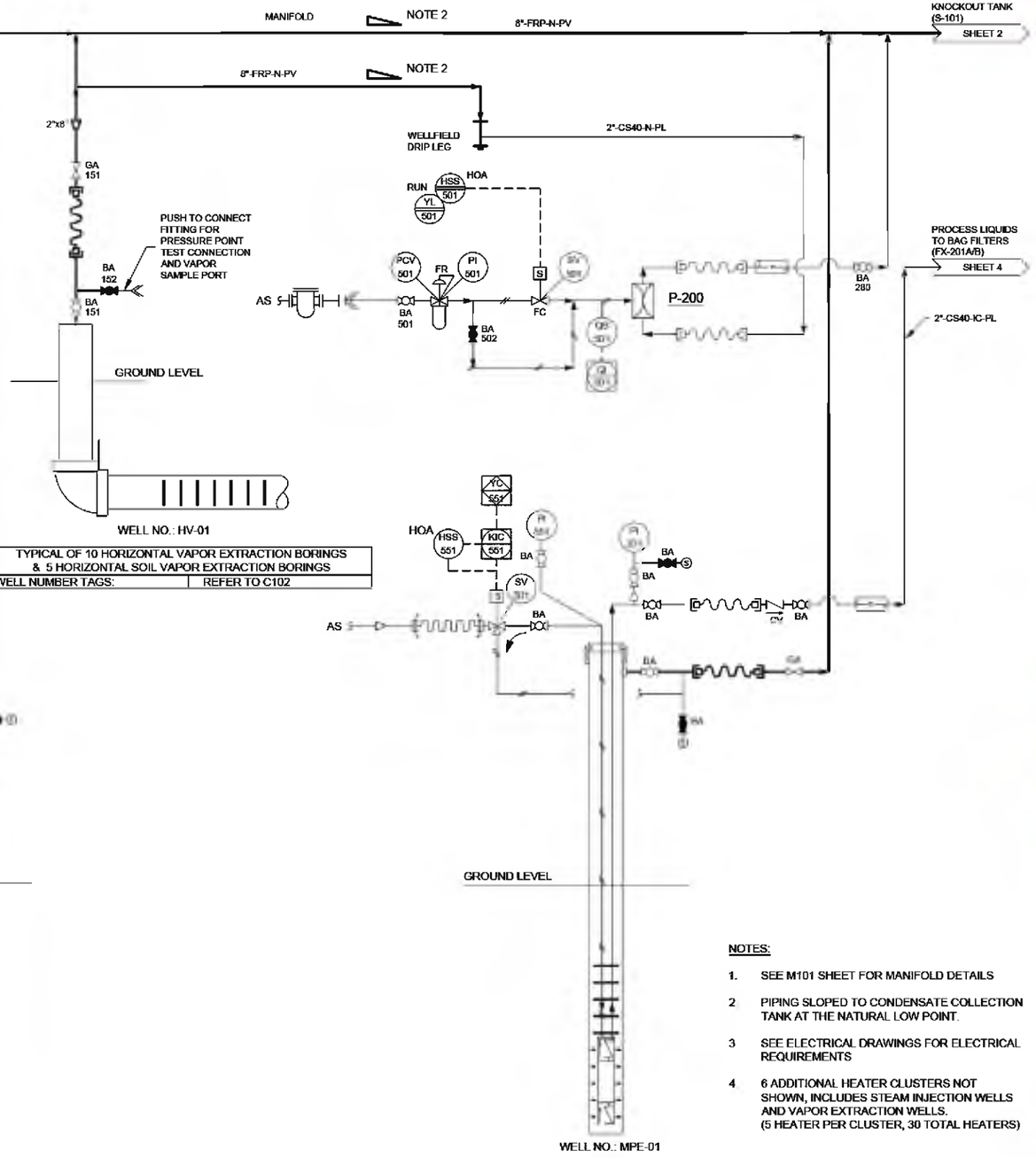


WELL NO.: TMP-01

TYPICAL OF 8 TEMPERATURE MONITORING POINTS	
WELL NUMBER TAGS:	REFER TO C102
REMOTE TERMINAL UNIT TAGS:	REFER TO C102
NOTE: TEs TO BE LOCATED EVERY 3 FEET FROM 2ft bgs TO 26ft bgs.	

WELL NO.: H-01

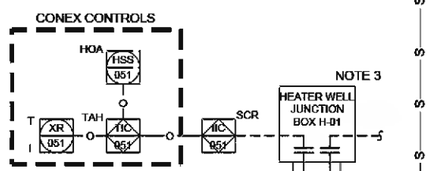
TYPICAL OF 28 HEATER BORINGS	
WELL NUMBER TAGS:	REFER TO C102
NOTE: TEMPERATURE ELEMENT (TE) IS INSTALLED ON ONE HEATER PER CIRCUIT LEG. SEE NOTE 5	



TYPICAL OF 10 HORIZONTAL VAPOR EXTRACTION BORINGS & 5 HORIZONTAL SOIL VAPOR EXTRACTION BORINGS	
WELL NUMBER TAGS:	REFER TO C102

FROM STEAM BOILER (V-951) — SHEET 7 — S

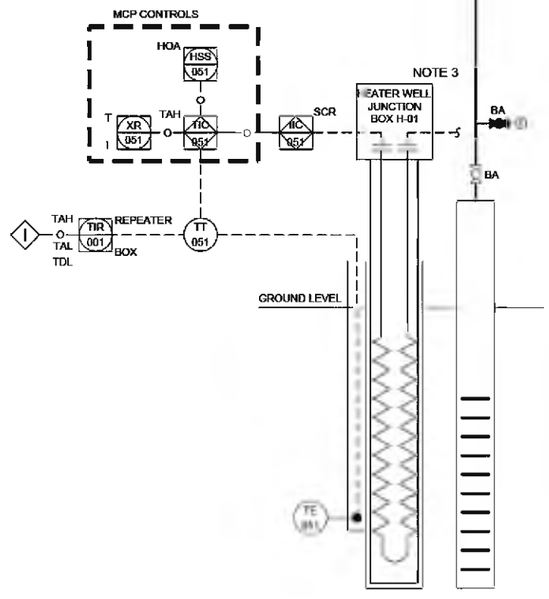
CONEX CONTROLS



WELL NO.: HS-01

TYPICAL OF 12 HEATERS WITH CO-LOCATED STEAM INJECTION WELLS (WITH 2 ADDITIONAL SOLO STEAM INJECTION WELLS)	
WELL NUMBER TAGS:	REFER TO C102
NOTE: DETAILS ON STEAM CONNECTIONS TO HEADER PIPING PROVIDED IN CIVIL AND MECHANICAL	

MCP CONTROLS



WELL NO.: H-01

TYPICAL OF 42 VERTICAL AND ANGLED HEATER BORINGS WITH CO-LOCATED VAPOR EXTRACTION WELLS	
HEATER BORING NUMBER TAGS:	REFER TO C102
CO-LOCATED VAPOR EXTRACTION WELL NUMBER TAGS:	REFER TO C102

NOTES:
1 TEMPERATURE ELEMENT (TE) IS INSTALLED ON ONE HEATER PER CIRCUIT LEG.
2 CO-LOCATED VAPOR EXTRACTION WELL NUMBERS CORRESPOND WITH HEATER WELL NUMBERS.

TYPICAL OF 16 MULTIPHASE EXTRACTION WELLS	
HEATER BORING NUMBER TAGS:	REFER TO C102
MULTIPHASE EXTRACTION WELL NUMBER TAGS:	REFER TO C102

NOTES:

1. SEE M101 SHEET FOR MANIFOLD DETAILS
2. PIPING SLOPED TO CONDENSATE COLLECTION TANK AT THE NATURAL LOW POINT.
3. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL REQUIREMENTS
4. 6 ADDITIONAL HEATER CLUSTERS NOT SHOWN, INCLUDES STEAM INJECTION WELLS AND VAPOR EXTRACTION WELLS. (5 HEATER PER CLUSTER, 30 TOTAL HEATERS)

P-200
DRIP LEG PUMP
AIR OPERATED DOUBLE DIAPHRAGM PUMP
52 GPM @ 120 PSIG

FINAL REPORT

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GARDNER, MA 01440

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

PIPING & INSTRUMENTATION DIAGRAM

AS SHOWN
SIZE D REV 0
PROJECT NO.: R23-104
1 OF 7
P102

COOLING WATER SUPPLY FROM COOLING TOWER (W-401)
SHEET 6
CK 451
6"-PVC80-IC-CWS
CWS

6"-PVC80-IC-CWR
CWR
COOLING WATER RETURN TO COOLING TOWER (W-401)
SHEET 6

AIR SUPPLY FROM CONNEX 2 (Z-501)
SHEET 5
1"-CS40-N-AS
AS

SKID 1
(T303-02-01)

CONEX 1 LIMITS
CONTINUED ON SHEET 3

CWR
CWS
6"-CS80-IC-CWR
6"-CS80-IC-CWS
FAL FI 401
FT 401
FE 401
TE 401
TI 401
PI 402
BA 402
PI 401
BA 401
BF 404
6"x4"
BA 105
BF 401
E-101A
BA 204
6"x6"
BF 104
TE 102
TT 102
TI 102 TAH TAL
TE 101
TI 101
PI 101
BA 107
PROCESS VAPORS TO MOISTURE SEPARATOR (S-102)
SHEET 3
6"-FRP-N-PV

FI 101 FAH FAL
LT 101
PC 101
FI 102
@ 100" WC
BA 104
6"-FRP-N-PV
BF 102
6"x8"
LAHH 201
LSH 201
LSL 201
LSLL 201
LALL 201
LI 201
PIT 101
BA 102
TE 101
TI 101
PI 101
BA 103
8"-FRP-N-PV
BF 101
S-101
BA 201
BA 202
BA 203
6"-FRP-N-PV
BF 403
6"x4"
BF 402
BA 106
E-101B
BA 205
BF 103
BF 105
BF 106
SPRAY NOZZLE
MODE
HSS 201
LIC 201
LCR 201
BA 234
BA 235
1"-CS40-N-PL
½"-CS40-N-CL
½"-CS40-N-PL
BA 206

RUN
YL 501
HSS 501
JOA
SV 501
PCV 501
S
FC
YI 501
¾"x¾"
½"x¾"
½"x1"
P-201A
QI 501
QS 501
BA 207
BA 208
CK 201
TI 201
PI 201
BA 209
BA 210
BA 236
½"x1"
AS
1"x½"
½"x¾"
BA 503
RUN
YL 502
HSS 502
JOA
SV 502
PCV 502
S
FC
¾"x¾"
½"x¾"
P-201B
QI 502
QS 502
BA 211
BA 212
CK 202
TI 202
PI 202
BA 213
BA 214
BA 236
½"-CS40-N-PL
GIT 201
PH
BA 217
BA 218
BA 216
BA 215
BA 219
GAH
GIC 201
GAL
RUN
HSS 201
JOA
YL 201
A,B
GY 301
BA 302
CK 301
P-301A
BA 303
PRESSURE RELIEF RETURN TO TANK
LSL 301
LAL 301
CK 303
T-301
GY 301
BA 304
CK 302
P-301B
BA 302
ZAO
ZAC
HOA
HSS 503
LC 503
SV 503
PI 503
SV-503
BA 505
BA 220
1"-CS40-N-PL
PROCESS LIQUIDS TO BAG FILTERS (FX-201A/B)
SHEET 3

S-101
CONDENSATE KNOCKOUT TANK
350 GAL
FIBERGLASS
740 SCFM 951 ACFM @ -24 IWC

P-201A/B
CONDENSATE KNOCKOUT TANK TRANSFER PUMPS
DOUBLE DIAPHRAGM
120 PSIG MAX 14 GPM
MAX 0.5 GPM @ 15 PSIG

E-101A/B
VAPOR HEAT EXCHANGERS
SURFACE AREA 255 FT2, SHELL AND TUBE, CS & GRAPHITE
DESIGN TERMPERATURE MAX 340° F
DESIGN PRESSURE MAX 75 PSIG
SHELL 75 FV TUBE DUTY 1.6 MBTU/HR
740 SCFM
961 ACFM @ -27 IWC

P-301A/B
CAUSTIC METERING PUMPS
FIXED / PROPORTIONAL
120 VAC, 1 PHASE
2.5 GPH MAX
150 PSIG MAX

T-301
CAUSTIC TANK
POLYETHYLENE
15 GAL

FINAL REPORT

REV	DATE	DESCRIPTION
0	10/28/2013	FINAL REPORT
1	9/4/2013	90% DESIGN - DRAFT

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JACKSONVILLE, NORTH CAROLINA

PIPING & INSTRUMENTATION DIAGRAM

AS SHOWN
SIZE D
REV 0
JOB NO.: R23-104
2 OF 7
P102

FILE: I:\PROJECTS\SEA ENGINEERING\...\P102.DWG
CTB FILE: TT-STANDARD.CTB

FINAL REPORT

AIR SUPPLY FROM CONNEX 2 (Z-501) SHEET 5 — 1"-CS40-N-AS — AS

SKID 1 (T303-02-01) — CONEX 1 LIMITS — CONTINUED ON SHEET 2

CONNECTION OUTSIDE OF CONEX

FILTER

FIRE: AS 151, AA 151

TAH 150, TAL 150, TT 150, TE 150 — INTERIOR TEMP MONITORING

TS 151, TSL 151 — AMBIENT AIR TEMP

LEL: AE 151, AIT 151, AI 151 HH H

ZI 155A, HS — E-STOP

2"-FRP-N-VG

VENT FROM OIL WATER SEPARATOR (OWS-201) SHEET 4

4"-CS40-AA

GA 801

SEE TYP. VFD ON P100-LEGEND SHEET 3

DPI 101, VRV 103, @ 100" WC VAC, TI 103, PI 104, BA 109, SIC 105A, PI 105, BA 111, PRV 101, @ 100" WC VAC, CK 101, BF 108

BF 107, FILTER, BA 108, BA 110, B-101A

6"-FRP-N-PV

VRV 102, @ 100" WC, 6"-FRP-N-PV, 106

PROCESS VAPORS FROM VAPOR HEAT EXCHANGERS (E-101A/B) SHEET 2 — 6"-FRP-N-PV — 6"x2" — LAHH 202

LSHH 202, LSH 202, LI 202, LSL 202, LSLL 202, S-102, BA 221, BA 222, BA 223, LCR 202, LALL 202

SEE TYP. VFD ON P100-LEGEND SHEET 3

DPI 102, VRV 104, @ 100" WC VAC, TI 104, PI 106, BA 113, SIC 105B, PI 107, BA 115, PRV 102, @ 100" WC VAC, CK 102, BF 110, 4"x6"

BF 109, FILTER, BA 112, BA 114, B-101B

4"-FRP-N-PV — 6"x4" — 3"-CS40-N-PV — FI 102, FAH, FAL

VENT OUTSIDE OF CONEX

TE 103, BA 117, PIT 102, BA 116, FIT 102, FE 102

6"-FRP-N-PV — PROCESS VAPORS TO VAPOR CARBON VESSELS (VGAC-151/152/153) SHEET 6

1"-CS40-N-PL — BA 224

RUN: YL 504, HSS 504, JOA, YI 504, SV 504, PCV 504, S, FC, BA 507, ½"x¾", ¾"x¾", ¾"x½", ½"x½", ½"x¾"

P-202A — ½"x1" — BA 225 — ½"x1" — BA 226

QI 504, QS 503

TI 203, PI 203, BA 228, CK 203, BA 227, BA 238, 1"-CS40-N-PL

AS — 1"x½" — BA 510 — VAPOR ENCLOSURE TOOL AIR CONNECTION

RUN: YL 505, HSS 505, JOA, YI 505, SV 505, PCV 505, S, FC, BA 508, ½"x¾", ¾"x¾", ¾"x½", ½"x½", ½"x¾"

P-202B — ½"x1" — BA 229 — ½"x1" — BA 230

QI 505, QS 504

TI 204, PI 204, BA 232, CK 204, BA 231, BA 239, 1"-CS40-N-PL

PROCESS LIQUIDS FROM CONDENSATE KNOCKOUT TANK TRANSFER PUMPS (P-201A/B) SHEET 2 — 1"-CS40-N-PL — BA 233 — 1"-CS40-N-PL — PROCESS LIQUIDS TO BAG FILTERS (FX-201A/B) SHEET 4

LAH 150 H, LSH 150 H

S-102
MOISTURE SEPARATOR
230 GAL
FIBERGLASS
468 SCFM
555 ACFM @ -30 IWC

P-202A/B
MOISTURE SEPARATOR TRANSFER PUMPS
DOUBLE DIAPHRAGM
120 PSIG MAX
14 GPM MAX
1.5 GPM @ 10 PSIG

B-101A/B
PROCESS BLOWERS
15 HP, TEFC VARIABLE SPEED
208 VAC, 3 PHASE
120 IWC DESIGN PRESSURE MAX (TOTAL FLOW)
468 SCFM
520 ACFM @+ 20 IWC (DISCHARGE) (TOTAL FLOW)

REV	DATE	CAD / ENG	DESCRIPTION
0	9/4/2024	CN / KG / GM	FINAL REPORT
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PIPING & INSTRUMENTATION DIAGRAM

SCALE: AS SHOWN
SHEET SIZE: D — REV: 0
REFERENCE NO.: R23-104
SHEET: 3 OF 7
DWG NO.: P102

PLOT DATE: 9/4/2024
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COOLING WATER SUPPLY FROM COOLING TOWER (W-402) — SHEET 6
CK 452
3"-PVC80-IC-CWS
CWS

SKID 2 (1303-02-02)
CONEX 2 LIMITS
CONTINUED ON SHEET 5

VENT TO MOISTURE SEPARATOR (S-102) — SHEET 3
2"-CS40-N-VG

AIR SUPPLY FROM CONNEX 2 (Z-501) — SHEET 5
1"-CS40-N-AS
AS

PROCESS LIQUIDS FROM WELLFIELD MPE PUMPS — SHEET 1
2"-CS40-IC-PL

PROCESS LIQUIDS FROM MOISTURE SEPARATOR (S-102) — SHEET 3
1"-CS40-N-PL

PIPED OUTSIDE OF CONEX
PIPED FROM OUTSIDE OF CONEX

3"-PVC80-IC-CWR
CWR
COOLING WATER RETURN TO COOLING TOWER (W-402) — SHEET 6

TE 150 TAH TAL — TEMPERATURE ELEMENT CONTAINER ROOM

BLOWDOWN FROM AIR COMPRESSOR (Z-501) — SHEET 5
½"-CS40-N-PL

TO CWR
3"-PVC80-CWS
2"-CS40-PL
FROM CWS
3"-PVC80-CWS
2"-CS40-PL
2"-CS40-N-PL

E-201

OWS-201

@ 1.5 PSIG
@ 6" WC VAC
VRV 101
PSE 201

SEE TYP. ON LEGEND SHEET 3

P-203A
P-203B
1"x2"
2"x1¼"
2"-CS40-N-PV
2"-CS40-N-PL

PROCESS LIQUIDS TO BAG FILTERS (FX-202A/B) — SHEET 5

2"-CS40-N-VG
2"-PH-N-CL
1"-CS40-N-CL
1"x1½"
1½"-PH-N-CL
1¾"x1"

FX-201A
FX-201B
2"-CS40-N-PL

LOCAL MOUNT
P-302A
P-302B
RUN
AS
1"x½"
½"x¾"
¾"x¾"
½"x1"
1"x1½"

T-351
DNAPL DRUM
T-352
LNAPL DRUM

FX-201A/B	E-201	P-302A/B	OWS-201	P-203A/B	T-351	T-352
BAG FILTERS 150 PSI MAX 15 GPM MAX STAINLESS STEEL 25 MICRON BAGS	LIQUID HEAT EXCHANGER SURFACE AREA 28.7 SF, PLATE AND FRAME, ALLOY C-276 DESIGN PRESSURE 150 PSIG DESIGN TEMPERATURE 230° F RATED CAPACITY: 15 GPM NORMAL (OPERATIONS): 1.9 GPM	DNAPL TRANSFER PUMPS DOUBLE DIAPHRAGM 100 PSI MAX 20 GPM MAX 0.5 GPM @ 10 PSIG	OIL WATER SEPARATOR 210 GALLON CARBON STEEL	OIL WATER SEPARATOR TRANSFER PUMPS 2.0 HP, TEFC, VARIABLE SPEED 208 VAC, 3 PHASE RATED CAPACITY: 20 GPM @ 45 PSIG NORMAL (OPERATIONS): 15 GPM @ 50 PSIG	DNAPL DRUM 55 GAL 23"Ø x 35" HIGH CARBON STEEL	LNAPL DRUM 55 GAL 23"Ø x 35" HIGH CARBON STEEL

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PIPING & INSTRUMENTATION DIAGRAM

SCALE: AS SHOWN
SHEET SIZE: D
REV: 0
REFERENCE NO.: R23-104
SHEET: 4 OF 7
DWG NO.: P102

PLOT DATE: 9/4/2024
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SKID 2
(T303-02-02)

AMBIENT AIR
VENT OUTSIDE OF CONEX

CONEX 2 LIMITS
CONTINUED ON SHEET 4

PACKAGE UNIT

AS 152 — AA-152 SMOKE DETECTOR CONTAINER ROOM

BF 801
HS 501
PAL 501
PSL 501
PI 501
PRV 501
ATM
BA 501
BA 502
BA 503
BA 504
Z-501
TI 501
RECEIVER TANK
AIR DRYER
BA 501
BA 272
BA 273
BA 274
SV 201
KC 201

FX-501 FX-502
BA 275
BA 276

BA 505
1"-CS40-N-AS
½"x1"
BA 506
BA 507
BA 508
FUTURE DESSICANT DRIER
PI 502
BA 509
PRV 501
SP 90 PSIG
1"x½"
PI 503
½"x1"
PAL 502
PSL 502
@ 110 PSIG
BA 510
TOOL AIR CONNECTIONS
1"-CS40-N-AS
BA 511
BA 512
TOOL AIR CONNECTIONS

BA 513 — TO MOISTURE SEPARATOR PUMPS (P-201A/B) — SHEET 2 (CONEX 1)
BA 514 — TO MOISTURE SEPARATOR PUMPS (P-202A/B) — SHEET 3 (CONEX 1)
BA 515 — TO DNAPL PUMPS (P-302A/B) — SHEET 4 (CONEX 2)
BA 516 — TO EA PROVIDED BOILER (V-951) — SHEET 7
BA 517 — TO DISCHARGE PUMP (P-252) — SHEET 6

BLOWDOWN TO OIL WATER SEPARATOR (OWS-201)
SHEET 4
½"-CS40-N-PL

PROCESS LIQUIDS FROM OIL WATER SEPARATOR TRANSFER PUMPS (P-203A/B)
SHEET 4
2"-CS40-N-PL
TI 202
PI 205
BA 240
BA 253
2"-CS40-N-PV
2"-CS40-N-PL
BA 241
BA 242
DPI 203
BA 243
2"
BA 244
BA 247
BA 248
DPI 204
BA 249
BA 250
FX-202A
BA 245
BA 246
FX-202B
BA 251
BA 252
BA 254
BA 261
BA 262
BA 267
BA 269
BA 270
BA 271
FAH
BA 257
BA 260
BA 256
BA 259
PI 206
PI 207
BA 258
LGAC-201
BA 263
BA 266
BA 264
BA 268
BA 265
PI 208
PI 209
LGAC-202

PROCESS LIQUIDS TO TREATED WATER HOLDING TANK (T-251)
SHEET 6
SEE NOTE 1
2"-CS40-IC-PL

NOTE:
1 DISCHARGE LINE TO BE SLOPED AND SUPPORTED SUCH THAT LINE WILL DRAIN EMPTY AND NO POCKETS OF LIQUIDS ARE RETAINED THROUGH TO BOUNDARY LIMITS.

Z-501
AIR COMPRESSOR WITH INTEGRAL DRYER
7.5 HP, TEFC, FIXED SPEED
208 VAC, 3 PHASE
150 PSI MAX
28 SCFM FAD
80 GALLON RECEIVER

FX-202A/B
BAG FILTERS
150 PSI MAX
15 GPM MAX
STAINLESS STEEL
25 MICRON BAGS

FX-501/502
COALESCING FILTERS
(COARSE, FINE, CARBON)
40 CFM @ 100PSI EACH

LGAC-201/202
LIQUID CARBON VESSELS
1,000# CARBON 8x30 MESH
CARBON STEEL

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PIPING & INSTRUMENTATION DIAGRAM

SCALE: AS SHOWN
SHEET SIZE: D
REV: 0
REFERENCE NO.: R23-104
SHEET: 5 OF 7
DWG NO.: P102

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PROCESS VAPORS FROM PROCESS BLOWERS (B-101A/B)
SHEET 3
6"-FRP-N-PV
6"-FLEX HOSE-N-PV
VGAC-151
6"-FLEX HOSE-N-PV
VGAC-152
6"-FLEX HOSE-N-PV
VGAC-153
$KMnO_4$ Z-151
4"-FRP-N-PV
VENT TO ATMOSPHERE

AIR SUPPLY FROM CONNEX 2 (Z-501)
SHEET 5
1"-CS40-N-AS
AS

COOLING WATER RETURN FROM VAPOR HEAT EXCHANGERS (E-101A/B)
SHEET 2
6"-PVC80-IC-CWR

SKID 3
(T810-01)
HOA
LSH 401
LSL 401
LV 601
IHT 401
BA 601
1"
BA 201
1"
BA 401
W-401
LAHH 201
LSHH 201
OVERFLOW

MAKE UP WATER FROM CONDITIONING SYSTEM
B/L
2"-CS40-IC-UW

BLOWDOWN FROM EA BOILER SKID
SHEET 7

PROCESS LIQUIDS FROM LGACS (LGAC-201/202/253)
SHEET 6

COOLING WATER RETURN FROM LIQUID HEAT EXCHANGER (E-201)
SHEET 4

BLOWDOWN FROM AIR COMPRESSOR (W-402)
SHEET 7

2" -PVC80-IC-CW

SKID 4
(T150)
TE 401
TI 401
TAH
TAL
3" FLG
3"-PVC80-IC-CWR
HS 401
PI 401
TIC 402
TAH
TAL
TALL
HS 401
HOA
4"
4"x3"
BF 401
M
TCV 401
LV 401
1"
M/U WATER
4"
4"x3"
4"
LAHH 201
LSHH 201
W-402
4"-PVC80-IC-CWS
BA 401
1/2"

SKID 5
(T272)
4"-PVC80-IC-CW
SEE TYP. ON LEGEND SHEET 3
MC 401A
BF 401
P-401A
BA 402
CK 401
BA 404
3"x4"
PI 402
PT 401
BA 405
GA 401
GA 403
4"-CS40-N-CW
SEE TYP. ON LEGEND SHEET 3
MC 401B
BF 402
P-401B
BA 407
CK 402
3"x4"
BA 408
BA 409
BA 410
GA 402
4"-CS40-N-CW

SEE TYP. ON P100 LEGEND SHEET 3
MC 401A
BF 402
4"x2"
P-402A
1 1/2"x3"
CK 401
BF 404
SEE TYP. ON P100 LEGEND SHEET 3
MC 401B
BF 403
4"x2"
P-402B
1 1/2"x3"
CK 402
BF 405
TT 402
TE 402
TI 401
FAL 401
FSL 401
GA 402
PI 402
BA 402
PI 403
BA 403
FX-401
3"-PVC80-IC-CWS
BF 407
3" FLG
CWS
1½"
BA 404
BF 406
BF 408

TAH 451
TAL 451
TI 451
FIS 451
TT 451
TE 451
BA 451
CK 451
BA 451
3"-PVC80-IC-CW
6"x2"
FI 450
GA 450
GA 451
GA 452
3"-PVC80-IC-CW
COOLING WATER SUPPLY TO VAPOR HEAT EXCHANGERS (E-101A/B)
SHEET 2
6"-PVC80-IC-CWS
COOLING WATER SUPPLY TO LIQUID HEAT EXCHANGERS (E-201)
SHEET 4

2"-CS40-IC-PL
BLOWDOWN
T-251
LSHH 251
LAHH 251
LSH 251
LAH 251
PVRV 251
½"
BF 281
BF 282
2"-CS40-IC-PL
DISCHARGE TO SEWER

T251 TREATED WATER HOLDING TANK 21,000 GALLONS

W-401 COOLING TOWER 100 TON (1) 10 HP FAN 480 VAC, TEFC, 3 PHASE FRP

W-402 COOLING TOWER 50 TON 5 HP FAN 480 VAC, TEFC, 3 PHASE

P-402A/B COOLING TOWER PUMPS TEFC, FIXED SPEED 480 VAC, 3 PHASE 180 GPM @ 39 PSIG 7.5 HP

P-401A/B COOLING WATER PUMPS 10 HP, TEFC, FIXED SPEED 480 VAC, 3Ø 275 GPM @ 40 PSI

FX-401 FILTRATION CARTRIDGE –

VGAC-151/152/153 VAPOR CARBON VESSELS 3,000# CARBON 8x30 MESH CARBON STEEL 457 SCFM

Z-151 PERMANGATE VESSEL 500 LBS $KMnO_4$ MEDIA

1	FINAL REPORT
0	90% DESIGN - DRAFT
REV	DESCRIPTION

TERRATHERM
a Cascade Company

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

PIPING & INSTRUMENTATION DIAGRAM

SCALE: AS SHOWN
SIZE: D REV: 0
DRAWING NO.: R23-104
6 OF 7
P102

AIR SUPPLY FROM CONNEX 2 (Z-501)
SHEET 5
AS
1"-CS40-N-AS

SKID 6
(T296)

1"-CS40-N-AS
PS 501
PRV 501
HS 501
PI 501
FX-501
AMBIENT AIR
Z-501
BA 501
T-501
BA 503
1/4"-CS40-N-PL
BA 201
BLOWDOWN TO TREATED WATER HOLDING TANK (T-251)
SHEET 6

EQUIPMENT WITHIN EA SCOPE

SKID 7
(CLIENT SCOPE)

WATER SUPPLY
B/L
PI 601
2"-PVC80-N-UW
2"x¾"
BA 601
2"x¼"
BA 602
PI 602
TO OEM SOFTENER CONTROLLER
FQI 601
PI 603
BA 603
2"-PVC80-N-UW
PI 601
BA 604
BA 605
BA 610
1"-¾"
SV 601
BA 607
BNV 1
BA 606
VESSEL
BA 609
Z-651
SV 602
BA 613
BNV 2
BA 614
VESSEL
BA 615
BA 611
BA 612
BA 616
1"-¾"
1"-PVC80-N-PL
T-651
BRINE TANK
DV 601
BA 608
3/4"-PVC80-N-UW
DV 602
1"-PVC80-N-UW
1"-PVC80-N-UW
DV 603
LAHH 601
LSHH 601
1/2"-PVC80-N-UW
1/2"x3/8"
CK 201
3/8"-ID TUBING
P-251
AS
BA 701
BA 702
PSL 701
PI 701
BA 703
BA 704
BA 705
M
BA 706
BA 707
FO
ATM
BA 708
M
ZSL 701
TY 601
UP
SV 701
TCV 701
BA 709
PSH 701
PI 702
BA 710
BA 711
BOT 601
BAL 601
2"-PVC-IC-UW
BA 617
DE-AERATOR Z-652
SV 603
TSH 601
LS 601
V-951
BA 618
LI 601
BA 619
PSL 601
RECEIVER TANK Z-653
PI 901
PRV 901
TE 951
PI 951
GA 951
4"-CS80-IH-ST
TO WELLFIELD
SHEET 1
2"-CS40-IC-PL
BLOWDOWN TO TREATED WATER HOLDING TANK (T-251)
SHEET 6
2"-CS40-IC-UW
SEE NOTE 1 & 2
NATURAL GAS
B/L
X"-CS40-N-NG
COMBUSTION AIR
B/L
X"-CS40-N-AA

NOTE:
1. BOILER PACKAGE AND WATER SOFTENER SYSTEM WILL BE FURNISHED BY CLIENT.
2. DETAILS OF THE CLIENT SUPPLIED EQUIPMENT, INCLUDING LINE SIZES, MATERIALS, VALVES AND INSTRUMENTS, MAY DEVIATE FROM WHAT IS INDICATED ABOVE.

P-251 BRINE CONTROLLER PUMP –	**T-651** BRINE TANK –	**Z-651** WATER CONDITIONER –	**V-951** STEAM BOILER –	**Z-652** WATER SOFTNER DEAERATOR –	**V-653** RECEIVER TANK –

FX-501 AIR INTAKE FILTER –	**Z-501** BACKUP AIR COMPRESSOR 5 HP, TEFC, FIXED SPEED 480 VAC, 3 PHASE 23 CFM @ 175 PSI	**T-501** AIR RECEIVER TANK –

FINAL REPORT

REV	DATE	BY	DESCRIPTION
0	9/4/2024	MC	FINAL REPORT
1	8/16/2024	MC	90% DESIGN - DRAFT

TERRATHERM
a Cascade Company

IN SITU THERMAL REMEDIATION DESIGN
JACKSONVILLE, NORTH CAROLINA

PIPING & INSTRUMENTATION DIAGRAM

AS SHOWN
SIZE: D REV: 0
DE NO.: R23-104
7 OF 7
P102

PLOT DATE: 9/4/2024
FILE: J:\PROJECTS\EA ENGINEERING - VARIOUS\EA ENGINEERING - JACKSONVILLE, NC\01-DESIGN\001-DFS\WIP\DS\9000-SIGNED OFF DWGS\AS-BUILT\P102-PN1D.DWG
CTB FILE: TT-STANDARD.CTB

TERRATHERM
a Cascade Company

Appendix B

Well Construction Logs

TERRATHERM
A Carbon Cable Company

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-1
Oversight: J. Baugh
Driller: F. Dorse

Date: 7-20-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 58.67

Ground Surface 0.0'

Heater Can: Schedule 40

Heater Can Length: 59 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	3	1	
Bags of Silica	4	2	
Bags of Cement	13	11	
Bottom of Heater Can	57'		
Bottom of Borehole	57'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: — Constructed: —
Depth to bottom of well [ft bTOC: Design 59' — Constructed —
if greater than or equal to 1ft less than designed alert the office
2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	13:00	Reading	0.0 PPM
Time:	14:00	Reading	0.0 PPM
Time:	15:00	Reading	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

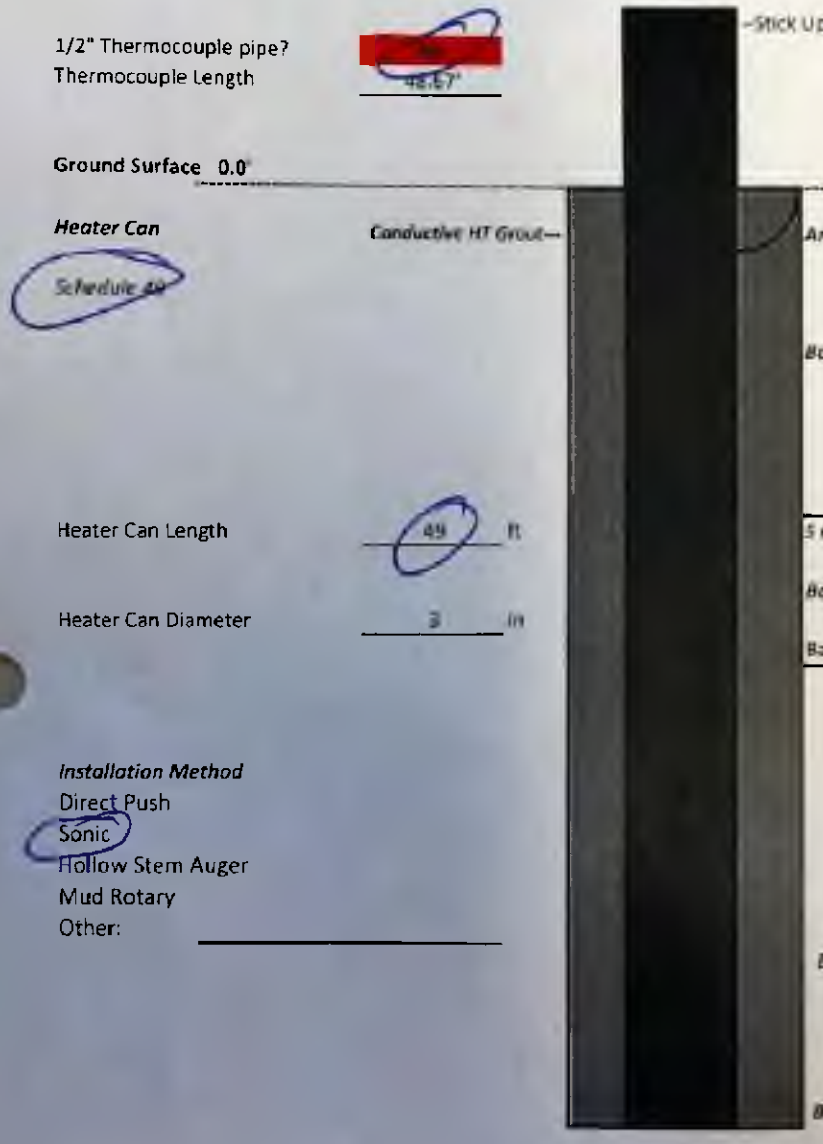
Notes:

TERRATHERM
a Cascade Company

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-2
Date: 7-24-23
Oversight: D. Phillips
Job #: R23-104
Driller: F. Dorse



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	7.5	7	
Bags of Silica	3.25	2	
Bags of Cement	10.75	10	
Bottom of Heater Can	47'		
Bottom of Borehole	47'		

1/2" Thermocouple pipe? [redacted]
Thermocouple Length 48.67'

Heater Can Length 49 ft

Heater Can Diameter 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC	49'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log Make/Model:

Time:	9:20	Reading	0.8 PPM
Time:	9:30	Reading	0.8 PPM
Time:		Reading	PPM
Time:		Reading	PPM
Time:		Reading	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-3
Oversight: D. Phillips
Driller: F. Dorse
Date: 7-24-23
Job #: R23-104

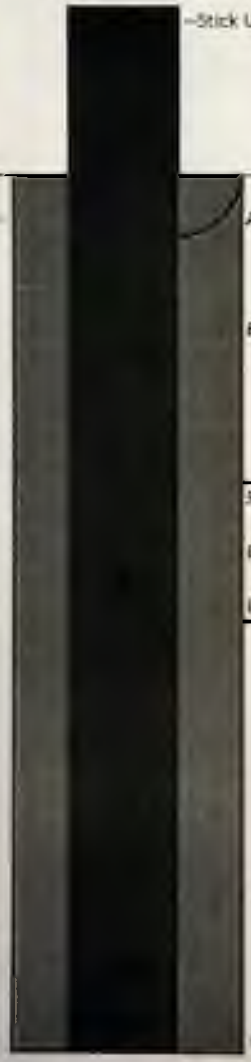
1/2" Thermocouple pipe? Yes
Thermocouple Length: 27.67'

Ground Surface 0.0'

Heater Can
Schedule 40

Heater Can Length: 28 ft
Heater Can Diameter: 3 in

Installation Method
~~Direct Push~~
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.25	1	
Bags of Silica	1.75	1	
Bags of Cement	6		
Bottom of Heater Can	26'		
Bottom of Borehole	28'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	28'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	10:00	Reading:	0.0 PPM
Time:	11:03	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-4
Oversight: T. Baugh
Driller: F. Dorse

Date: 7-21-23
Job #: R23-104

	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"	24"	
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	3	1	
Bags of Silica	4	2	
Bags of Cement	13	11	
Bottom of Heater Can	57'		
Bottom of Borehole	57		

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 8.67'

Ground Surface 0.0'

Heater Can: Schedule 40

Conductive HT Grout

Heater Can Length: 59 ft

Heater Can Diameter: 3 in

Installation Method
- Direct Push
- Sonic
- Hollow Stem Auger
- Mud Rotary
- Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	59'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model

Time: 8:30	Reading 0.0	PPM
Time: 9:25	Reading 0.0	PPM
Time: 10:30	Reading 0.0	PPM
Time: 11:30	Reading 0.0	PPM
Time:	Reading	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-5
Date: 09-19-23
Oversight: R. RAMOS.
Job #: R23-104
Driller: B. GRIFFAS

	Design	Constructed (fill out if different)	Notes
Stick Up Height	3'		

1/2" Thermocouple pipe? Yes
Thermocouple Length 74.67'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*---

Schedule 40

Angle from Horizontal	90°		
Borehole Diameter	6"		
Heater Can Length	75 ft		
Gal Buckets of Graphite	3.75		
Bags of Silica	5.25		
Heater Can Diameter	3 in		
Bags of Cement	16.75		
Bottom of Heater Can	73'		
Bottom of Borehole	73'		

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other: _____

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	75'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	13:15	Reading:	0.7 PPM
Time:	14:35	Reading:	0.9 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-6
Oversight: R Ramos
Driller: Branden Griffis

Date: 09-12-23 / 09-13-23
Job #: R23-104

	Design	Constructed (fill out if different)	Notes
--Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	3.75		
Bags of Silica	5.25		
Bags of Cement	16.75		
Bottom of Heater Can	73'		
Bottom of Borehole	73'		

1/2" Thermocouple pipe? Yes
Thermocouple Length 74.67'

Ground Surface 0.0'

Heater Can
Schedule 40

Conductive HT Grout

Heater Can Length 75 ft

Heater Can Diameter 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: — Constructed:
Depth to bottom of well (ft bTOC — Design: 75' — Constructed:
if greater than or equal to 1ft less than designed alert the office
2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 16:15	Reading: 0.1	PPM
Time: 09:55	Reading: 0.1	PPM
Time: 09:06	Reading: 0.1	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

SIW Boring Construction Detail

Revision #: 1
Release date: 6/27/23
Approved by: EH

Well ID: H-7
Oversight: J. Baugh
Driller: Brandon
Date: 9-7-23
Job #: R23-104

	Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?			
Thermocouple Length: 58.67'			
Heater Stick Up Height	24"		
SIW Stick Up Height	18"		
Ground Surface 0.0'			
Conductive HT Grout			
Heater Can: Schedule 80			
Heater Can Length: 59'			
Heater Can Diameter: 3'			
SIW			
Riser Length: 51.5 ft			
Screen Length: 2 ft			
Screen Material: Stainless Steel / Fiberglass / Other:			
SIW Slot Size: 10			
Screen Diameter: 1"			
Installation Method: Sonic / Direct Push / Hollow Stem Auger / Mud Rotary / Other:			
Angle from Horizontal	90°		
Borehole Diameter	7"		
5 Gal Buckets of Graphite	2		
Bags of Silica	3		
Bags of Cement	9.5		
Top of #00 Sand	30'		
Bags of Sand	8		
Gallons of Limestone	8		
Top of Screen	50'		
Bottom of Screen	52'		
Bottom of #00 Sand	54'		
Conductive High Temp Grout			
Bottom of Borehole	57'		



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]:	59'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 10:36	Reading: 0.0 PPM
Time: 1:15	Reading: 0.0 PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID H-8

Date 9-5-23

Oversight Jessie Baugh

Job # R23-104

Driller Brandon

1/2" Thermocouple pipe?

Thermocouple Length 48.67'

Ground Surface 0.0'

Heater Can

Schedule 40

Heater Can Length 49 ft

Heater Can Diameter 3 in

Installation Method

Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	2.5		
Bags of Silica	3.25		
Bags of Cement	10.75		
Bottom of Heater Can	47'		
Bottom of Borehole	47'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	49'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 7:45	Reading: 0.2 PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-9
Date: 8-31-23
Oversight: J. Bauer
Job #: R23-104
Driller: Boredon

1/2" Thermocouple pipe? Yes
Thermocouple Length: 48.5'

Ground Surface 0.0'

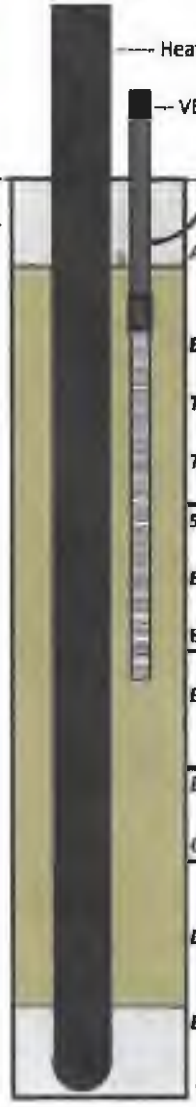
Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 49.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"		
VEW Stick-Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	13'		
Bags of #00 Sand	45	17	
Gallons of Limestone	14.5		
Bottom of #00 Sand	40'		
Bottom of Heater Can	47'		
Bottom of Borehole	47'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	49.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 2:52	Reading: 0.3	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM
A Cascade Company

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-10
Oversight: D. Phillips
Driller: F. Dorst

Date: 7-23-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 37.67'

Ground Surface 0.0'

Heater Can
Schedule 40

Heater Can Length: 36 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.75	1	
Bags of Silica	2.5	2	
Bags of Cement	8.25	4	
Bottom of Heater Can	36'		
Bottom of Borehole	36'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	38'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	11:30	Reading: 0.0	PPM
Time:	13:00	Reading: 0.0	PPM
Time:	15:20	Reading: 0.0	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-11
Oversight: J. Baugh
Driller: Fred Dorse

Date: 7-19-23
Job #: R23-104

1/2" Thermocouple pipe?
Thermocouple Length: [redacted] 37'11"

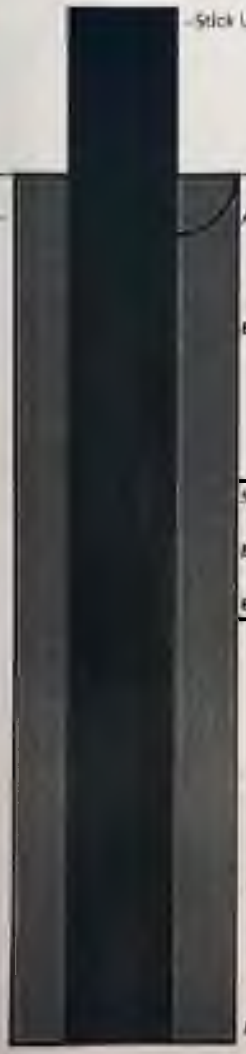
Ground Surface 0.0

Heater Can
Schedule 40

Conductive HT Grout

Heater Can Length: 38 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"	24"	
Angle from Horizontal	90°		
Borehole Diameter	5"		
5 Gal Buckets of Graphite	1.75	1	
Bags of Silica	2.5	2	
Bags of Cement	8.25	4	
Bottom of Heater Can	38'		
Bottom of Borehole	38'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: Constructed:
Depth to bottom of well (ft bTOC: Design 38' — Constructed _____
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	Reading	PPM
Time:	Reading	PPM
Time:	Reading	PPM
Time:	Reading	PPM
Time:	Reading	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-12
Oversight: J. Baugh
Driller: Fred

Date: 7-11-23
Job #: R23-104

1/2" Thermocouple pipe?
Thermocouple Length: 27.67'

Ground Surface 0.0'

Heater Can — ***Conductive HT Grout***

Schedule 40

Heater Can Length: 28 ft

Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"	225'	22' 6"
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.25		
Bags of Silica	1.75		
Bags of Cement	6		
Bottom of Heater Can	26'		
Bottom of Borehole	26'	26	

Post-Installation QC (to be performed 24hrs after installation)

3) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	28'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	Reading:	PPM
Time:	Reading	PPM
Time:	Reading	PPM
Time:	Reading	PPM
Time:	Reading	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-13
Date: 7-10-23
Oversight: D. Phillips
Job #: R23-104
Driller: F. Porse

1/2" Thermocouple pipe?
Thermocouple Length: 27.67'



Heater Can
Schedule 40

Heater Can Length: 28 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"	24"	
Angle from Horizontal	90°		
Borehole Diameter	6"	6"	
5 Gal Buckets of Graphite	1.25	1	
Bags of Silica	1.75	2	
Bags of Cement	6	4	
Bottom of Heater Can	26'		
Bottom of Borehole	26	26'	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 28' — Constructed:
Depth to bottom of well (ft bTOC)
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	9:56	Reading:	0.0 PPM
Time:	10:30	Reading:	0.0 PPM
Time:	11:00	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:
Red/Red

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-14
Date: 7-10-23
Oversight: D. Phillips
Job #: R23-104
Driller: E, Darse

1/2" Thermocouple pipe? ~~No~~
Thermocouple Length: ~~27.67'~~

Ground Surface 0.0'

Heater Can — Conductive HT Grout —
Schedule 80

Heater Can Length: 28.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: ~~3/4~~ in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	~~30~~"	22.5	
VEW Stick-Up Height	~~18~~"	16"	
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5	1	
Bags of Silica	0.75	2	
Bags of Cement	2.25	4	
Bottom of Screen	13'		
Bags of #00 Sand	6.5		
Gallons of Limestone	6.5		
Bottom of #00 Sand	20'		
Bottom of Heater Can	26'		
Bottom of Borehole	26'	26	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	28.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	1:30	Reading: 0.0	PPM
Time:	2:15	Reading: 0.0	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:
Red/[redacted]

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-15
Date: 7-19-23
Oversight: J. Baugh
Job #: R23-104
Driller: Fred Dorse

1/2" Thermocouple pipe? Yes
Thermocouple Length: 27.67'

Heater Can: Schedule 80
Conductive HT Grout

Heater Can Length: 28.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"	24	
VEW Stick-Up Height	18"		
Ground Surface	0.0'		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5	1	
Bags of Silica	0.75	2	
Bags of Cement	2.25	4	
Bottom of Screen	13'		
Bags of #00 Sand	6.5		
Gallons of Limestone	6.5		
Bottom of #00 Sand	20'		
Bottom of Heater Can	26'		
Bottom of Borehole	26'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	28.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-16
Date: 7-11-23
Oversight: J. Baugh
Job #: R23-104
Driller: Ecc Doroc

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 27.67'

Ground Surface 0.0'

Heater Can
Schedule 40

Conductive HT Grout

Heater Can Length: 28 ft

Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"	24	
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	135		
Bags of Silica	175		
Bags of Cement	5		
Bottom of Heater Can	26		
Bottom of Borehole	26'	26	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	28'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:
Red/Red

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-17
Oversight: D. Phillips
Driller: E. Dorsey
Date: 7-10-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 27.67'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 28.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"	24	
VEW Stick-Up Height	18"	18	
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5	1 bucket	
Bags of Silica	0.75		
Bags of Cement	2.25	1	
Bottom of Screen	13'	13'	
Bags of #00 Sand	6.5	6	
Gallons of Limestone	0.5	3	
Bottom of #00 Sand	20'		
Bottom of Heater Can	26'		
Bottom of Borehole	26'	26'	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well (ft bTOC)	28.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 12:30	Reading: 0.0	PPM
Time: 13:30	Reading: 0.0	PPM
Time: 7:30	Reading: 0.0	PPM
Time: 8:30	Reading: 0.0	PPM
Time:	Reading:	PPM

Notes:

[redacted]/Rod

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-18
Oversight: J. Baugh
Driller: E. Darse

Date: 7-20-23
Job #: R23-104

	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	8"		
5 Gal Buckets of Graphite	1.75	1	
Bags of Silica	2.5	2	
Bags of Cement	3.25	4	
Bottom of Heater Can	36'		
Bottom of Borehole	38'		

1/2" Thermocouple pipe? [redacted]
Thermocouple Length [redacted]

Ground Surface 0.0'

Heater Can
Schedule 40

Conductive HT Grout

Heater Can Length: 38 ft

Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	38'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 9:00 am	Reading: 0.0	PPM
Time: 10:00 am	Reading: 0.0	PPM
Time: 11:20 am	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **H-19**
Oversight: O. Phillips
Driller: F. Morse
Date: 7-27-23
Job #: R23-104

1/2" Thermocouple pipe? ~~Y~~ N
Thermocouple Length: 48.67'

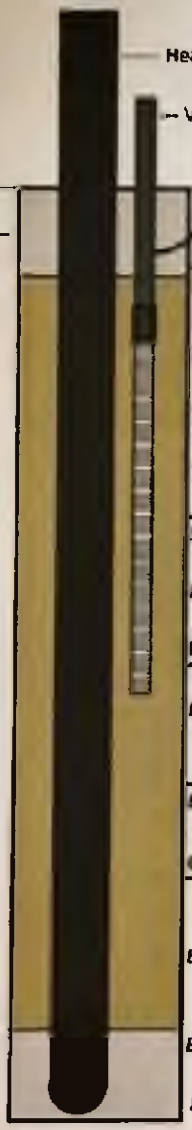
Ground Surface 0.0'

Heater Can: Schedule 80
Conductive HT Grout

Heater Can Length: 49.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
Direct Push
(Sonic)
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"		
VEW Stick-Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5	1	
Bags of Silica	0.75	1	
Bags of Cement	2.75	2	
Bottom of Screen	13'		
Bags of #00 Sand	14.5		
Gallons of Limestone	14.5	14	
Bottom of #00 Sand	40'		
Bottom of Heater Can	47'		
Bottom of Borehole	47'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	49.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 14:00	Reading: 2.5	PPM
Time: 14:30	Reading: 2.0	PPM
Time: 15:00	Reading: 2.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **H-20**
Oversight: J. Baugh
Driller: Brandon

Date: 9-6-23
Job #: R23-104

1/2" Thermocouple pipe? **No**
Thermocouple Length: 58.67

Ground Surface 0.0'

Conductive HT Grout

Heater Can
Schedule 80

Heater Can Length: 59.5'
Heater Can Diameter: 3'

SIW
Riser Length: 51.5 ft
Screen Length: 2 ft
Screen Material
Stainless Steel
Fiberglass
Other:

SIW Slot Size: 10
Screen Diameter: 1"

Installation Method
Sonic
Direct Push
Hollow Stem Auger
Mud Rotary
Other:

Conductive High Temp Grout



	Design	Constructed (fill out if different)	Notes
Heater Stick Up Height	30"		
SIW Stick Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Gal Buckets of Graphite	2.25		
Bags of Silica	3		
Bags of Cement	10		
Top of #00 Sand	30'		
Bags of Sand	7.5		
Gallons of Limestone	7.5		
Top of Screen	50'		
Bottom of Screen	52'		
Bottom of #00 Sand	54'		
Bottom of Borehole	57'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC]:	59.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 1:30	Reading: 0.1	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-21
Date: 09-09-23
Oversight: R. Ramos
Job #: R23-104
Driller: Kelly

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?				
Thermocouple Length	58.67'			
Heater Stick Up Height		30"		
SIW Stick Up Height		18"		
Ground Surface 0.0'				
Conductive HT Grout				
Heater Can				
Schedule 80				
Heater Can Length	59.5'			
Heater Can Diameter	3'			
Angle from Horizontal		90°		
Borehole Diameter		7"		
SIW				
Riser Length	51.5 ft			
Screen Length	2 ft			
Screen Material				
Stainless Steel				
Fiberglass				
Other:				
5 Gal Buckets of Graphite		2.25		
Bags of Silica		3		
Bags of Cement		10		
Top of #00 Sand		30'		
SIW Slot Size	10			
Screen Diameter	1"			
Bags of Sand		7.5		
Gallons of Limestone		7.5		
Top of Screen		50'		
Installation Method				
Sonic				
Direct Push				
Hollow Stem Auger				
Mud Rotary				
Other:				
Bottom of Screen		52'		
Bottom of #00 Sand		54'		
Conductive High Temp Grout				
Bottom of Borehole		57'		



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]:	59.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 08:55	Reading: 0.0	PPM
Time: 10:00	Reading: 0.0	PPM
Time: 11:05	Reading: 0.0	PPM
Time: 13:30	Reading: 0.0	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-22
Oversight: Devan Phillips
Driller: Kelly Grant

Date: 09-24-25
Job #: R23-104

1/2" Thermocouple pipe? ~~No~~
Thermocouple Length: 74.67'

Ground Surface 0.0'

Conductive HT Grout

~~Heater Can~~
Schedule 80

Heater Can Length: 75.5'
Heater Can Diameter: 3'

SIW
Riser Length: 67.5 ft
Screen Length: 2 ft
Screen Material
Stainless Steel
Fiberglass
Other:

SIW Slot Size: 10
Screen Diameter: 1"

~~Installation~~ Method
Sonic
Direct Push
Hollow Stem Auger
Mud Rotary
Other:

Conductive High Temp Grout



	Design	Constructed (fill out if different)	Notes
Heater Stick Up Height	30"		
SIW Stick Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
5 Gal Buckets of Graphite	2.25	1	
Bags of Silica	3	3	
Bags of Cement	10	5	
Top of #00 Sand	30'		
Bags of Sand	12.5		
Gallons of Limestone	12.5		
Top of Screen	66'		
Bottom of Screen	68'		
Bottom of #00 Sand	70'		
Bottom of Borehole	73'		

Post-Installation QC (to be performed 24hrs after installation)

	Design	Constructed
1) Confirm well is free of grout		
Depth to bottom of well (ft bTOC):	75.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 10:30	Reading: 0.0	PPM
Time: 11:20	Reading: 0.0	PPM
Time: 13:20	Reading: 0.0	PPM
Time: 14:00	Reading: 0.0	PPM
Time: 15:20	Reading: 0.0	PPM

Notes:

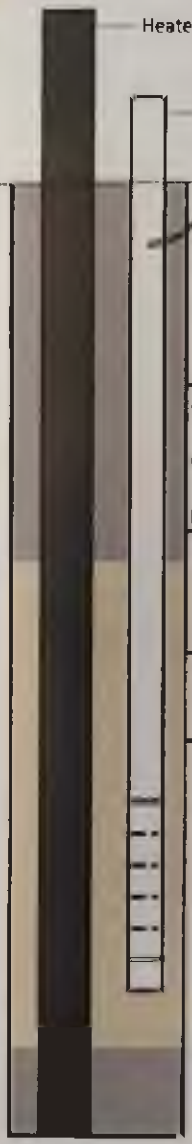
TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-23
Date: 9-27-23
Oversight: J. Baugh
Job #: R23-104
Driller: K Grant

	Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	Yes		
Thermocouple Length	[illegible]		
Heater Stick Up Height	30		
SIW Stick Up Height	18		
Ground Surface 0.0'			
Conductive HT Grout			
Heater Con			
Schedule 80			
Heater Con Length	59.5'		
Heater Con Diameter	3"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
5 Gal Buckets of Graphite	2.25		
SIW			
Riser Length	51.5 ft		
Screen Length	2 ft		
Bags of Silica	3		
Screen Material			
Stainless Steel			
Fiberglass			
Other:			
Bags of Cement	10		
Top of #00 Sand	30'		
SIW Slot Size	10		
Screen Diameter	1"		
Bags of Sand	7.5		
Gallons of Limestone	7.5		
Installation Method			
Sonic			
Direct Push			
Hollow Stem Auger			
Mud Rotary			
Other:			
Top of Screen	50'		
Bottom of Screen	52'		
Bottom of #00 Sand	54'		
Conductive High Temp Grout			
Bottom of Borehole	57'		



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 59.5' — Constructed: ____

Depth to bottom of well [ft bTOC]:

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 8:35	Reading: 0.1	PPM	
Time: 9:35	Reading: 0.0	PPM	
Time:	Reading:	PPM	9-28-23
Time: 9:00	Reading: 0.2	PPM	
Time: 10:15	Reading: 0.0	PPM	

Notes: 11:00 0.1

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-24

Date: 9-28-23

Oversight:

Job #: R23-104

Driller:

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?				
Thermocouple Length	58.67			
Heater Stick Up Height		30"		
SIW Stick Up Height		18"		
Ground Surface 0.0'				
Conductive HT Grout				
Heater Can				
Schedule 80				
Heater Can Length	59.5'			
Heater Can Diameter	3"			
Angle from Horizontal		90°		
Borehole Diameter		7"		
SIW				
Riser Length	51.5 ft			
Screen Length	2 ft			
Screen Material				
Stainless Steel				
Fiberglass				
Other:				
5 Gal Buckets of Graphite		2.25		
Bags of Silica		3		
Bags of Cement		10		
Top of #00 Sand		30'		
SIW Slot Size	10			
Screen Diameter	1"			
Bags of Sand		7.5		
Gallons of Limestone		7.5		
Installation Method				
Sonic				
Direct Push				
Hollow Stem Auger				
Mud Rotary				
Other:				
Top of Screen		50'		
Bottom of Screen		52'		
Bottom of #00 Sand		54'		
Conductive High Temp Grout				
Bottom of Borehole		57'		



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]:	59.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 1:15	Reading: 0.1	PPM
Time: 3:00	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-25
Date: 10-2-23
Oversight: J. Baugh
Job #: R23-104
Driller: K. Grant

	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.25		
Bags of Silica	1.75		
Bags of Cement	6		
Bottom of Heater Can	26'		
Bottom of Borehole	26'		

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 27.6"

Ground Surface: 0.0'

Heater Can
Schedule 40

Conductive HT Grout

Heater Can Length: 28 ft

Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	28'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 12:40	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-26
Date: 10-03-23
Oversight: J. Baugh
Driller: K. Grant
Job #: R23-104

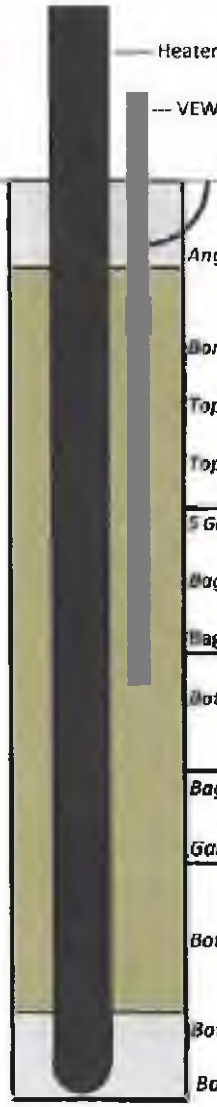
1/2" Thermocouple pipe? No
Thermocouple Length 27.67'

Heater Can — Schedule 80
Conductive HT Grout

Heater Can Length 28.5 ft
Heater Can Diameter 3 in

Screen Length 10 ft
Screen Diamter 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	3'		
VEW Stick-Up Height	1'		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.25		
Bottom of Screen	13'		
Bags of #00 Sand	6.5		
Gallons of Limestone	6.5		
Bottom of #00 Sand	20'		
Bottom of Heater Can	26'		
Bottom of Borehole	26'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	28.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 14:30	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-27
Oversight: J. Baugh
Driller: K. Grant

Date: 10-03-23 / 10-04-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 27.67'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 40

Heater Can Length: 28 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
--Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.25		
Bags of Silica	1.75		
Bags of Cement	6		
Bottom of Heater Can	26'		
Bottom of Borehole	28'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 28' — Constructed:
Depth to bottom of well (ft bTOC)
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 0800	Reading: 0.1	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-28
Date: 10-2-23
Oversight: T. Baugh
Job #: R23-104
Driller: K. Grant



		Design	Constructed (fill out if different)	Notes
Stick Up Height		24"		
1/2" Thermocouple pipe?				
Thermocouple Length	27.67'			
Heater Can	Schedule 40			
Angle from Horizontal		90°		
Borehole Diameter		9"		
Heater Can Length	28 ft			
Heater Can Diameter	3 in			
5 Gal Buckets of Graphite		1.25		
Bags of Silica		1.25		
Bags of Cement		6		
Bottom of Heater Can		28'		
Bottom of Borehole		29'		

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC	28'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	15:10	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-29
Oversight: J. Bang
Driller: Kelly Grant
Date: 9-29-23
Job #: R23-104

1/2" Thermocouple pipe? No
Thermocouple Length: 48.67'

Heater Can Length: 49.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"		
VEW Stick-Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	13'		
Bags of #00 Sand	14.5		
Gallons of Limestone	14.5		
Bottom of #00 Sand	40'		
Bottom of Heater Can	47'		
Bottom of Borehole	47'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well (ft bTOC	49.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 9:20	Reading: 0.3	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-30
Oversight: J. Baugh
Driller: K. Grant

Date: 9-25-23
Job #: R23-104

1/2" Thermocouple pipe? Yes
Thermocouple Length: 58.67'

Ground Surface 0.0'

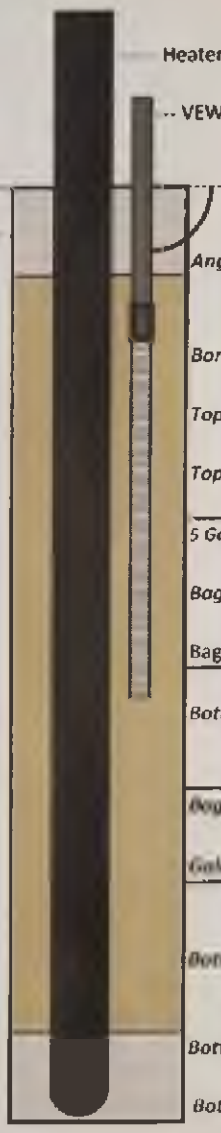
Heater Can — *Schedule 80*

Conductive HT Grout

Heater Can Length: 59.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"		
VEW Stick-Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	13'		
Bags of #00 Sand	18.5		
Gallons of Limestone	18.5		
Bottom of #00 Sand	50		
Bottom of Heater Can	57'		
Bottom of Borehole	57'		

Post-Installation QC (to be performed 24hrs after Installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	59.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 2:00	Reading: 0.2	PPM
Time: 3:20	Reading: 0.2	PPM
Time:	Reading:	PPM
Time: 9:00	Reading: 0.1	PPM
Time: 9:50	Reading: 0.2	PPM

9-25-23
9-26-23

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-31
Date: 09-10-23 / 09-11-23 RR
Oversight: R. Ramos
Driller: Kelly / Brandon
Job #: R23-104

1/2" Thermocouple pipe? Yes
Thermocouple Length 58.67'

Ground Surface 0.0'

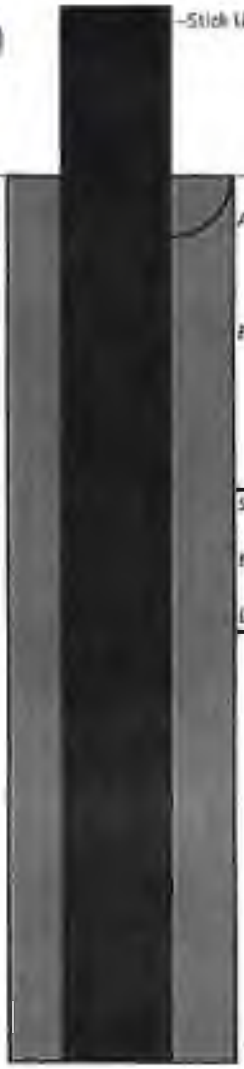
Heater Can — Schedule 40

Conductive HT Grout

Heater Can Length 59 ft

Heater Can Diameter 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	3		
Bags of Silica	4		
Bags of Cement	13		
Bottom of Heater Can	57'		
Bottom of Borehole	57'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	59'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	14:10	Reading:	0.0 PPM
Time:	15:00	Reading:	0.1 PPM
Time:	09:35	Reading:	0.1 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

RR 09-11-23

Notes:

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-32
Oversight: J. Bangle
Driller: K. Grote
Date: 8-30-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 58.67'

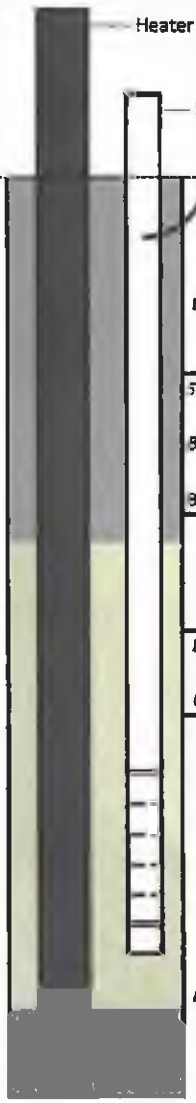
Heater Can
Schedule 80

Heater Can Length: 59.5'
Heater Can Diameter: 3'

SIW
Riser Length: 51.5 ft
Screen Length: 2 ft
Screen Material
Stainless Steel
Fiberglass
Other:

SIW Slot Size: 10
Screen Diameter: 1"

Installation Method
Sonic
Direct Push
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Angle from Horizontal	90°		
Borehole Diameter	7"		
5 Gal Buckets of Graphite	2.25	4.2	
Bags of Silica	3	1	
Bags of Cement	10	3	
Top of #00 Sand	30'		
Bags of Sand	7.5	9	
Gallons of Limestone	7.5		
Top of Screen	50'		
Bottom of Screen	52'		
Bottom of #00 Sand	54'		
Bottom of Borehole	57'		

Post-installation QC (to be performed 24hrs after installation)

1) **Confirm well is free of grout** — Design / Constructed
Depth to bottom of well [ft bTOC]: 59.5' / ____
If greater than or equal to 1ft less than designed alert the office
2) **Confirm grout plug reaches ground surface**
Repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 3:30	Reading: 0.0 PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-33
Date: 9-5-23
Oversight: J. Baugh
Job #: R23-104
Driller: Bowlon

1/2" Thermocouple pipe?
Thermocouple Length: 58.67'

Ground Surface 0.0'

Heater Can — *Schedule 80*

Conductive HT Grout

Heater Can Length: 59.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"		
VEW Stick-Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	13'		
Bags of #00 Sand	185	87	
Gallons of Limestone	18.5		
Bottom of #00 Sand	50'		
Bottom of Heater Can	57'		
Bottom of Borehole	57'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	59.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 12:55	Reading: 0.4	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-34
Oversight: J. Baugh
Driller:

Date: 8-29-23
Job #: R23-104

1/2" Thermocouple pipe?
Thermocouple Length: 58.67

Ground Surface 0.0

Conductive HT Grout

Heater Can
Schedule 80

Heater Can Length: 59.5'
Heater Can Diameter: 3'

SIW
Riser Length: 51.5 ft
Screen Length: 2 ft
Screen Material
Stainless Steel
Fiberglass
Other:

SIW Slot Size: 10
Screen Diameter: 1"

Installation Method
Sonic
Direct Push
Hollow Stem Auger
Mud Rotary
Other:

Conductive High Temp Grout



	Design	Constructed (fill out if different)	Notes
Heater Stick Up Height	30"		
SIW Stick Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
5 Gal Buckets of Graphite	2	1/2	
Bags of Silica	1	1	
Bags of Cement	4	3	
Top of #00 Sand	30'		
Bags of Sand	7.5	9	
Gallons of Limestone	7.5		
Top of Screen	50'		
Bottom of Screen	52'		
Bottom of #00 Sand	54'		
Bottom of Borehole	57'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]:	59.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 11:00	Reading: 0.0	PPM
~~Time:~~	~~Reading:~~	~~PPM~~
Time: 7:20	Reading: 0.0	PPM
Time: 7:50	Reading: 0.0	PPM
Time: 8:30	Reading: 0.1	PPM

8-29-23
8-30-23

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-35
Oversight: D. Phillips
Driller: F. Dorse

Date: 7-23-23
Job #: R23-104

1/2" Thermocouple pipe? Yes
Thermocouple Length: 37.67'

Ground Surface 0.0'

Heater Can
Schedule 40

Conductive HT Grout

Heater Can Length: 39 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (Fill out if different)	Notes
Stick Up Height		25"	
5 Gal Buckets of Graphite	1.75	1	
Bags of Silica	2.5	2	
Bags of Cement	8.25	4	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	38'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model

Time:	8:30	Reading:	0.0 PPM
Time:	8:30	Reading:	0.0 PPM
Time:	9:00	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **H-36**
Date: 7-9-23
Oversight: D Phillips
Job #: R23-104
Driller: F. Dorse

1/2" Thermocouple pipe?
Thermocouple Length: 37.67'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 40

Heater Can Length: 38 ft

Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
--Stick Up Height	24"	22.5	
Angle from Horizontal	90°		
Borehole Diameter	6"	6"	
Gal Buckets of Graphite	1.75	1	
Bags of Silica	2.5	2	
Bags of Cement	8.25	4	
Bottom of Heater Can	36'		
Bottom of Borehole	36'	36'	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	38'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	7:30	Reading:	0.0 PPM
Time:	8:30	Reading:	0.0 PPM
Time:	9:30	Reading:	0.0 PPM
Time:	10:30	Reading:	0.0 PPM
Time:		Reading:	PPM

Notes: Yellow/yellow

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-37
Date: 7-21-23
Oversight: D. Phillips
Job #: R23-104
Driller: Fred Norse

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	Yes			
Thermocouple Length	37.67'			
--Stick Up Height		2'		
Ground Surface	0.0'			
Heater Can	Schedule 40			
Conductive Ht Grout--- Angle from Horizontal		90°		
Borehole Diameter		6"		
Heater Can Length	38 ft			
5 Gal Buckets of Graphite		1.75	1	
Bags of Silica		2.5	2	
Heater Can Diameter	3 in			
Bags of Cement		8.25	4	
Bottom of Heater Can		36		
Bottom of Borehole		36		



Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	38'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 13:00pm	Reading: 0.0	PPM
Time: 14:00pm	Reading: 0.0	PPM
Time: 15:00pm	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-38
Oversight: J. Baugh
Driller: Fred Dorse

Date: 7-18-23
Job #: R23-104

1/2" Thermocouple pipe? Yes
Thermocouple Length: ~~37.5'~~

Ground Surface 0.0'

Heater Can: Schedule 80

Conductive HT Grout

Heater Can Length: 38.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
- Direct Push
- Sonic
- Hollow Stem Auger
- Mud Rotary
- Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"	30	
VEW Stick-Up Height	18"	18	
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	~~8.5~~	1	
Bags of Silica	0.75	2	
Bags of Cement	~~2.25~~	4	
Bottom of Screen	13'		
Bags of #00 Sand	10.5		
Gallons of Limestone	10.5		
Bottom of #00 Sand	30'		
Bottom of Heater Can	36'		
Bottom of Borehole	36'	36	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	38.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 9:30	Reading: 0.0	PPM
Time: 9:00	Reading: 0.0	PPM
Time: 10:00	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-39
Date: 7-11-23
Oversight: J Baugh
Driller: Fred Doose
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 37.67'

Ground Surface: 0.0'

Heater Can Length: 38 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"	24	
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.75		
Bags of Silica	2.5		
Bags of Cement	8.25		
Bottom of Heater Can	36'		
Bottom of Borehole	40	36	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOI)	38	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-40
Date: 7-12-23
Oversight: J. Baugh
Job #: R23-104
Driller: Fred Dorsc

1/2" Thermocouple pipe? [illegible]
Thermocouple Length: [illegible].67'

Ground Surface 0.0'

Heater Can
Schedule 40

Heater Can Length: 38 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90		
Borehole Diameter	6"		
Gal Buckets of Graphite	1.75	1	
Bags of Silica	2.5	2	
Bags of Cement	8.25	4	
Bottom of Heater Can	36		
Bottom of Borehole	36		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well (ft bTOC	38'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	10:30	Reading 0.0 PPM
Time:	11:10	Reading 0.6 PPM
Time:	12:12	Reading 0.6 PPM
Time:		Reading PPM
Time:		Reading PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-41
Oversight: J. Baugh
Driller: Fred Borse

Date: 7-12-23
Job #: R23 104

1/2" Thermocouple pipe? ~~No~~ Yes
Thermocouple Length: 37.67

Ground Surface 0.0'

Heater Can
Schedule 80

Conductive HT Grout



Heater Can Length: 38.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	~~30~~	29	
VEW Stick-Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	~~0.5~~	5	
Bags of Silica	~~0.75~~	2	
Bags of Cement	~~2.25~~	4	
Bottom of Screen	13'		
Bags of #00 Sand	10.5		
Gallons of Limestone	10.5		
Bottom of #00 Sand	30		
Bottom of Heater Can	36		
Bottom of Borehole	36		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	38.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	7:30	Reading:	0.0 PPM
Time:	8:30	Reading:	0.0 PPM
Time:	9:30	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-42
Date: 7-8-23
Oversight: D Phillips
Job #: R23-104
Driller: F. Borge

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 48.67'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 40

Heater Can Length: 49 ft

Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"	22"	
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	7.5	1	
Bags of Silica	3.25	2	
Bags of Cement	10.75	4	
Bottom of Heater Can	47'		
Bottom of Borehole	47'	47'	

Post-Installation QC (to be performed 24hrs after Installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	49'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	11:00	Reading: 0.0	PPM
Time:	1:00	Reading: 0.0	PPM
Time:	3:50	Reading: 0.0	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes

Green/Green

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-43
Date: 7-7-23
Oversight:
Job #: R23-104
Driller: Fred . Dorsey



	Design	Constructed (fill out if different)	Notes
--Stick Up Height	24"	25"	
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.75		
Bags of Silica	2.5		
Bags of Cement	8.25		
Bottom of Heater Can	36'		
Bottom of Borehole	36'	36'	

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 37.67'

Heater Can Length: 38 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	38'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	7:00	Reading:	85 PPM
Time:	8:00	Reading:	85 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes: [redacted] yellow/yellow

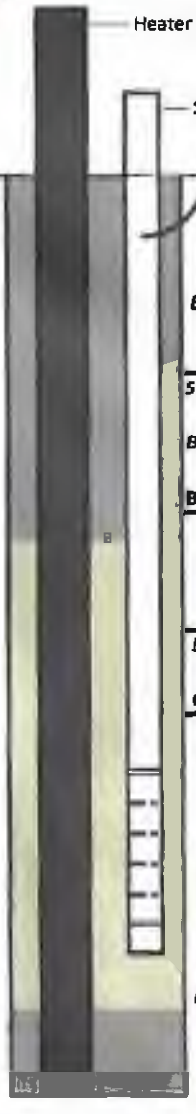
TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-44
Date: 09-11-23
Oversight: R. Rizzo
Job #: R23-104
Driller: Braden

	Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	No		
Thermocouple Length	58.67'		
Heater Stick Up Height	30"		
SIW Stick Up Height	18"		
Ground Surface	0.0'		
Conductive HT Grout			
Heater Can			
Schedule 80			
Heater Can Length	59.5'		
Heater Can Diameter	3'		
SIW			
Riser Length	51.5 ft		
Screen Length	2 ft		
Screen Material			
Stainless Steel			
Fiberglass			
Other:			
SIW Slot Size	10		
Screen Diameter	1"		
Installation Method			
Sonic			
Direct Push			
Hollow Stem Auger			
Mud Rotary			
Other:			
Conductive High Temp Grout			
Angle from Horizontal	90°		
Borehole Diameter	7"		
5 Gal Buckets of Graphite	2.2		
Bags of Silica	3		
Bags of Cement	10		
Top of #00 Sand	30'		
Bags of Sand	7.5		
Gallons of Limestone	7.5		
Top of Screen	50'		
Bottom of Screen	52'		
Bottom of #00 Sand	54'		
Bottom of Borehole	57'		



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC):	59.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 13:00	Reading: 0.0	PPM
Time: 14:45	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

Blue

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-45
Oversight:
Driller: F. Dorse

Date: 7-7-23
Job #: R23-104

1/2" Thermocouple pipe?
Thermocouple Length: 37.67'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 38.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"	24"	
VEW Stick-Up Height	18"	16"	
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.25		
Bottom of Screen	13'		
Bags of #00 Sand	10.5		
Gallons of Limestone	10.5		
Bottom of #00 Sand	30'		
Bottom of Heater Can	36'		
Bottom of Borehole	36'	36'	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 38.5' — Constructed:
Depth to bottom of well [ft bTOC]
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	10:00	Reading:	0.0 PPM
Time:	11:00	Reading:	0.0 PPM
Time:	12:00	Reading:	0.0 PPM
Time:	1:00	Reading:	0.0 PPM
Time:	2:00	Reading:	0.0 PPM

Notes:
yellow/yellow

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-46
Oversight: J. Baugh
Driller: Kelly Grant
Date: 9-26-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 58.67'

Ground Surface 0.0'

Conductive HT Grout

Heater Can
Schedule 80

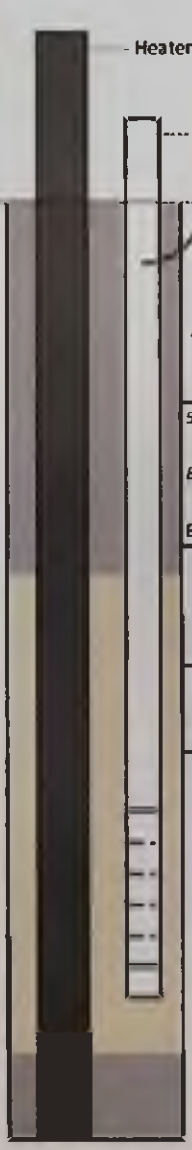
Heater Can Length: 59.5'
Heater Can Diameter: 3'

SIW
Riser Length: 51.5 ft
Screen Length: 2 ft
Screen Material
Stainless Steel
Fiberglass
Other:

SIW Slot Size: 10
Screen Diameter: 1"

Installation Method
Sonic
Direct Push
Hollow Stem Auger
Mud Rotary
Other:

Conductive High Temp Grout



	Design	Constructed (fill out if different)	Notes
Heater Stick Up Height	30"		
SIW Stick Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
5 Gal Buckets of Graphite	2.25		
Bags of Silica	3		
Bags of Cement	10		
Top of #00 Sand	30'		
Bags of Sand	7.5		
Gallons of Limestone	7.5		
Top of Screen	50'		
Bottom of Screen	52'		
Bottom of #00 Sand	54'		
Bottom of Borehole	57'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC]:	59.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 3:45	Readi	0.1 PPM
Time: 8:30	Readi	0.2 PPM
Time:	Readi	PPM
Time:	Readi	PPM
Time:	Readi	PPM

9-26
9-27

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-47
Date: 7-8-23
Oversight: D. Phillips
Job #: R23-104
Driller: E. Dorse

	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"	21"	
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.25		
Bags of Silica	1.75		
Bags of Cement	6		
Bottom of Heater Can	26'		
Bottom of Borehole	26'	26	

1/2" Thermocouple pipe?
Thermocouple Length: 27.67'

Ground Surface 0.0'

Heater Can — Conductive HT Grout

Schedule 40

Heater Can Length: 28 ft

Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	28'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	7:00	Reading:	0.0 PPM
Time:	8:55	Reading:	0.0 PPM
Time:	9:57	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:
Red/Red

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **H-48**
Date: 10-2-23
Oversight: J. Baugh
Job #: R23-104
Driller: K. Grant

1/2" Thermocouple pipe? No
Thermocouple Length: 27.67'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 28.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"		
VEW Stick-Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.25		
Bottom of Screen	13'		
Bags of #00 Sand	6.5		
Gallons of Limestone	6.5		
Bottom of #00 Sand	20'		
Bottom of Heater Can	25'		
Bottom of Borehole	26'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	28.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	9:00	Reading:	0.1 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **H-49**

Date: 10-03-23

Oversight: J. Baugh

Job #: R23-104

Driller: K. Grant

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	No			
Thermocouple Length	27.67'			
--Stick Up Height		54"		
Ground Surface	0.0'			
Heater Can	*Conductive HT Grout---*			
Schedule 40				
Angle from Horizontal		90°		
Borehole Diameter		6"		
Heater Can Length	28 ft			
Heater Can Diameter	3 in			
5 Gal Buckets of Graphite		1.25		
Bags of Silica		1.75		
Bags of Cement		6		
Bottom of Heater Can		26'		
Bottom of Borehole		26'		

Installation Method

Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	28'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 08:00	Reading: 0.0 PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-50
Date: 10-03-23
Oversight: J. Baugh
Job #: R23-104
Driller: K. Grant

1/3" Thermocouple pipe? No
Thermocouple Length: 27.6'

Ground Surface: 0.0'

Heater Can: Schedule 40

Conductive HT Grout--

Heater Can Length: 28 ft
Heater Can Diameter: 7 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	5"		
5 Gal Buckets of Graphite	1.25		
Bags of Silica	1.25		
Bags of Cement	6		
Bottom of Heater Can	28'		
Bottom of Borehole	28'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well (ft bTOC	28'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	10:45	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-51
Oversight: J. Baugh
Driller: K. Grant
Date: 10-04-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 27.67'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*---

Schedule 40

Heater Can Length: 28 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
~~Sonic~~
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
--Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.25		
Bags of Silica	1.75		
Bags of Cement	6		
Bottom of Heater Can	28		
Bottom of Borehole	26		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 28' — Constructed:
Depth to bottom of well [ft bTOC]
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 13:25	Reading: 0.0 PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HA-01
Date: 7-8-23
Oversight: D Phillips
Job #: R23-104
Driller: L. Franklin

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 28.71'

Ground Surface 0.0'

Heater Can
Schedule 80

Conductive HT Grout

Heater Can Length: 29.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"	24"	
VEW Stick-Up Height	18"	18"	
Angle from Horizontal	73°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3.5'		
5 Gal Buckets of Graphite	0.5	~2	
Bags of Silica	0.75	2	
Bags of Cement	2.25	3	
Bottom of Screen	13.5'	13.5	
Bags of #00 Sand	7		
Gallons of Limestone	7		
Bottom of #00 Sand	21'	21'	
Bottom of Heater Can	27'		
Bottom of Borehole	27'	27'	

Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well (ft bTOC)	29.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 3:00	Reading: 0.0	PPM
Time: 4:00	Reading: 0.0	PPM
Time: 4:23	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

62°

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **HA-02**

Date: 7-7-23

Oversight:

Job #: R23-104

Driller: C. Franklin

	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"	21	
VEW Stick-Up Height	18"	21	
Angle from Horizontal	62°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	4.5'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	14.5'		
Bags of #00 Sand	7.5		
Gallons of Limestone	7.5		
Bottom of #00 Sand	22.5'		
Bottom of Heater Can	29.5'		
Bottom of Borehole	29.5'	29.5'	

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 31.25'

Ground Surface 0.0'

Heater Can — Schedule 80

Conductive HT Grout

Heater Can Length: 32 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in



Installation Method

Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	32'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 3:30	Reading: 0.0	PPM
Time: 4:30	Reading: 0.0	PPM
Time: 7:00	Reading: 0.0	PPM
Time: 8:00	Reading:	PPM
Time:	Reading:	PPM

Notes:

73° orange

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-01A
Oversight: Jeff Stone
Driller: Cory Franklin

Date: 6/14/23
Job #: R23-104

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	[redacted]			
Thermocouple Length	59.17			
Heater Stick Up Height		30"	24"	
SIW Stick Up Height		18"		
Angle from Horizontal		78°		
Borehole Diameter		7"		
5 Gal Buckets of Graphite		2.25		
Bags of Silica		3		
Bags of Cement		10		
Top of #00 Sand		30'		
Bags of Sand		7.5		
Gallons of Limestone		7.5		
Top of Screen		50.5'		
Bottom of Screen		52.5'		
Bottom of #00 Sand		54.5'		
Bottom of Borehole		~~60'~~	58'	

Ground Surface 0.0'

Conductive HT Grout

Heater Can
Schedule 80

Heater Can Length: 60'
Heater Can Diameter: 3"

SIW
Riser Length: 51.5 ft
Screen Length: 2 ft
Screen Material
Stainless Steel
Fiberglass
Other:

SIW Slot Size: 10
Screen Diameter: 1"

Installation Method
(Sonic)
Direct Push
Hollow Stem Auger
Mud Rotary
Other:

Conductive High Temp Grout



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 60' — Constructed: ____
Depth to bottom of well [ft bTOC]:
if greater than or equal to 1ft less than designed alert the office
2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 2130	Reading: 0.0	PPM
Time: 3130	Reading: 0.0	PPM
Time: 4130	Reading: 0.0	PPM
Time: 0800	Reading: 0.0	PPM
Time: 0900	Reading: 0.0	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-01B
Oversight: Jeff Stone
Driller: Corey Franklin

Date: 6-18-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 87.67'

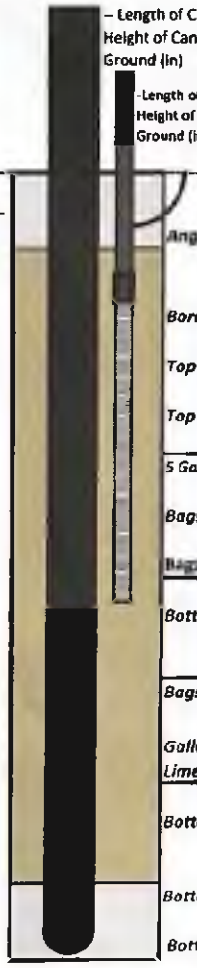
Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 91 ft
Heater Can Diameter: 3 in
Screen Length: 20' ft
Riser Length: 7 ft
Screen Diameter: 1 in

Installation Method
Direct Push
(Sonic)
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
– Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3.5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1' / 6"	3'	
Angle from Horizontal	35°		
Borehole Diameter	7"		
Top of #00 Sand	3'		
Top of Screen	5'		
5 Gal Buckets of Graphite	1		
Bags of Silica	1.5		
Bags of Cement	4.5		
Bottom of Screen	[redacted]	[redacted]	1
Bags of #00 Sand	28	26	
Gallons of Crushed Limestone	28	30	
Bottom of #00 Sand	76.5'		
Bottom of Heater Can	87.5'		
Bottom of Borehole	87.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	91'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 1630	Reading: 0.0	PPM
Time: 1130	Reading: 0.0	PPM
Time: 1230	Reading: 0.0	PPM
Time: 1130	Reading: 0.0	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Hold off till utilities verified

Well ID: HC-01C
Oversight: Bill Conlon
Driller: Cory

Date: 5-17-23 / 5-18-23
Job #: R23-104

1" Thermocouple pipe? NO
Thermocouple Length: 75.92'

Ground Surface 0.0'

Heater Can — Schedule 80

Conductive HT Grout

	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	48°	✓	
Borehole Diameter	7"		
Top of #00 Sand	2'		
Top of Screen	4'	4'	
5 Gal Buckets of Graphite	0.75	✓	
Bags of Silica	1	✓	
Bags of Cement	3.5	✓	
Bottom of Screen	17.5'	14'	
Bags of #00 Sand	33		
Gallons of Crushed Limestone	33		7 BUCKETS
Bottom of #00 Sand	67.5'		
Bottom of Heater Can	76		
Bottom of Borehole	76'		

Heater Can Length	79 ft
Heater Can Diameter	3 in
Screen Length	10 ft
Riser Length	58.2 ft
Screen Diameter	1 in

Installation Method

- Direct Push
- Sonic
- Hollow Stem Auger
- Mud Rotary
- Other _____

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well (ft bTOC	14'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft

Date	Depth to Grout (ft bgs)
5-17	

PID Log: Make/Model:

Time:	Reading: 0.0 PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM

Notes: SCREEN DROPPED AS PULLED OUT

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **HC-01D**
Oversight: Conlon
Driller: E. FRANKLIN

Date: 5-23-23 / 5-24/23
Job #: R23-104
13:45 START

1/2" Thermocouple pipe? YES
Thermocouple Length: 61.75'
MOVED FROM HC-3D

Ground Surface 0.0'

Heater Can — Conductive HT Grout — Schedule 80

Heater Can Length: 64.5 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 55 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other



	Design	Constructed (fill out if different)	Notes
– Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	66°		
Borehole Diameter	7"	✓	
Top of #00 Sand	2'		
Top of Screen	4'	4'	
5 Gal Buckets of Graphite	0.75	1	
Bags of Silica	1	1	
Bags of Cement	3	3	
Bottom of Screen	14'	14'	
Bags of #00 Sand	26.5	11	
Gallons of Crushed Limestone	26.5		5 BUCKETS
Bottom of #00 Sand	54.5'		
Bottom of Heater Can	62'		
Bottom of Borehole	62'	62'	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 64.5' — Constructed:
If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	5.0	5:23	Reading:	15.00 PPM
Time:	0.0		Reading:	12.02 PPM
Time:	0.0	5-24	Reading:	0.00 PPM
Time:			Reading:	PPM
Time:			Reading:	PPM

Notes: WORKED ON RIG JAW @ 14'4"

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 1
Release date: 6/14/23
Approved by:

Well ID: HC-01E
Oversight: J. Bangh
Driller: L. Franklin

Date: 6-6-23
Job #: R23-104

1/2" Thermocouple pipe? No
Thermocouple Length: 77.29'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout* — *Schedule 80*



Heater Can Length: 81.5 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 29 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

	Design	Constructed (fill out if different)	Notes
– Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1.5' / 6"	2.5	
Angle from Horizontal	22°		
Borehole Diameter	7"		
Top of #00 Sand	21.5'		
Top of Screen	~~24.5'~~	26.5	
5 Gal Buckets of Graphite	2.75		
Bags of Silica	3.75		
Bags of Cement	12		
Bottom of Screen	~~36.5'~~	36.5	
Bags of #00 Sand	14		
Gallons of Crushed Limestone	14		
Bottom of #00 Sand	61.5'		
Bottom of Heater Can	76.5'		
Bottom of Borehole	76.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	81.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 1
Release date: 6/14/23
Approved by:

Well ID: HC-02A
Oversight: Jeff Stone
Driller: Cory Franklin

Date: 6-15-23
Job #: R23-104

1/2" Thermocouple pipe?
Thermocouple Length: 57.17'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80



	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"	24	
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"	18	
Angle from Horizontal	78°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	13'		
Bags of #00 Sand	19		
Gallons of Crushed Limestone	19		
Bottom of #00 Sand	50.5'		
Bottom of Heater Can	57.5'		
Bottom of Borehole	57.5'		

Heater Can Length: 60 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 4.5 ft
Screen Diameter: 1 in

Installation Method
Direct Push
(Sonic)
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	60'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	14:00	Reading:	0.5 PPM
Time:	14:30	Reading:	0.6 PPM
Time:	8:00	Reading:	0.0 PPM
Time:	9:00	Reading:	0.0 PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-02B
Date: 6-19-23
Oversight: Jeff Stone
Job #: R23-104
Driller: Cory Frantum

1/2" Thermocouple pipe? No
Thermocouple Length: 87.67'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 91 ft
Heater Can Diameter: 3 in
Screen Length: 17.5 ft
Riser Length: 7 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3.5' / 30"	2.5	
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1' / 6"	2	
Angle from Horizontal	35°		
Borehole Diameter	7"		
Top of #00 Sand	3'		
Top of Screen	5'		
5 Gal Buckets of Graphite	1		
Bags of Silica	1.5		
Bags of Cement	4.5		
Bottom of Screen	22.5'		
Bags of #00 Sand	28	24	
Gallons of Crushed Limestone	28	20	
Bottom of #00 Sand	75.5'		
Bottom of Heater Can	87.5'		
Bottom of Borehole	87.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	91'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 12 pm	Reading: 0.0	PPM
Time: 1 pm	Reading: 0.0	PPM
Time: 2 pm	Reading: 0.0	PPM
Time: 3 pm	Reading: 0.0	PPM
Time: 4 pm	Reading: 0.0	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Hold off 1.11
Utilities verified

Well ID: HC-02C
Oversight: Bill Condon
Driller: Cory Franklin
Date: 5-18 / 5-20
Job #: R23-104

1/2" Thermocouple pipe?
Thermocouple Length: 75.92

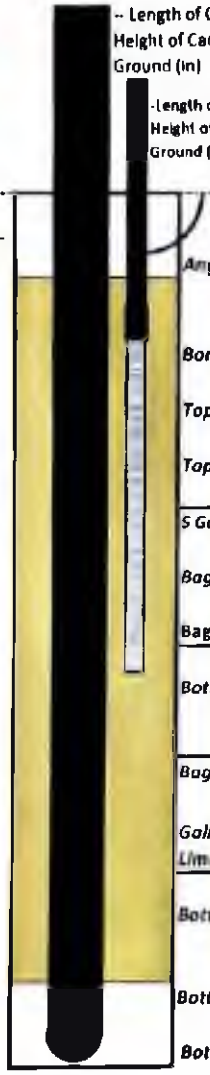
Ground Surface 0.0'

Heater Can — Schedule 80

Conductive HT Grout--

Heater Can Length	79 ft
Heater Can Diameter	3 in
Screen Length	13.5 ft
Riser Length	5.5 ft
Screen Diameter	1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other



	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	48°		
Borehole Diameter	7"	7"	
Top of #00 Sand	2'	2'	
Top of Screen	4'	4'	
5 Gal Buckets of Graphite	0.75		
Bags of Silica	1	✓	
Bags of Cement	3.5		
Bottom of Screen	17.5'	14'	
Bags of #00 Sand	33	✓	
Gallons of Crushed Limestone	33	✓	
Bottom of #00 Sand	67.5		
Bottom of Heater Can	76'		
Bottom of Borehole	76'	71.5'	

Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	79'	

If greater than or equal to 3ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 12:05	Reading: 0.0	PPM
Time: 17:00	Reading: 0.0	PPM
Time: 17:25	Reading: 0.0	PPM
Time: 5-20 / 0720	Reading: 0.0	PPM
Time: 0805	Reading: 0.0	PPM

Notes:

DRILLED TO DEPTH ON 5-19
RAN ON 5-19 - NO INSTALL/ WELDING
CLEAN OUT & INSTALL ON 5-20

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-02D
Oversight: J. Baugh
Driller: Cory

Date: 6-1-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 61.75'

Ground Surface 0.0'

Heater Can — Conductive HT Grout

Schedule 80

Heater Can Length: 54.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Riser Length: 5.5 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"		
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	66°		
Borehole Diameter	7"	7	
Top of #00 Sand	2'		
Top of Screen	4'	4'	
5 Gal Buckets of Graphite	0.75	1	
Bags of Silica	1	1	
Bags of Cement	3	3	
Bottom of Screen	14'	14	
Bags of #00 Sand	26.5	11	
Gallons of Crushed Limestone	26.5		5 BUCKETS
Bottom of #00 Sand	54.5'		
Bottom of Heater Can	62'		
Bottom of Borehole	62'	62	

Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	64.5'	

If greater than or equal to 3ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 13:00	Reading: 0.0	PPM
Time: 13:30	Reading: 0.0	PPM
Time: 14:05	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 1
Release date: 6/14/23
Approved by:

Well ID: HC-02E
Oversight: J. Baugh
Driller: C. Franklin
Date: 6-6-23
Job #: R23-104

1/2" Thermocouple pipe? Yes
Thermocouple Length: 77.29'

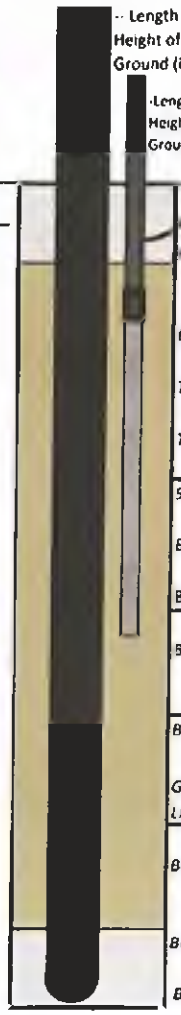
Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 81.5 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 29 ft
Screen Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	5' / 30"		
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1.5' / 6"	2.6	
Angle from Horizontal	22°		
Borehole Diameter	7"		
Top of #00 Sand	21.5'		
Top of Screen	~~24.5'~~	26.5	
5 Gal Buckets of Graphite	2.75		
Bags of Silica	3.75		
Bags of Cement	12		
Bottom of Screen	~~34.5'~~	36.5	
Bags of #00 Sand	14		
Gallons of Crushed Limestone	14		
Bottom of #00 Sand	61.5'		
Bottom of Heater Can	76.5'		
Bottom of Borehole	76.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	81.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	2:00	Reading:	0.0 PPM
Time:	3:58	Reading:	0.0 PPM
Time:	4:04	Reading:	0.0 PPM
Time:	9:05	Reading:	0.0 PPM
Time:	10:15	Reading:	0.0 PPM
Notes:	11:55		0.2

6-6-23

6-7-23

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SI

Well ID: HC-03A

Date: 6/16/23 - 6/18/23

Oversight: Jeff Stam

Job #: R23-104

Driller: Cory Franklin

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	No			
Thermocouple Length	59.17'			
Heater Stick Up Height		30"		
~~SIW Stick Up Height~~		~~18"~~		not installed
Ground Surface 0.0'				
Conductive HT Grout				
Heater Can				
Schedule 80				
Angle from Horizontal		78°		
Heater Can Length	60'			
Heater Can Diameter	3'			
Borehole Diameter		7"		
5 Gal Buckets of Graphite		2.25		
Bags of Silica		3		
Bags of Cement		10		
~~Top of #00 Sand~~		~~50'~~		
~~Bags of Sand~~		~~7.5~~		
~~Gallons of Limestone~~		~~75~~		
Top of Screen		50.5'		
Bottom of Screen		52.5'		
Bottom of #00 Sand		54.5'		
Bottom of Borehole		57.5'		

not installed

SIW
- Riser Length: ~~53.5~~ ft
- Screen Length: ~~2~~ ft
- Screen Material
  - Stainless Steel
  - Fiberglass
  - Other:
- SIW Slot Size: ~~10~~
- Screen Diameter: ~~1"~~

Installation Method
- (Sonic)
- Direct Push
- Hollow Stem Auger
- Mud Rotary
- Other:

Conductive High Temp Grout

Grout to surface
3 Batches

Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC):	60'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 10:30	Reading: [illegible]	PPM
Time: 11:30	Reading: 0.0	PPM
Time: 3:00	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:
3 Batches Grout

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-03B
Date: 6-20-23
Oversight: Jeff Stone
Job #: R23-104
Driller: Cory Fountain

1/2" Thermocouple pipe? No
Thermocouple Length: 87.67'

Ground Surface 0.0'

Heater Can — Schedule 80

Conductive HT Grout—

	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	(3.5') / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1' / 6"	3'	
Angle from Horizontal	35°		
Borehole Diameter	7"		
Top of #00 Sand	3'		
Top of Screen	5'		
5 Gal Buckets of Graphite	1		
Bags of Silica	1.5		
Bags of Cement	4.5		
Bottom of Screen	~~22.5'~~	23'	
Bags of #00 Sand	28	24	
Gallons of Crushed Limestone	28	30	
Bottom of #00 Sand	76.5'		
Bottom of Heater Can	87.5'		
Bottom of Borehole	87.5'		

Heater Can Length	91	ft
Heater Can Diameter	3	in
Screen Length	20 ~~17.5~~	ft
Riser Length	6 ~~7~~	ft
Screen Diameter	1	in

Installation Method
Direct Push
(Sonic)
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after Installation)

1) Confirm well is free of grout — Design: Depth to bottom of well [ft bTOC]: 91' — Constructed:
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 9:45	Reading: 0.0	PPM
Time: 10:46	Reading: 0.0	PPM
Time: 11:30	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Hold off till Utilities verified

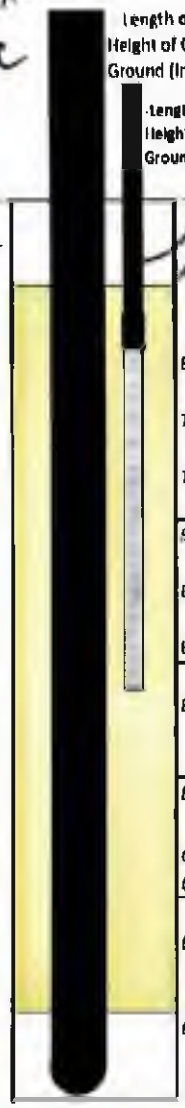
Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-03C
Oversight: Condon
Driller: FRANKLIN

Date: 5-20 / 5-21-23
Job #: R23-104

45' REPLACE [redacted] 1-C

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?		Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3' / 30"	
Thermocouple Length	75.92'	Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"	
Ground Surface	0.0'			
Heater Can	Conductive HT Grout---	Angle from Horizontal	48°	
Schedule 80		Borehole Diameter	7"	
		Top of #00 Sand	2'	
		Top of Screen	4'	4'
Heater Can Length	79 ft	5 Gal Buckets of Graphite	0.75	
Heater Can Diameter	3 in	Bags of Silica	1	
Screen Length	13.5 ft	Bags of Cement	3.5	
Riser Length	5.5 ft	Bottom of Screen	~~17.5~~	14'
Screen Diameter	1 in			
Installation Method		Bags of #00 Sand	33	
Direct Push		Gallons of Crushed Limestone	33	
Sonic		Bottom of #00 Sand	67.5'	
Hollow Stem Auger		Bottom of Heater Can	76'	
Mud Rotary		Bottom of Borehole	76'	76'
Other				



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: Depth to bottom of well (ft bTOC): 79' — Constructed: _____
If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 20		Reading: 16.00	PPM
Time: 00		Reading: 16.25	PPM
Time: 00		Reading: 16.40	PPM
Time: 00		Reading: 07.30	PPM
Time:		Reading:	PPM

Notes: PLACE 76 TC IN HC-3C TO PICK UP MISSED TC IN HC 1-C

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **HC-03D**

Date: 6-2-23

Oversight: Conco

Job #: R23-104

Driller: C. Franklin

HC-3C HAS TC TO NO MOVED 1d

1/2" Thermocouple pipe? NO

Thermocouple Length: 61.75'

Ground Surface 0.0'

Heater Can — *Schedule 80*

Conductive HT Grout



	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	66°		
Borehole Diameter	7"	7	
Top of #00 Sand	2'		
Top of Screen	4'	4	
5 Gal Buckets of Graphite	0.75	1	
Bags of Silica	1	1	
Bags of Cement	3	3	
Bottom of Screen	14'	14	
Bags of #00 Sand	26.5	11	
Gallons of Crushed Limestone	26.5	5 BUCKETS	
Bottom of #00 Sand	54.5		
Bottom of Heater Can	62'		
Bottom of Borehole	62'	62	

Heater Can Length: 64.5 ft

Heater Can Diameter: 3 in

Screen Length: 10 ft

Riser Length: 55 ft

Screen Diameter: 1 in

Installation Method

Direct Push

Sonic

Hollow Stem Auger

Mud Rotary

Other

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: — Constructed:

Depth to bottom of well (ft bTOC: 64.5'

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft

Date	Depth to Grout (ft bgs)

PID Log: Make/Model

Time:	8:45 2m	Reading:	0.0 PPM
Time:	4:00	Reading:	0.0 PPM
Time:	0720	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-03E
Oversight: J. Baugh
Driller: L Franklin

Date: 6-13-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 77.29'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80



Heater Can Length: 81.5 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 29 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1.5' / 6"	2'6"	
Angle from Horizontal	22°		
Borehole Diameter	7"		
Top of #00 Sand	~~24.5'~~ [redacted]	[redacted]	24'6"
Top of Screen	26.5'	26'5"	
5 Gal Buckets of Graphite	2.75		
Bags of Silica	3.75		
Bags of Cement	12		
Bottom of Screen	34.5'	36'6"	
Bags of #00 Sand	14		
Gallons of Crushed Limestone	14		
Bottom of #00 Sand	61.5'		
Bottom of Heater Can	76.5'		
Bottom of Borehole	76.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	81.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 8:05	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

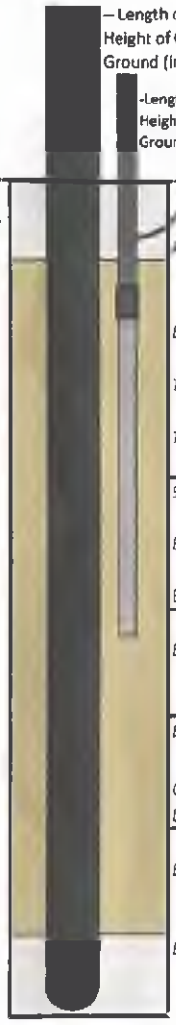
Well ID: HC-04A
Oversight: J. Baugh
Driller: C. Franklin
Date: 6-26-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 57.17'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"	24	
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"	18	
Angle from Horizontal	78°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	13'		
Bags of #00 Sand	19		
Gallons of Crushed Limestone	19		
Bottom of #00 Sand	50.5'		
Bottom of Heater Can	57.5'		
Bottom of Borehole	57.5'	58.0	

Heater Can Length	60	ft
Heater Can Diameter	3	in
Screen Length	10	ft
Riser Length	4.5	ft
Screen Diameter	1	in

Installation Method

Direct Push
(Sonic)
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after Installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	60'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	12:10 pm	Reading:	0.0 PPM
Time:	1:15 pm	Reading:	0.0 PPM
Time:	1:30 pm	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-04B
Oversight: D Billips
Driller: C Franklin
Date: 7-9-23
Job #: R23-104

1/2" Thermocouple pipe?
Thermocouple Length: 87.67'

Ground Surface: 0.0'

Heater Can — Conductive HT Grout

Schedule 80



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3.5' / 30"	3.6	
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1' / 6"		
Angle from Horizontal	35°		
Borehole Diameter	7"		
Top of #00 Sand	3'		
Top of Screen	5'		
5 Gal Buckets of Graphite	1		
Bags of Silica	1.5		
Bags of Cement	4.5		
Bottom of Screen	22.5'		
Bags of #00 Sand	28		
Gallons of Crushed Limestone	28		
Bottom of #00 Sand	76.5'		
Bottom of Heater Can	87.5'		
Bottom of Borehole	87.5'	87.5	

Heater Can Length	91	ft
Heater Can Diameter	3	in
Screen Length	17.5	ft
Riser Length	7	ft
Screen Diameter	1	in

Installation Method

Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: Depth to bottom of well (ft bTOC): 91' — Constructed:
If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	8:30	Reading:	0.0 PPM
Time:	9:30	Reading:	0.0 PPM
Time:	10:30	Reading:	0.0 PPM
Time:	11:50	Reading:	0.0 PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Hold off till Utilities verified

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-04C
Oversight: CONDOR
Driller: C. FRANKLIN
Date: 5.21.23 / 5.22.23
Job #: R23-104

1/2" Thermocouple pipe?
Thermocouple Length

Ground Surface 0.0'

Heater Can
Conductive HT Grout

	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3' / 36"		
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	48°	✓	
Borehole Diameter	7"		
Top of #00 Sand	2'		
Top of Screen	4'	4'	
5 Gal Buckets of Graphite	0.75		
Bags of Silica	1		
Bags of Cement	3.5		
Bottom of Screen	~~17.5'~~	14'	
Bags of #00 Sand	33		
Gallons of Crushed Limestone	33		
Bottom of #00 Sand	67.5'		
Bottom of Heater Can	76'		
Bottom of Borehole	76'		

Heater Can Length	79	ft
Heater Can Diameter	3	in
Screen Length	~~13.5~~ 10'	ft
Riser Length	5.5	ft
Screen Diameter	1	in

Installation Method
Direct Push
~~Sonic~~
Hollow Stem Auger
Mud Rotary
Other

Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	79'	

If greater than or equal to 3ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 13:30	Reading: 2.0	PPM
Time: 13:48	Reading: 0.0	PPM
Time: 14:20	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

FINISHED INSTALL

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-04D
Date: 6-2-23
Oversight: J. Baugh
Job #: R23-104
Driller: C. Franklin

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 61.75

Ground Surface 0.0'

Heater Can — Conductive HT Grout---
Schedule 80

Heater Can Length: 64.8 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 5.5 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other



	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	60°		
Borehole Diameter	7"	7	
Top of #00 Sand	2'		
Top of Screen	4'	4	
5 Gal Buckets of Graphite	0.75	1	
Bags of Silica	1	1	
Bags of Cement	3	3	
Bottom of Screen	14'	14	
Bags of #00 Sand	26.5	11	
Gallons of Crushed Limestone	26.5	5	BUCKETS
Bottom of #00 Sand	54.5		
Bottom of Heater Can	62'		
Bottom of Borehole	62'	62	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	~~64.5'~~	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	10:00 6-2	Reading:	0.0 BZ PPM
Time:	10:25	Reading:	0.0 PPM
Time:	10:40	Reading:	00 PPM
Time:	11:00	Reading:	0.0 BZ PPM
Time:		Reading:	PPM

Notes: PID SPIKE IN SOIL < 600 PPM = 0.0 IN BZ BZT JUST SUSTAINED.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 1
Release date: 6/14/23
Approved by:

Well ID: HC-04E
Oversight: J. Baugh
Driller: C. FranKlin

Date: 6-24-23
Job #: R23-104

1/2" Thermocouple pipe? No
Thermocouple Length: 77.29'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 81.5 ft
Heater Can Diameter: 3 in
Screen Length: ~~10~~ 9 ft
Riser Length: 29 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1.5' / 6"		
Angle from Horizontal	22°		
Borehole Diameter	7"		
Top of #00 Sand	21.5'		
Top of Screen	26.5'	26.6'	
5 Gal Buckets of Graphite	2.5		
Bags of Silica	3.5		
Bags of Cement	11		
Bottom of Screen	34.5'	31.6'	
Bags of #00 Sand	15		
Gallons of Crushed Limestone	15		
Bottom of #00 Sand	61.5'		
Bottom of Heater Can	76.5'		
Bottom of Borehole	76.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

Depth to bottom of well [ft bTOC	Design	Constructed
	81.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 9:36 am	Reading: 0.0	PPM
Time: 10:30 am	Reading: 0.0	PPM
Time: 11:30 am	Reading: 0.0	PPM
Time: 1:00 pm	Reading: 0.0	PPM
Time: 2:30 pm	Reading: 0.0	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-05A
Date: 6-28-23
Oversight: J. Baugh
Job #: R23-104
Driller: C. Franklin

1/2" Thermocouple pipe? No
Thermocouple Length 57.17'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout---*

Schedule 80

Heater Can Length 60 ft
Heater Can Diameter 3 in
Screen Length 10 ft
Riser Length 4.5 ft
Screen Diameter 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"	24"	
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"	18	
Angle from Horizontal	78°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	13'		
Bags of #00 Sand	19		
Gallons of Crushed Limestone	19		
Bottom of #00 Sand	50.5'		
Bottom of Heater Can	57.5'		
Bottom of Borehole	57.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	60'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 9:03 am	Reading 2.5	PPM
Time: 9:30 am	Reading 1.0	PPM
Time: 10:00 am	Reading 3.8	PPM
Time: 1:30 pm	Reading 3.5	PPM
Time: 2:00 pm	Reading 0.0	PPM

Notes:

TERRATHERM ERM
a Cascade Company

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **HC-05B**
Oversight: Jeff Stone
Driller: Cory F.

Date: 7-11-25
Job #: R23-104

1/2" Thermocouple pipe? ~~No~~
Thermocouple Length: 87.67'

Ground Surface 0.0'

Heater Can
Schedule 80

Conductive HT Grout

Heater Can Length: 91 ft
Heater Can Diameter: 3 in
Screen Length: 17.5 ft
Riser Length: 7 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	~~3.5~~ / 30"	3	
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1'~~6~~"	1'.10"	
Angle from Horizontal	35°		
Borehole Diameter	7"		
Top of #00 Sand	3'		
Top of Screen	5'		
5 Gal Buckets of Graphite	1	1	
Bags of Silica	1.5	2	
Bags of Cement	4.5	4	
Bottom of Screen	~~25~~	27	
Bags of #00 Sand	~~28~~	24	
Gallons of Crushed Limestone	~~28~~	30	
Bottom of #00 Sand	76.5'		
Bottom of Heater Can	87.5'		
Bottom of Borehole	87.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	91'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	11:30	Reading:	0.0 PPM
Time:	12:30	Reading:	0.0 PPM
Time:	1:00	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:
35°

TERRATHERM

ISTD Heater Boring Construction Detail

Hold off till Utilities verified

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-05C
Date: 5.22
Oversight: Conor
Job #: R23-104
Driller: C. FRANKLIN

1/2" Thermocouple pipe?
Thermocouple Length: 92'

Ground Surface 0.0'

Heater Can
Schedule 80

Conductive HT Grout

Heater Can Length: 79 ft
Heater Can Diameter: 3 in
Screen Length: 10' ~~13'~~ ft
Riser Length: 6' 5.5 ft
Screen Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3' / 30"		
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	48°		
Borehole Diameter	7"		
Top of #00 Sand	2'		
Top of Screen	4'	4'	
5 Gal Buckets of Graphite	0.75		
Bags of Silica	1		
Bags of Cement	3.5		
Bottom of Screen	~~19.5~~	14'	
Bags of #00 Sand	33		
Gallons of Crushed Limestone	33		
Bottom of #00 Sand	67.5'		
Bottom of Heater Can	76'		
Bottom of Borehole	76'		

Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	79'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	11:30	Reading: 0.0	PPM BZ
Time:	12:03	Reading: 0.0	PPM BZ
Time:	12:38	Reading: 0.0	PPM
Time:	13:00	Reading: 0.0	PPM BZ
Time:		Reading:	PPM

Notes: 0.0 in BZ BUT SOIL & BORING READING < 500ppm

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-05D
Oversight: J. Baugh
Driller: C.

Date: 6-3-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 61.75'

Ground Surface 0.0'

Heater Can
Schedule 80

Conductive HT Grout

Heater Can Length: 64.5 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 54 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"		
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	66°		
Borehole Diameter	7"	7"	
Top of #00 Sand	2'		
Top of Screen	4'	4'	
5 Gal Buckets of Graphite	0.75	1	
Bags of Silica	1	1	
Bags of Cement	3	3	
Bottom of Screen	14'	14	
Bags of #00 Sand	26.5	11	
Gallons of Crushed Limestone	26.5		5 buckets
Bottom of #00 Sand	54.5'		
Bottom of Heater Can	62'		
Bottom of Borehole	62'	62	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	64.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	0745	Reading:	0.0 PPM
Time:	0810	Reading:	0.0 PPM
Time:	0900	Reading:	0.0 PPM
Time:	0925	Reading:	0.0 PPM
Time:	0945	Reading:	0.0 PPM

Notes: PID SPIKE IN SOIL & JGB BORING 31.0 PPM

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 1
Release date: 6/14/23
Approved by:

Well ID: HC-05E
Oversight: J. Baugh
Driller: L. Frankl.1
Date: 6-25-23
Job #: R23-104

1/2" Thermocouple pipe? NO
Thermocouple Length: 77.29'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 81.5 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 29 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1.5' / 6"		
Angle from Horizontal	22°		
Borehole Diameter	7"		
Top of #00 Sand	21.5'		
Top of Screen	26.5'		
5 Gal Buckets of Graphite	2.5		
Bags of Silica	3.5		
Bags of Cement	11		
Bottom of Screen	~~34.5'~~	36.5'	
Bags of #00 Sand	15		
Gallons of Crushed Limestone	15		
Bottom of #00 Sand	61.5'		
Bottom of Heater Can	76.5'		
Bottom of Borehole	76.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	81.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 4:30	Reading: 0.0 PPM
Time: 5:30	Reading: 0.0 PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM

Notes:

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-06A
Date: 7/6/23
Oversight: Josh Stowe
Job #: R23-104
Driller: Casey Franklin

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	20			
Thermocouple Length	59.17'			
Heater Stick Up Height		30"	22"	
SIW Stick Up Height		18"	~ 12"	
Ground Surface 0.0'				
Conductive HT Grout		Angle from Horizontal		78°		
Heater Can				
Schedule 80				
Heater Can Length	60'	Borehole Diameter	7'		
Heater Can Diameter	3"			
		5 Gal Buckets of Graphite	2.25		
SIW				
Riser Length	51.5 ft	Bags of Silica	3		
Screen Length	2 ft			
Screen Material		Bags of Cement	10		
Stainless Steel				
Fiberglass		Top of #00 Sand	30'		
Other:				
		Bags of Sand	7.5		
SIW Slot Size	10			
Screen Diameter	1"	Gallons of Limestone	7.5		
Installation Method				
Sonic		Top of Screen	50.5'		
Direct Push				
Hollow Stem Auger				
Mud Rotary		Bottom of Screen	52.5'		
Other:				
Conductive High Temp Grout		Bottom of #00 Sand	54.5'		
		Bottom of Borehole	57.5'		



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: — Constructed:
Depth to bottom of well (ft bTOC): 60'
If greater than or equal to 1ft less than designed alert the office
2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 14:10 pm	Reading: 0.0	PPM
Time: 15:00 pm	Reading: 0.0	PPM
Time: 8145	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-06B
Oversight: J. Baugh
Driller: L. Franklin

Date: 7-11-23
Job #: R23-104

1/2" Thermocouple pipe? Yes
Thermocouple Length: 87.67'

Ground Surface 0.0'

Heater Can: Schedule 80

Conductive HT Grout---

Heater Can Length: 91 ft
Heater Can Diameter: 3 in
Screen Length: 17.5 ft
Riser Length: 7 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
– Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	30"	4	
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1.5'		
Angle from Horizontal	35°		
Borehole Diameter	7"		
Top of #00 Sand	3'		
Top of Screen	5'		
5 Gal Buckets of Graphite	1		
Bags of Silica	1.5		
Bags of Cement	4.5		
Bottom of Screen	22.5'		
Bags of #00 Sand	28		
Gallons of Crushed Limestone	28		
Bottom of #00 Sand	76.5'		
Bottom of Heater Can	87.5'		
Bottom of Borehole	87.5'	87.5	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	91'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 7:30	Reading: 0.0	PPM
Time: 8:30	Reading: 0.0	PPM
Time: 9:30	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Hold off till utilities verified

Well ID: HC-06C
Oversight: Cody
Driller: C. FRANKLIN
Date: 5-22-23 / 5-23-23
Job #: R23-104

1/2" Thermocouple pipe?
Thermocouple Length: [redacted] ~~75.92~~

Ground Surface 0.0'

Heater Can — Schedule 80

Conductive HT Grout



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3' / 30"		
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	48°	✓	
Borehole Diameter	7"		
Top of #00 Sand	2'		
Top of Screen	4'	4'	
5 Gal Buckets of Graphite	0.75		
Bags of Silica	1		
Bags of Cement	3.5		
Bottom of Screen	17.5	14'	
Bags of #00 Sand	33		
Gallons of Crushed Limestone	33		
Bottom of #00 Sand	67.5		
Bottom of Heater Can	76'		
Bottom of Borehole	76'		

Heater Can Length: 79 ft
Heater Can Diameter: 3 in
Screen Length: 10' ~~13.5~~ ft
Riser Length: 6' ~~6.5~~ ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	79'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model

Time: 10:15	5:20	Reading: 0.0	PPM
Time: 10:40	5:22	Reading: 0.0	PPM
Time: 9:00	5:23	Reading: 0.0	PPM
Time: 9:45		Reading: 0.0	PPM
Time: 12:10		Reading: 0.0	PPM

Notes: SET CAP @ 76' ~ 10:30
216 JAW BLED OFF / FISHING
~~WAITED~~ 9:30 - 11:00

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **HC-06D**
Date: 6.4.23
Oversight: J Ramos
Job #: R23-104
Driller: C Franklin

1/2" Thermocouple pipe? ~~No~~
Thermocouple Length: 61.5'

Heater Can Length: 64.5 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 5.5 ft
Screen Diameter: 1 in

Installation Method
~~Direct Push~~
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	66°		
Borehole Diameter	7"		
Top of #00 Sand	2'		
Top of Screen	4'		
5 Gal Buckets of Graphite	0.75	1	
Bags of Silica	1	1	
Bags of Cement	3	3	
Bottom of Screen	14'		
Bags of #00 Sand	20	1.5	
Gallons of Crushed Limestone	20		5 Buckets
Bottom of #00 Sand	54.5'		
Bottom of Heater Can	62'		
Bottom of Borehole	62'	62	

Post-Installation QC (to be performed 24hrs after installation)

1) **Confirm well is free of grout**

	Design	Constructed
Depth to bottom of well (ft bTOC	~~64.5'~~	

If greater than or equal to 1ft less than designed alert the office

2) **Confirm grout plug reaches ground surface**

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	Reading: -1.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 1
Release date: 6/14/23
Approved by:

Well ID: **HC-06E**
Oversight: J. Baugh
Driller: C. Franklin

Date: 6-25-23
Job #: R23-104

1/2" Thermocouple pipe? **No**
Thermocouple Length: 77.29'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80



	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1.5' / 6"		
Angle from Horizontal	22°		
Borehole Diameter	7"		
Top of #00 Sand	21.5'		
Top of Screen	26.5'		
5 Gal Buckets of Graphite	2.5		
Bags of Silica	3.5		
Bags of Cement	11		
Bottom of Screen	~~34.5'~~	36.7'	
Bags of #00 Sand	15		
Gallons of Crushed Limestone	15		
Bottom of #00 Sand	61.5'		
Bottom of Heater Can	76.5'		
Bottom of Borehole	76.5'		

Heater Can Length: 81.5 ft
Heater Can Diameter: 3 in

Screen Length: ~~10~~ 8 ft
Riser Length: 29 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 81.5' — Constructed:
Depth to bottom of well (ft bTOC)
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 12:30 pm	Reading: 0.0	PPM
Time: 1:30 pm	Reading: 0.0	PPM
Time: 2:30 pm	Reading: 0.0	PPM
Time: 3:20 pm	Reading: 0.0	PPM
Time:	Reading:	PPM

Notes:

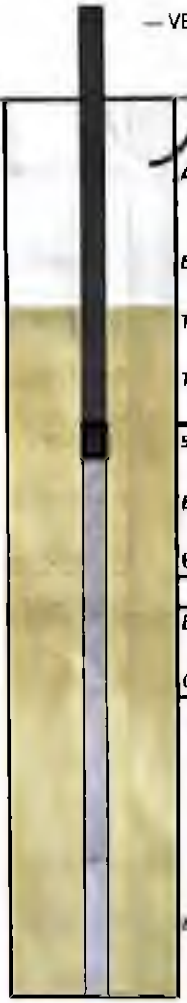
TERRATHERM

VEW Boring Construction Detail

Revision #: 1
Release date: 6/27/23
Approved by: EH

Well ID: V-1
Date: 7-7-23
Oversight:
Driller: C. Franklin
Job #: R23-104

	Design	Constructed (fill out if different)	Notes
VEW Stick-Up Height	18"	46	
Ground Surface	0.0		
Angle from Horizontal	22°		
Borehole Diameter	6"		
Top of #00 Sand	13.5'		
Top of Screen	26.5'		
5 Gal Buckets of Graphite	1		
Bags of Silica	1.25		
Bags of Cement	4		
Bags of #00 Sand	9.5		
Gallons of Limestone	9.5		
Bottom of Sand and Screen	41.5'		
Bottom of Borehole	41.5'	41.5	



Riser Length: 28 ft
Screen Length: 15 ft
Screen Diamter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	41.5 ft	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	9:40	Reading:	0.0 PPM
Time:	10:40	Reading:	0.0 PPM
Time:	11:40	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

VEW Boring Construction Detail

Revision #: 1
Release date: 6/27/23
Approved by: EH

Well ID: V-2
Date: 7-7-23
Oversight:
Job #: R23-104
Driller: C. Franklin

	Design	Constructed (fill out if different)	Notes
— VEW Stick-Up Height	18"	24	
Angle from Horizontal	22°		
Borehole Diameter	6"		
Top of #00 Sand	13.5'		
Top of Screen	26.5'		
5 Gal Buckets of Graphite	1		
Bags of Silica	1.25		
Bags of Cement	4		
Bags of #00 Sand	9.5		
Gallons of Limestone	9.5		
Bottom of Sand and Screen	41.5'		
Bottom of Borehole	41.5'	41.5	

Ground Surface 0.0'

Conductive HT Grout—

Riser Length	28	ft
Screen Length	15	ft
Screen Diamter	1	in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	43 ft	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	1:00	Reading:	0.0 PPM
Time:	2:00	Reading:	0.0 PPM
Time:	3:00	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

VEW Boring Construction Detail

Revision #: 1
Release date: 6/27/23
Approved by: EH

Well ID: V-3
Oversight: D PHILLIPS
Driller: C FRANKLIN
Date: 7-8-23
Job #: R23-104

	Design	Constructed (fill out if different)	Notes
VEW Stick-Up Height	18"	~~24~~	32"
Ground Surface 0.0			
Angle from Horizontal	22°	22°	
Borehole Diameter	6"	6"	
Top of #00 Sand	13.5'		
Top of Screen	26.5'		
5 Gal Buckets of Graphite	1		
Bags of Silica	1.25		
Bags of Cement	4		
Bags of #00 Sand	9.5	11	
Gallons of Limestone	9.5	2 BUCKETS	
Bottom of Sand and Screen	41.5'		
Bottom of Borehole	41.5'	41' 4"	

Conductive HT Grout

29'

Riser Length	~~28~~	ft
Screen Length	15	ft
Screen Diamter	1	in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well (ft bTOC	43 ft	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	7:00	Reading:	0.0 PPM
Time:	8:53	Reading:	0.0 PPM
Time:	9:57	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes: Angle Well

TERRATHERM

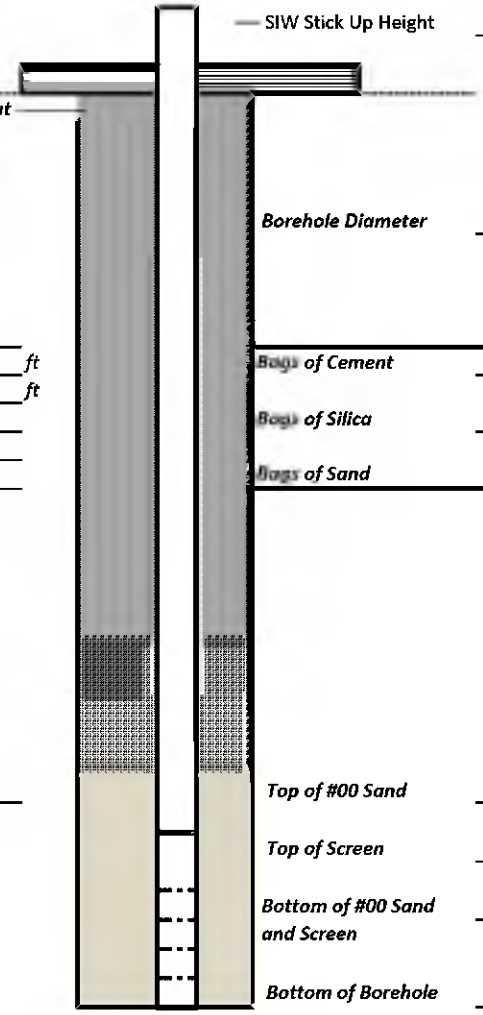
SIW Boring Construction Detail

Revision #:____0____
Release date:_04/02/24_
Approved by:____DS / EH____

Well ID **S-1 (SB-04)** Date 4/2/2024

Oversight Danny Saak Job # R23-104

Driller Spencer Williams



	Design	Constructed (fill out if different)	Notes
SIW Stick Up Height	18"		
Borehole Diameter	6"		
Bags of Cement	14.50	14.5	
Bags of Silica	4.75	4.75	
Bags of Sand	2.0	2	
Top of #00 Sand	51	51	
Top of Screen	53	53	
Bottom of #00 Sand and Screen	55	55	
Bottom of Borehole	55	55	

SIW

Riser	1" CS	
Riser Length	55.5	*ft*
Screen Length	2	*ft*
Screen Material	SS	
SIW Slot Size	10	
Screen Diameter	2"	

Installation Method

Sonic
Direct Push
Hollow Stem Auger
Mud Rotary
Other: _____

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout Design Constructed

Depth to bottom of well [ft bTOC]: 57.5 _____

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

SIW Boring Construction Detail

Revision #:____0____
Release date:_04/02/24_
Approved by:____DS / EH____

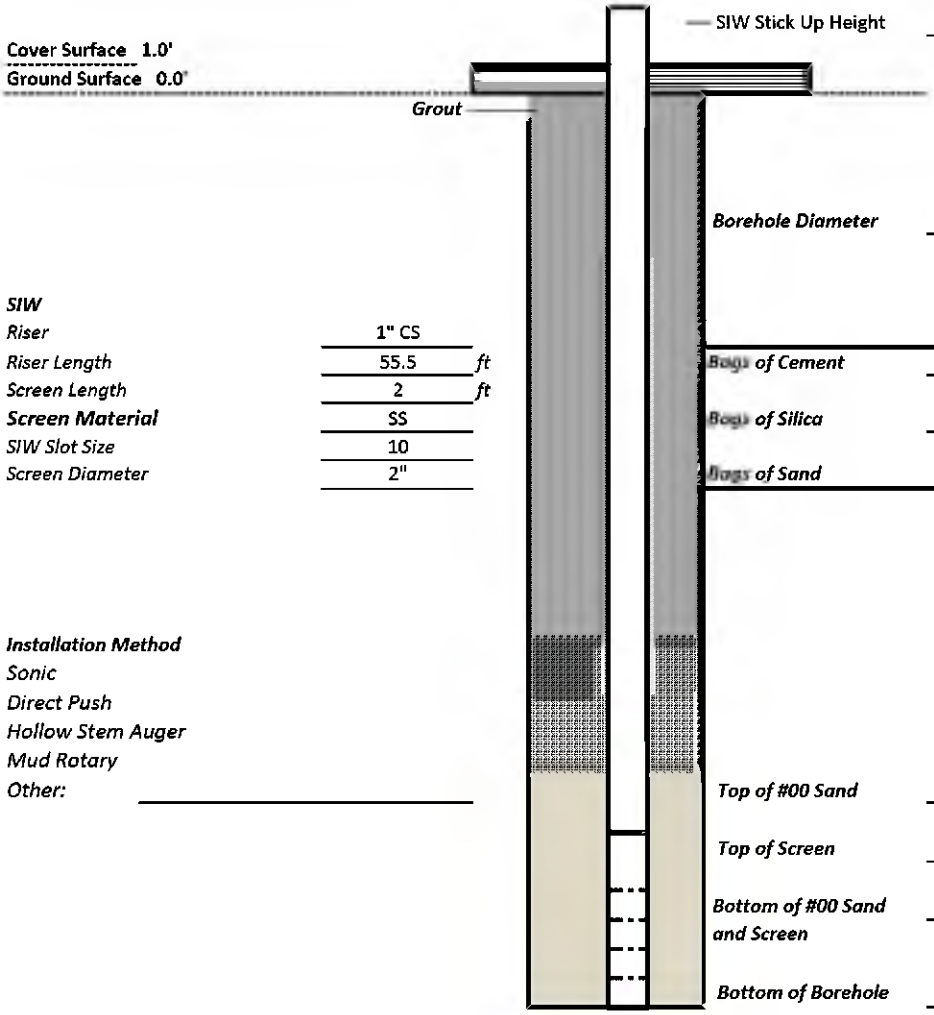
Well ID **S-2 (SB-06)**

Date 4/2/2024

Oversight Danny Saak

Job # R23-104

Driller Spencer Williams



	Design	Constructed (fill out if different)	Notes
SIW Stick Up Height	18"		
Borehole Diameter	6"		
Bags of Cement	14.50	14.5	
Bags of Silica	4.75	4.75	
Bags of Sand	2.0	2	
Top of #00 Sand	51	51	
Top of Screen	53	53	
Bottom of #00 Sand and Screen	55	55	
Bottom of Borehole	55	55	

SIW

Riser	1" CS	
Riser Length	55.5	*ft*
Screen Length	2	*ft*
Screen Material	SS	
SIW Slot Size	10	
Screen Diameter	2"	

Installation Method

Sonic
Direct Push
Hollow Stem Auger
Mud Rotary
Other: _____

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout Design: 57.5 Constructed: _____

Depth to bottom of well [ft bTOC]:

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

Multi-Phase Extraction Well
Construction Detail

Hold off till utilities verified

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: M-1
Oversight: D. Phillips
Driller: C. Franklin
Date: 7-22-23
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

Ground Surface 0.0'

HT Grout

Carbon Steel
Other:

Riser Length: 20 ft
Screen Length: 65 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size: 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:

HT Grout



	Design	Constructed (fill out if different)	Notes
Stick Up Height	48"	60"	
Angle from Horizontal	38°		
Top of #00 Sand	14		
Top of Screen	16		
Bags of #00 Sand	4	40	
Bags of Cement	65	6	
Bags of Silica	17	8	
Borehole Diameter	8		
Bottom of Sand	81		
Bottom of Screen	81		
Sump Length	2'		
Bottom of Sump	83		
Bottom of Borehole	83'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]:	87'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 9:00	Reading: 0.0	PPM
Time: 9:30	Reading: 0.0	PPM
Time: 10:00	Reading: 0.0	PPM
Time: 11:19	Reading: 8.1	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM
a Cascade Company

Multi-Phase Extraction Well Construction Detail

Hold off till utilities verified

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: M-2
Oversight: D. Phillips
Driller: L. Franklin
Date: 7-23-23
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

Ground Surface 0.0'

HT Grout

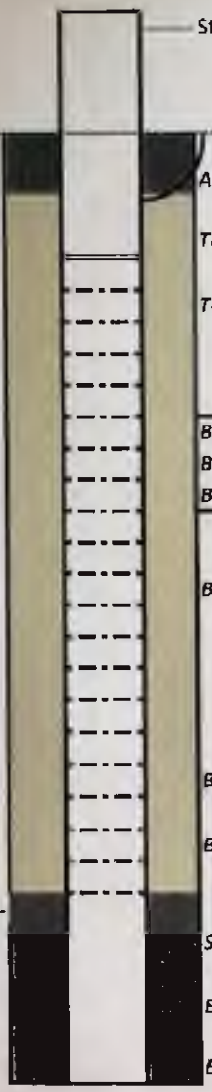
Casing Material
Carbon Steel
Other:

Riser Length 20 ft
Screen Length 65 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	48"		
Angle from Horizontal	38°		
Top of #00 Sand	14'		
Top of Screen	16'		
Bags of #00 Sand	~~42~~	38	
Bags of Cement	6.5	6	
Bags of Silica	2	2	
Borehole Diameter	8"		
Bottom of Sand	81'		
Bottom of Screen	81'		
Sump Length	2'		
Bottom of Sump	83'		
Bottom of Borehole	83'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]	87'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 1400	Reading:	0.0	PPM
Time: 1430	Reading:	0.0	PPM
Time: 1500	Reading:	0.0	PPM
Time: 1600	Reading:	0.0	PPM
Time:	Reading:		PPM

Notes:

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: M-3
Oversight: D. Phillips
Driller: C. Franklin
Date: 7-24-23
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

Ground Surface 0.0'

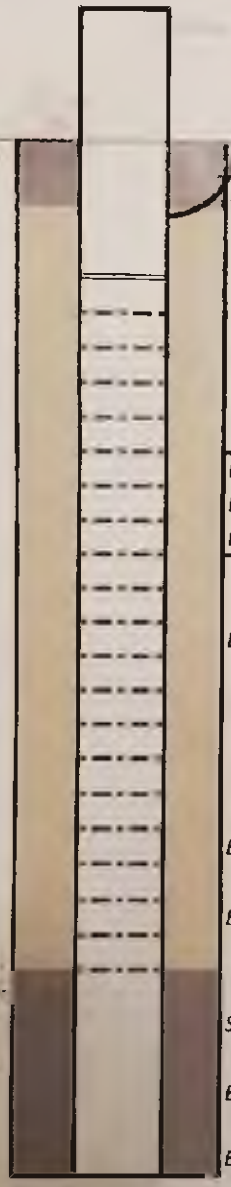
Casing Material
Carbon Steel
Other:

Riser Length: 20 ft
Screen Length: 65 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size: 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	48"		
Angle from Horizontal	38°		
Top of #00 Sand	14'		
Top of Screen	16'		
Bags of #00 Sand	42		X
Bags of Cement	6.5		
Bags of Silica	2		
Borehole Diameter	8"		
Bottom of Sand	81		
Bottom of Screen	81		
Sump Length	2'		
Bottom of Sump	83'		
Bottom of Borehole	83'		

Post-Installation QC (to be performed 24hrs after installation)

	Design	Constructed
1) Confirm well is free of grout		
Depth to bottom of well [ft bTOC]	87'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	8:30 am	Reading:	0.0 PPM
Time:	9:30 am	Reading:	0.0 PPM
Time:	10:30 am	Reading:	0.0 PPM
Time:	11:30 am	Reading:	0.0 PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Hold off till utilities verified

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: M-4
Date: ~~7~~ 7-21-23
Oversight: D. Phillips
Driller: C Franklin
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

Ground Surface 0.0'

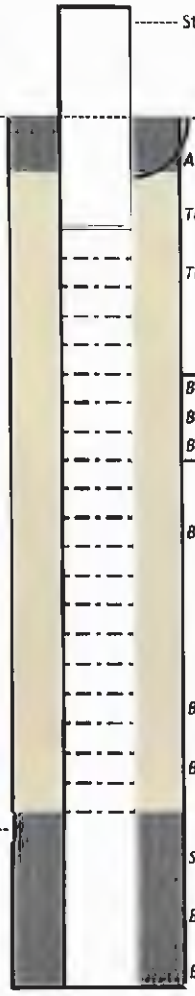
Casing Material
Carbon Steel
Other:

Riser Length: 20 ft
Screen Length: 65 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size: 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	~~48~~	44	
Angle from Horizontal	38°		
Top of #00 Sand	14'		
Top of Screen	16'		
Bags of #00 Sand	~~42~~	~~32~~	36
Bags of Cement	6.5		
Bags of Silica	2		
Borehole Diameter	8"		
Bottom of Sand	81'		
Bottom of Screen	81'		
Sump Length	2'		
Bottom of Sump	83'		
Bottom of Borehole	83'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC]:	87'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	8:30 am	Reading:	0.0 PPM
Time:	9:30 am	Reading:	0.8 PPM
Time:	10:30 am	Reading:	0.8 PPM
Time:	11:30 am	Reading:	0.8 PPM
Time:		Reading:	PPM

Notes:

38°

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: M-5
Oversight: J. Baugh
Driller: Fred Borge
Date: 7-19-23
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

Ground Surface 0.0'

HT Grout

Casing Material
Carbon Steel
Other

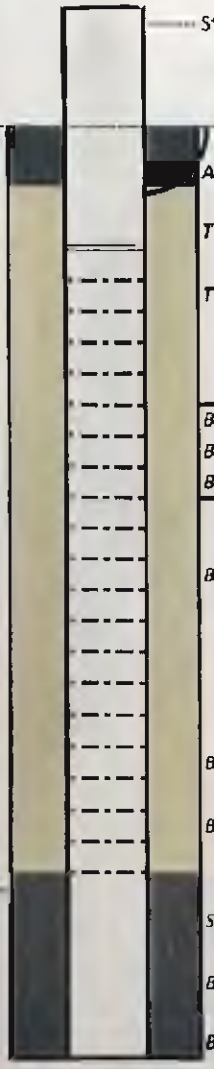
Riser Length: 6 ft
Screen Length: 17 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size: 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:

HT Grout



	Design	Constructed (fill out if different)	Notes
Stick Up Height	30"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	12	10	
Bags of Cement	1.25	1.25	
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	20'		
Bottom of Screen	20'		
Sump Length	2'		
Bottom of Sump	22'		
Bottom of Borehole	22'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC]	25'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout (ft bgs)

PID Log: Make/Model

Time:	7:10am	Reading:	0.0 PPM
Time:	8:30am	Reading:	0.0 PPM
Time:	9:48am	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: M-6
Date: 7-23-23
Oversight: R. Bills
Driller: F. Parse
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

Ground Surface 0.0'

HT Grout

Casing Material
Carbon Steel
Other:

Riser Length 6 ft
Screen Length 27 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:

HT Grout

	Design	Constructed (fill out if different)	Notes
Stick Up Height	36"		
Angle from Horizontal	90'		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	18.25	18	
Bags of Cement	1.25	1	
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	30'		
Bottom of Screen	30'		
Sump Length	2'		
Bottom of Sump	32'		
Bottom of Borehole	32'		

Post-Installation QC (to be performed 24hrs after Installation)

1) Confirm well is free of grout — Design: 35' — Constructed: _____
Depth to bottom of well [ft bTOC]:
if greater than or equal to 1ft less than designed alert the office
2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	9:00	Reading:	0.0 PPM
Time:	9:30	Reading:	0.0 PPM
Time:	10:00	Reading:	0.0 PPM
Time:	10:30	Reading:	0.0 PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: M-7
Date: 9-5-23
Oversight: J. Baugh
Driller: Brandon
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

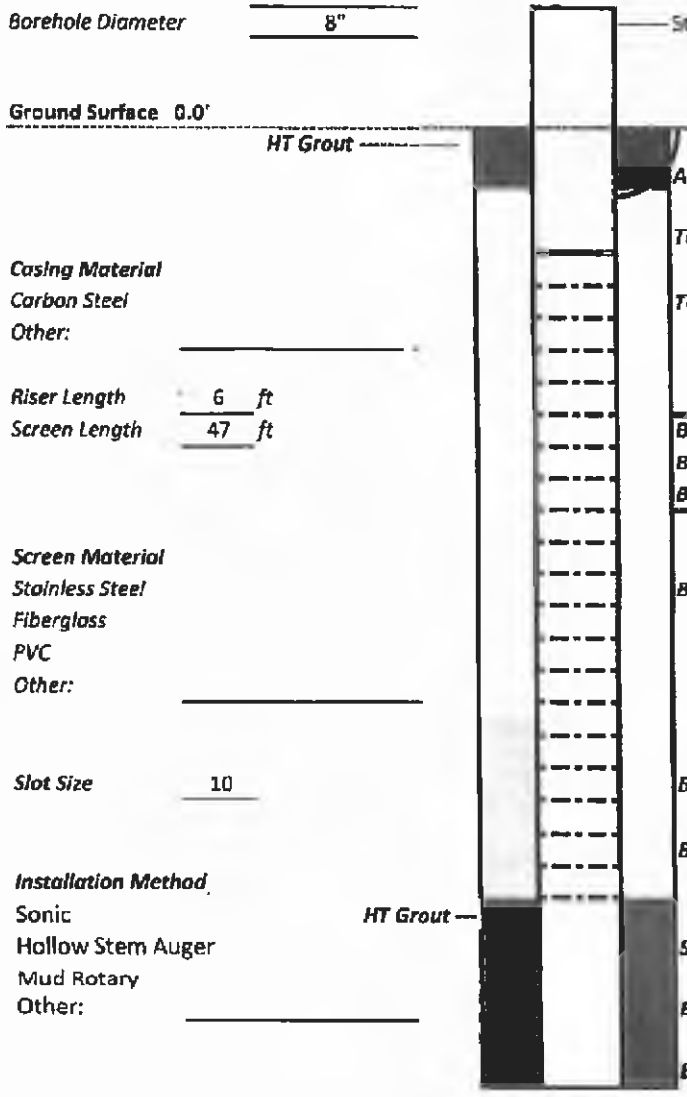
Casing Material
Carbon Steel
Other:

Riser Length: 6 ft
Screen Length: 47 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size: 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	36"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	30.75		
Bags of Cement	1.25		
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	50'		
Bottom of Screen	50'		
Sump Length	2'		
Bottom of Sump	52'		
Bottom of Borehole	52'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 55' — Constructed: _____
If greater than or equal to 1ft less than designed alert the office
2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 4:09	Reading: 0.0	PPM
Time:	Reading:	PPM
Time: 7:45	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

9-5-23
9-6-23

Notes:

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: M-8
Date: 09-12-23
Oversight: R. RAMOS
Driller: Branden GRIFFAS
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

Ground Surface 0.0'

HT Grout

Casing Material
Carbon Steel
Other:

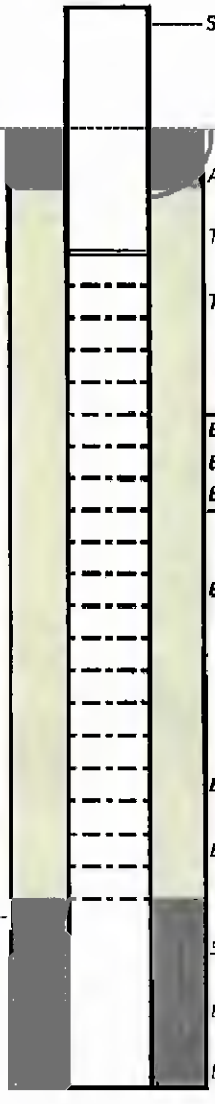
Riser Length: 6 ft
Screen Length: 47 ft (53)

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size: 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:

HT Grout



	Design	Constructed (fill out if different)	Notes
Stick Up Height	36"	24"	
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	30.75		
Bags of Cement	1.25		
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	50'		
Bottom of Screen	50'		
Sump Length	2'		
Bottom of Sump	52'		
Bottom of Borehole	52'	51'6	

Post-Installation QC (to be performed 24hrs after installation) ***PID Log: Make/Model:***

1) Confirm well is free of grout — Design: 55' — Constructed:
Depth to bottom of well [ft bTOC]:
if greater than or equal to 1ft less than designed alert the office
2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

Time:	10:10	Reading:	0.1 PPM
Time:	11:15	Reading:	0.1 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: M-9
Date: 09-19-23
Oversight: R. RAMOS
Driller: B. GRIFFAS
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

Ground Surface 0.0

HT Grout

Casing Material
Carbon Steel
Other:

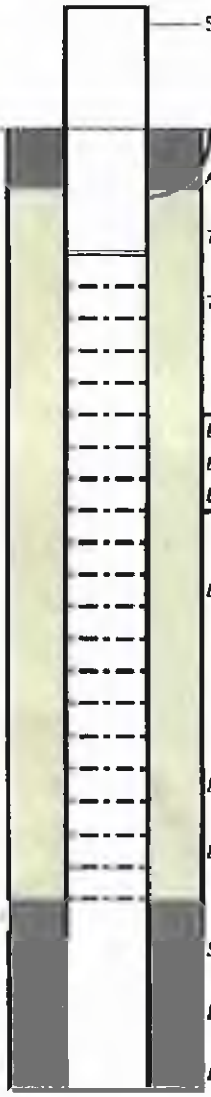
Riser Length: 6 ft
Screen Length: 47 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size: 10

~~*Installation Method*~~
Sonic
Hollow Stem Auger
Mud Rotary
Other:

HT Grout



	Design	Constructed (fill out if different)	Notes
Stick Up Height	30"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	30.75		
Bags of Cement	1.25		
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	50'		
Bottom of Screen	50'		
Sump Length	2'		
Bottom of Sump	52'		
Bottom of Borehole	52'		

Post-Installation QC (to be performed 24hrs after installation) *PID Log: Make/Model:*

	Design	Constructed
1) Confirm well is free of grout		
Depth to bottom of well [ft bTOC]:	55'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

Time: 07:55	Reading: 0.1	PPM
Time: 09:00	Reading: 0.1	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: M-10
Date: 09-21-23
Oversight: R. RAMOS
Driller: K - GARRET
Job #: R23-104

		Design	Constructed (fill out if different)	Notes
Well Diameter	4"			
Borehole Diameter	8"			
Stick Up Height		36"		
Ground Surface	0.0'			
HT Grout				
Angle from Horizontal		90°		
Top of #00 Sand		1'		
Top of Screen		3'		
Bags of #00 Sand		40.75		
Bags of Cement		1.25		
Bags of Silica		0.5		
Borehole Diameter		8"		
Bottom of Sand		66'		
Bottom of Screen		66'		
Sump Length		2'		
Bottom of Sump		68'		
Bottom of Borehole		68'		



Casing Material
Carbon Steel
Other:

Riser Length: 6 ft
Screen Length: 63 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size: 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout
Depth to bottom of well [ft bTOC]: Design 71' Constructed
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 10:00	Reading: 0.0	PPM
Time: 11:45	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

Construction Detail

Release date: 5/12/23
Approved by: SL

Well ID: M-11

Date: 09-21-23 / 9-22-23

Oversight: R. RAMOS / D. PHILLIPS

Driller: E. GARRET

Job #: R23-104

	Design	Constructed (fill out if different)	Notes
Well Diameter	4"		
Borehole Diameter	8"		
Stick Up Height	36"		
Ground Surface 0.0'			
HT Grout			
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	30.75		
Bags of Cement	1.25		
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	50'		
Bottom of Screen	50'		
Sump Length	2'		
Bottom of Sump	52'		
Bottom of Borehole	52'		

Casing Material: Carbon Steel / ~~Other~~

Riser Length: 6 ft

Screen Length: 47 ft

Screen Material: ~~Stainless Steel~~ / ~~Other~~

PVC

Other: _____

Slot Size: 20

Installation Method

Sonic

Hollow Stem Auger

Mud Rotary

Other: _____

HT Grout ---

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]:	55'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 10:30	Reading: 0.0	PPM
Time: 15:30	Reading: 0.0	PPM
Time: 8:00	Reading: 0.0	PPM
Time: 9:30	Reading: 0.0	PPM
Time: 10:45	Reading: 0.0	PPM

Notes:

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: M-12
Date: 10-04-23
Oversight: J. Baugh
Driller: K. Grant
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

Ground Surface 0.0'

HT Grout

Casing Material
Carbon Steel
Other:

Riser Length 6 ft
Screen Length 17 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:

HT Grout

	Design	Constructed (fill out if different)	Notes
Stick Up Height	36"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	12		
Bags of Cement	1.25		
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	20'		
Bottom of Screen	20'		
Sump Length	2'		
Bottom of Sump	22'		
Bottom of Borehole	22'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]:	25'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	10:30	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

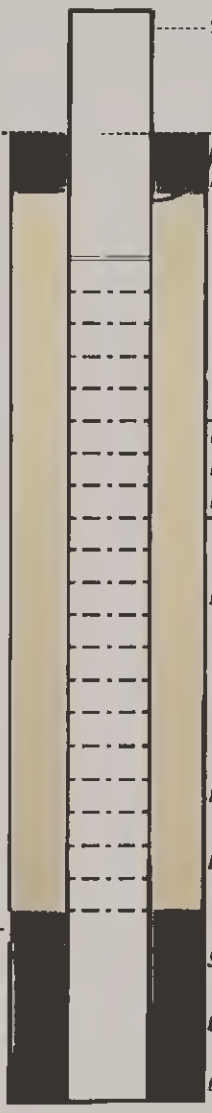
TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: M-13
Date: 9-26-23
Oversight: J. Burgh
Driller: Kelly Grant
Job #: R23-104

		Design	Constructed (fill out if different)	Notes
Well Diameter	4"			
Borehole Diameter	8"			
------- Stick Up Height		36"		
Ground Surface 0.0'				
HT Grout ----------				
Angle from Horizontal		90°		
Top of #00 Sand		1'		
Casing Material				
Carbon Steel				
Other:				
Top of Screen		3'		
Riser Length	6 ft			
Screen Length	17 ft			
Bags of #00 Sand		12		
Bags of Cement		1.25		
Bags of Silica		0.5		
Screen Material				
Stainless Steel				
Fiberglass				
PVC				
Other:				
Borehole Diameter		8"		
Slot Size	10			
Bottom of Sand		20'		
Bottom of Screen		20'		
Installation Method				
Sonic				
HT Grout ---				
Hollow Stem Auger				
Sump Length		2'		
Mud Rotary				
Other:				
Bottom of Sump		22'		
Bottom of Borehole		22'		



Post-Installation QC (to be performed 24hrs after installation) *PID Log: Make/Model:*

	Design	Constructed			
1) Confirm well is free of grout			Time: 1:35	Reading: 0.0	PPM
Depth to bottom of well [ft bTOC].	25'		Time:	Reading:	PPM
if greater than or equal to 1ft less than designed alert the office			Time:	Reading:	PPM
2) Confirm grout plug reaches ground surface			Time:	Reading:	PPM
repeat daily until depth to grout is 0ft bgs			Time:	Reading:	PPM

Date	Depth to Grout [ft bgs]

Notes:

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: M-14
Date: 9-25-23
Oversight: J. Baugh
Driller: K. Grant
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

Ground Surface 0.0'

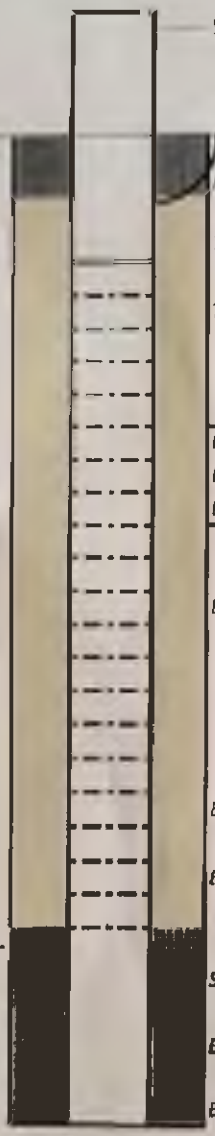
Casing Material
Carbon Steel
Other:

Riser Length: 6 ft 6
Screen Length: 47 ft 50

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size: 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	36"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	30.75		
Bags of Cement	1.25		
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	50		
Bottom of Screen	50'		
Sump Length	2'		
Bottom of Sump	52'		
Bottom of Borehole	52'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]	55'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	9:30	Reading	0.1 PPM
Time:	10:30	Reading	0.2 PPM
Time:		Reading	PPM
Time:		Reading	PPM
Time:		Reading	PPM

Notes:

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Well ID: M-15

Oversight: J. Baugh

Driller: K. Grade

Date: 8-30-23

Job #: R23-004

Well Diameter 4"

Borehole Diameter 8"

Ground Surface 0.0'

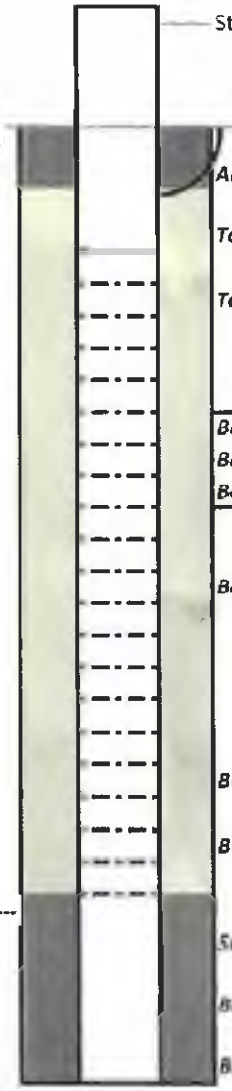
Casing Material
Carbon Steel
Other

Riser Length 6 ft
Screen Length 27 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other

Slot Size 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other



	Design	Constructed (fill out if different)	Notes
Stick Up Height	36"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	18.25		
Bags of Cement	1.25		
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	30'		
Bottom of Screen	30'		
Sump Length	2'		
Bottom of Sump	32'		
Bottom of Borehole	32'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 35' — Constructed: _____

Depth to bottom of well [ft bTOC]:

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 11:28	Reading: 0.5	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **M-16**
Date: 7-22-23
Oversight: D. Phillips
Driller: F. Dorse
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

Ground Surface 0.0'
HT Grout

Casing Material
Carbon Steel
Other:

Riser Length: 6 ft
Screen Length: 27 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size:

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	2'		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	18.2	18	
Bags of Cement	1.25		
Bags of Silica	0.5	0.5	
Borehole Diameter	8"		
Bottom of Sand	30'		
Bottom of Screen	30'		
Sump Length	2'		
Bottom of Sump	32'		
Bottom of Borehole	32'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well (ft bTOC):	35'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 8:00	Reading: 0.0	PPM
Time: 9:11	Reading: 0.0	PPM
Time: 10:20	Reading: 0.0	PPM
Time: 11:19	Reading: 0.0	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM
a Cascade Company

Temperature and Pressure Monitoring Point Construction Detail

Hold off till Utilities verified

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: T-1
Oversight: J. Bauch
Driller: Cory Franklin

Date: 7-19-23
Job # R23-104

Pipe Diameter TMP: 1.5"
PMP: 1"
Borehole Diameter: 6"

Ground Surface 0.0'

HT Grout

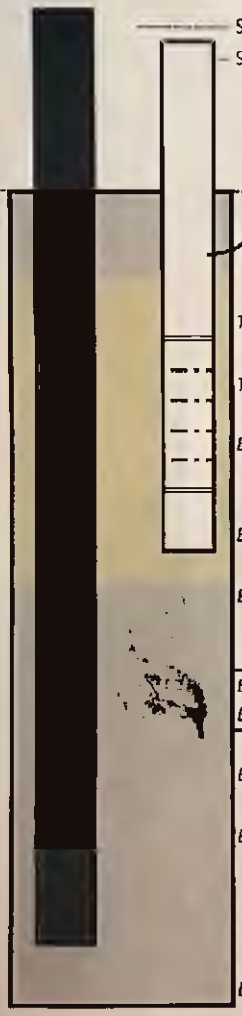
~~*Casing Material*~~
Carbon Steel
~~*Other:*~~

TMP Pipe Length 84.5'
PMP Riser Length 7.5'
PMP Screen Length ~~5~~ 2'

Screen Material
Stainless Steel
Other:

Slot Size 10

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up (TMP)	42"	42	
Stick Up (PMP)	30"		
Angle from Horizontal	38°		
Top of #00 Sand	3'		
Top of PMP Screen	5'		
Bags of #00 Sand	~~2.75~~	3	
Bottom of PMP Screen	~~8~~	7	
Bottom of #00 Sand	10'		
Bags of Cement	~~21.5~~	12	
Bags of Silica	~~6.75~~	3	
Borehole Diameter	6"		
Bottom of TMP Well	81'		
Bottom of Borehole	81'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of TMP [ft bTOC]	84.5'	
Depth to bottom of PMP [ft bTOC]:	10.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP [ft bgs]	Depth to Grout, PMP [ft bgs]

PID Log: Make/Model:

Time: 7:30 am	Reading: 0.0	PPM
Time: 8:30 am	Reading: 0.0	PPM
Time: 9:00 am	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

Temperature and Pressure Monitoring Point Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: T-2

Oversight: J. Bang

Driller: Cory Franklin

Hold Off till Utilities Verified

Date: 7-19-23 / 7-20-23

Job # R23-104

	Design	Constructed (fill out if different)	Notes
Stick Up (TMP)	42	44	
Stick Up (PMP)	40	38	
Angle from Horizontal	38°		
Top of #00 Sand	3'		
Top of PMP Screen	5'		
Bags of #00 Sand	2.75	3	
Bottom of PMP Screen	7'	7'	
Bottom of #00 Sand	10		
Bags of Cement	21.5		
Bags of Silica	6.75		
Borehole Diameter	6"		
Bottom of TMP Well	81'		
Bottom of Borehole	81'		

Pipe Diameter
TMP: 1.5"
PMP: 1"
Borehole Diameter: 6"

Ground Surface 0.0'

HT Grout

Casing Material
Carbon Steel
Other: _____

TMP Pipe Length 84.5'
PMP Riser Length 7.5'
PMP Screen Length 2'

Screen Material
Stainless Steel
Other: _____

Slot Size 10

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other: _____



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of TMP [ft bTOC]:	84.5'	
Depth to bottom of PMP [ft bTOC]:	10.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP [ft bgs]	Depth to Grout, PMP [ft bgs]

PID Log: Make/Model:

Time: 14:00	Reading: 0.0	PPM
Time: 15:00	Reading: 0.0	PPM
Time: 9:00 am	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

Temperature and Pressure Monitoring Point Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: T-3

Date: 7-11-23

Oversight: J. Baugh

Driller: Fred Borsc

Job # R23-104

Pipe Diameter TMP: 1.5"
PMP: 1"
Borehole Diameter: 6"

Ground Surface 0.0'

Casing Material
Carbon Steel
Other:

TMP Pipe Length 23.5'
PMP Riser Length 5'
PMP Screen Length 2'

Screen Material
Stainless Steel
Other:

Slot Size 10

Installation Method
Direct Push
(Sonic)
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up (TMP)	30"	30	
Stick Up (PMP)	24"	24"	
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of PMP Screen	3'		
Bags of #00 Sand	2.5		
Bottom of PMP Screen	5'		
Bottom of #00 Sand	7'		
Bags of Cement	4.75		
Bags of Silica	1.5		
Borehole Diameter	6"		
Bottom of TMP Well	21'		
Bottom of Borehole	21'	21	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of TMP [ft bTOC]:	23.5'	
Depth to bottom of PMP [ft bTOC]:	7'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP [ft bgs]	Depth to Grout, PMP [ft bgs]

PID Log: Make/Model:

Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

Temperature and Pressure Monitoring Point Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: T-4

Date: 4-8-23

Oversight: R. Ramos

Driller: Kelly

Job # R23-104

Pipe Diameter TMP: 1.5"
PMP: 1"
Borehole Diameter: 6"

Ground Surface 0.0'

HT Grout-----

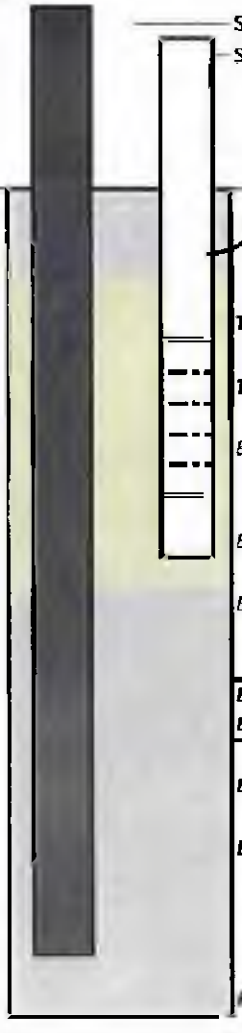
Casing Material
Carbon Steel
Other:

TMP Pipe Length 43.5'
PMP Riser Length 5'
PMP Screen Length 2'

Screen Material
Stainless Steel
Other:

Slot Size 10

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up (TMP)	30"		
Stick Up (PMP)	24"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of PMP Screen	3'		
Bags of #00 Sand	2.5		
Bottom of PMP Screen	5'		
Bottom of #00 Sand	7'		
Bags of Cement	10.5		
Bags of Silica	3.25		
Borehole Diameter	6"		
Bottom of TMP Well	41'		
Bottom of Borehole	41'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of TMP [ft bTOC]:	43.5'	
Depth to bottom of PMP [ft bTOC]:	7'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP [ft bgs]	Depth to Grout, PMP [ft bgs]

PID Log: Make/Model

Time: 1140	Reading: 0.2	PPM
Time: 14:35	Reading: 0.1	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

Temperature and Pressure Monitoring Point Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: T-5

Date: 09-20-23

Oversight: R. RAMOS

Driller: B. GRIFFAS

Job # R23-104

	Design	Constructed (fill out if different)	Notes
Pipe Diameter TMP: 1.5"			
PMP: 1"			
Borehole Diameter: 6"			
Stick Up (TMP)	30"		
Stick Up (PMP)	24"		
Ground Surface	0.0'		
HT Grout			
Angle from Horizontal	90°		
Casing Material: Carbon Steel			
Other:			
TMP Pipe Length	69.5		
PMP Riser Length	5'		
PMP Screen Length	2'		
Top of #00 Sand	1'		
Top of PMP Screen	3'		
Bags of #00 Sand	2.5		
Bottom of PMP Screen	5'		
Screen Material: Stainless Steel			
Other:			
Bottom of #00 Sand	7'		
Slot Size	10		
Bags of Cement	18		
Bags of Silica	5.75		
Borehole Diameter	6"		
Bottom of TMP Well	67'		
Bottom of Borehole	67'		

Installation Method: Direct Push; Sonic; Hollow Stem Auger; Mud Rotary; Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of TMP [ft bTOC]:	69.5'	
Depth to bottom of PMP [ft bTOC]:	7'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP [ft bgs]	Depth to Grout, PMP [ft bgs]

PID Log: Make/Model:

Time: 09:15	Reading: 0.0	PPM
Time: 10:05	Reading: 0.3	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

TERRATHERM

Temperature and Pressure Monitoring Point Construction Detail

Revision # 0
Release date: 5/1/23
Approved by: S

Well ID **T-6**

Oversight J. Bough

Driller

Date 8-28-23

Job # R23-104

		Design	Constructed (fill out if different)	Notes
Pipe Diameter TMP:	1.5"	---- Stick Up (TMP)	30"		
PMP:	1"	-- Stick Up (PMP)	24"		
Borehole Diameter:	6"			
Ground Surface 0.0'				
HT Grout-----		*Angle from Horizontal*	90°		
Casing Material				
Carbon Steel				
Other:		*Top of #00 Sand*	1'		
TMP Pipe Length	33.5'	*Top of PMP Screen*	3'		
PMP Riser Length	3'			
PMP Screen Length	2'	*Bags of #00 Sand*	2.5		
		Bottom of PMP Screen	5'		
Screen Material				
Stainless Steel		*Bottom of #00 Sand*	7'		
Other:				
		Bags of Cement	7.75		
Slot Size	10	*Bags of Silica*	2.5		
Installation Method		*Borehole Diameter*	6"		
Direct Push		*Bottom of TMP Well*	31'		
Sonic				
Hollow Stem Auger				
Mud Rotary				
Other:		*Bottom of Borehole*	31'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of TMP [ft bTOC]:	33.5'	
Depth to bottom of PMP [ft bTOC]:	7'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP [ft bgs]	Depth to Grout, PMP [ft bgs]

PID Log: Make/Model

Time: 418	Reading: 0.0 PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM

Notes:

TERRATHERM

Temperature and Pressure Monitoring Point Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: T-7
Oversight: R. Ramos.
Driller: Kelly

Date: 05-10-23
Job # R23-104

	Design	Constructed (fill out if different)	Notes
Stick Up (TMP)	30"		
Stick Up (PMP)	24"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of PMP Screen	3'		
Bags of #00 Sand	2.5		
Bottom of PMP Screen	5'		
Bottom of #00 Sand	7'		
Bags of Cement	13.5		
Bags of Silica	4.25		
Borehole Diameter	6"		
Bottom of TMP Well	51'		
Bottom of Borehole	51'		

Pipe Diameter
TMP: 1.5"
PMP: 1"
Borehole Diameter: 6"

Ground Surface 0.0'

HT Grout

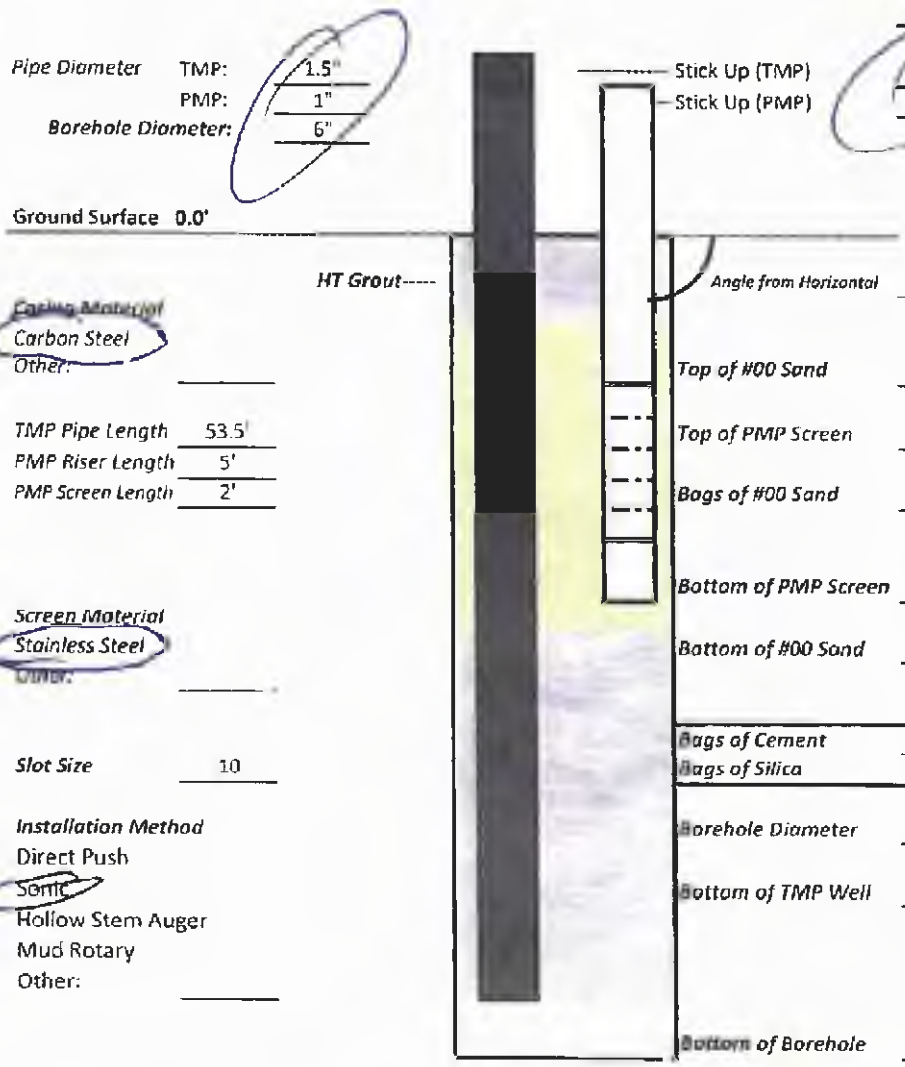
Casing Material
Carbon Steel
Other:

TMP Pipe Length 53.5'
PMP Riser Length 5'
PMP Screen Length 2'

Screen Material
Stainless Steel
Other:

Slot Size 10

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of TMP [ft bTOC]:	53.5'	
Depth to bottom of PMP [ft bTOC]:	7'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP [ft bgs]	Depth to Grout, PMP [ft bgs]

PID Log: Make/Model:

Time:	08:30	Reading:	0.0 PPM
Time:	10:34	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

TERRATHERM

Temperature and Pressure Monitoring Point Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **T-8**

Date: 10-2-23

Oversight: J. Baugh

Driller: K. Gantt

Job # R23-104

Pipe Diameter TMP: 1.5"
PMP: 1"
Borehole Diameter: 6"

Ground Surface 0.0'

HT Grout

Casing Material
Carbon Steel
Other:

TMP Pipe Length 23.5
PMP Riser Length 5'
PMP Screen Length 2'

Screen Material
Stainless Steel
Other:

Slot Size 10

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up (TMP)	30"		
Stick Up (PMP)	24"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of PMP Screen	3'		
Bags of #00 Sand	2.5		
Bottom of PMP Screen	5'		
Bottom of #00 Sand	7'		
Bags of Cement	4.75		
Bags of Silica	1.5		
Borehole Diameter	6'		
Bottom of TMP Well	21'		
Bottom of Borehole	21		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of TMP [ft bTOC]:	23.5'	
Depth to bottom of PMP [ft bTOC]:	7'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP [ft bgs]	Depth to Grout, PMP [ft bgs]

PID Log: Make/Model:

Time: 10:00	Reading: 0.0 PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM

Notes:

TERRATHERM
a Cascade Company

Appendix C

Stack Emissions Calculations

Date of Vapor Sampling	VGAC Influent Lab Results [ug/m3]	VGAC Effluent Lab Results [ug/m3]	Destructive Removal Efficiency [%]
12/13/2024	103,773	184	99.823
1/8/2024	494,100	138	99.972
2/5/2024	2,217,826	118	99.995
3/4/2024	163,558	663	99.595
3/19/2024	100,919	95	99.906
4/30/2024	80,521	256	99.682

Table C-1. Destructive Removal Efficiency

An estimated 8.7 lbs of mass was emitted out of the stack.

TERRATHERM
a Cascade Company

Appendix D

Treatment System Sampling Laboratory Analytical Results Summary Tables

TerraTherm
Jacksonville, NC Site
Process Liquid Summary

Compounds	CAS	Unit	Liquid Effluent 12/1/2023	Liquid Influent 12/26/2023	Liquid Midfluent 12/26/2023	Liquid Influent 1/8/2024	Liquid Midfluent 1/8/2024	Liquid Effluent 1/8/2024
Volatile Organic Compounds (EPA 8260)								
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
1,1,1-Trichloroethane	71-55-6	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/l	6.0 U	60 U	30 U	60 U	3.0 U	3.0 U
1,1,2-Trichloroethane	79-00-5	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
1,1-Dichloroethane	75-34-3	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
1,1-Dichloroethene	75-35-4	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
1,1-Dichloropropene	563-58-6	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	87-61-6	ug/l	4.0 U	40 U	20 U	40 U	2.0 U	2.0 U
1,2,3-Trichloropropane	96-18-4	ug/l	5.0 U	50 U	25 U	50 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	120-82-1	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	95-63-6	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/l	10 U	100 U	50 U	100 U+	5.0 U+	5.0 U+
1,2-Dichlorobenzene	95-50-1	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
1,2-Dichloroethane	107-06-2	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
1,2-Dichloropropane	78-87-5	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene	108-67-8	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
1,3-Dichlorobenzene	541-73-1	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
1,3-Dichloropropane	142-28-9	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
1,4-Dichlorobenzene	106-46-7	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
2,2-Dichloropropane	594-20-7	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
2-Butanone (MEK)	78-93-3	ug/l	30 U	300 U	15 U	300 U	15 U	15 U
2-Chlorotoluene	95-49-8	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
2-Hexanone	591-78-6	ug/l	10 U	100 U	5.0 U	100 U	5.0 U	5.0 U
3-Chloro-1-propene	107-05-1	ug/l	4.0 U	40 U	2.0 U	40 U	2.0 U	2.0 U
4-Chlorotoluene	106-43-4	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
4-Isopropyltoluene	99-87-6	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/l	10 U	100 U	5.0 U	100 U	5.0 U	5.0 U
Acetone	67-64-1	ug/l	30 U	300 U	15 U	300 U	15 U	15 U
Acrylonitrile	107-13-1	ug/l	40 U	400 U	20 U	400 U	20 U	20 U
Benzene	71-43-2	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
Bromobenzene	108-86-1	ug/l	2.0 U	20 U	10 U	20 U	1.0 U	1.0 U
Bromoform	75-25-2	ug/l	4.0 U	40 U	2.0 U	40 U	2.0 U	2.0 U
Bromomethane	74-83-9	ug/l	10 U	100 U	5.0 U	100 U	5.0 U	5.0 U
Carbon disulfide	75-15-0	ug/l	4.0 U	40 U	2.0 U	40 U	2.0 U	2.0 U
Carbon tetrachloride	56-23-5	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
Chlorobenzene	108-90-7	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
Chlorobromomethane	74-97-5	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
Chlorodibromomethane	124-48-1	ug/l	4.0 U	40 U	2.0 U	40 U	2.0 U	2.0 U
Chloroethane	75-00-3	ug/l	8.0 U	80 U	4.0 U	80 U	4.0 U	4.0 U
Chloroform	67-66-3	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
Chloromethane	74-87-3	ug/l	4.0 U	40 U	2.0 U	40 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	156-59-2	ug/l	2.0 U	**140**	1.0 U	**66**	1.0 U	1.0 U
cis-1,3-Dichloropropene	10061-01-5	ug/l	4.0 U	40 U	2.0 U	40 U	2.0 U	2.0 U
Cyclohexane	110-82-7	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
Dibromomethane	74-95-3	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
Dichlorobromomethane	75-27-4	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
Dichlorodifluoromethane	75-71-8	ug/l	6.0 U	60 U	3.0 U	60 U	3.0 U	3.0 U
Ethyl ether	60-29-7	ug/l	4.0 U	40 U	2.0 U	40 U	2.0 U	2.0 U
Ethyl methacrylate	97-63-2	ug/l	6.0 U	60 U	3.0 U	60 U	3.0 U	3.0 U
Ethylbenzene	100-41-4	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
Ethylene Dibromide	106-93-4	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
Hexachlorobutadiene	87-68-3	ug/l	4.0 U	40 U	2.0 U	40 U	2.0 U	2.0 U
Hexane	110-54-3	ug/l	4.0 U	40 U	2.0 U	40 U	2.0 U	2.0 U
Iodomethane	74-88-4	ug/l	10 U	100 U	5.0 U	100 U	5.0 U	5.0 U
Isopropylbenzene	98-82-8	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
Methyl acetate	79-20-9	ug/l	10 U	100 U	5.0 U	100 U	5.0 U	5.0 U
Methyl tert-butyl ether	1634-04-4	ug/l	10 U	100 U	5.0 U	100 U	5.0 U	5.0 U
Methylcyclohexane	108-87-2	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
Methylene Chloride	75-09-2	ug/l	4.0 U	40 U	2.0 U	40 U	2.0 U	2.0 U
m-Xylene & p-Xylene	179601-23-1	ug/l	4.0 U	40 U	2.0 U	40 U	2.0 U	2.0 U
Naphthalene	91-20-3	ug/l	4.0 U	40 U	2.0 U	40 U	2.0 U	2.0 U
n-Butylbenzene	104-51-8	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
N-Propylbenzene	103-65-1	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
o-Xylene	95-47-6	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
sec-Butylbenzene	135-98-8	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
Styrene	100-42-5	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
tert-Butylbenzene	98-06-6	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
Tetrachloroethene	127-18-4	ug/l	2.0 U	**2,300**	1.0 U	**1,500**	1.0 U	1.0 U
Tetrahydrofuran	109-99-9	ug/l	14 U	140 U	7.0 U	140 U	7.0 U	7.0 U
Toluene	108-88-3	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	156-60-5	ug/l	2.0 U	20 U	1.0 U	20 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	10061-02-6	ug/l	4.0 U	40 U	2.0 U	40 U	2.0 U	2.0 U
Trichloroethene	79-01-6	ug/l	2.0 U	**130**	1.0 U	**77**	1.0 U	1.0 U
Trichlorofluoromethane	75-69-4	ug/l	4.0 U	40 U	2.0 U	40 U	2.0 U	2.0 U
Vinyl acetate	108-05-4	ug/l	6.0 U	60 U+	3.0 U+	60 U	3.0 U	3.0 U
Vinyl chloride	75-01-4	ug/l	4.0 U	40 U	2.0 U	40 U	2.0 U	2.0 U

U = Compound not detected at reporting limit shown.

J = Estimated concentration, below the reporting limit but above the Method Detection Limit (MDL).

TetraTherm
Jacksonville, NC Site
Process Liquid Summary

Compounds	CAS	Unit	Liquid Influent 1/22/2024	Liquid Midfluent 1/22/2024	Liquid Influent 2/5/2024	Liquid Midfluent 2/5/2024	Liquid Effluent 2/5/2024
Volatile Organic Compounds (EPA 8260)							
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
1,1,1-Trichloroethane	71-55-6	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/l	30 U	3.0 U	1,200 U	30 U	3.0 U
1,1,2-Trichloroethane	79-00-5	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
1,1-Dichloroethane	75-34-3	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
1,1-Dichloroethene	75-35-4	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
1,1-Dichloropropene	563-58-6	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
1,2,3-Trichlorobenzene	87-61-6	ug/l	20 U	2.0 U	800 U	20 U	2.0 U
1,2,3-Trichloropropane	96-18-4	ug/l	25 U	2.5 U	1,000 U	25 U	2.0 U
1,2,4-Trichlorobenzene	120-82-1	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
1,2,4-Trimethylbenzene	95-63-6	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/l	50 U	5.0 U	2,000 U	50 U	5.0 U
1,2-Dichlorobenzene	95-50-1	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
1,2-Dichloroethane	107-06-2	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
1,2-Dichloropropane	78-87-5	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
1,3,5-Trimethylbenzene	108-67-8	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
1,3-Dichlorobenzene	541-73-1	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
1,3-Dichloropropane	142-28-9	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
1,4-Dichlorobenzene	106-46-7	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
2,2-Dichloropropane	594-20-7	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
2-Butanone (MEK)	78-93-3	ug/l	150 U	15 U	6,000 U	150 U	15 U
2-Chlorotoluene	95-49-8	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
2-Hexanone	591-78-6	ug/l	50 U	5.0 U	2,000 U	50 U	5.0 U
3-Chloro-1-propene	107-05-1	ug/l	20 U	2.0 U	800 U	20 U	2.0 U
4-Chlorotoluene	106-44-4	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
4-Isopropyltoluene	99-87-6	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/l	50 U	5.0 U	2,000 U	50 U	5.0 U
Acetone	67-64-1	ug/l	**790**	**310**	6,000 U	150 U	15 U
Acrylonitrile	107-14-1	ug/l	200 U	20 U	8,000 U	200 U	20 U
Benzene	71-43-2	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
Bromobenzene	108-86-1	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
Bromoform	75-25-2	ug/l	20 U	2.0 U	800 U	20 U	2.0 U
Bromomethane	74-83-9	ug/l	50 U	5.0 U	2,000 U	50 U	5.0 U
Carbon disulfide	75-15-0	ug/l	20 U	2.0 U	800 U	20 U	2.0 U
Carbon tetrachloride	56-23-5	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
Chlorobenzene	108-90-7	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
Chlorobromomethane	74-97-5	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
Chlorodibromomethane	124-48-1	ug/l	20 U	2.0 U	800 U	20 U	2.0 U
Chloroethane	75-00-3	ug/l	40 U	4.0 U	1,600 U	40 U	4.0 U
Chloroform	67-66-3	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
Chloromethane	74-87-3	ug/l	20 U	2.0 U	800 U	20 U	2.0 U
cis-1,2-Dichloroethene	156-59-2	ug/l	**41**	**5.8**	400 U	**30**	1.0 U
cis-1,3-Dichloropropene	10061-01-5	ug/l	20 U	2.0 U	800 U	20 U	2.0 U
Cyclohexane	110-82-7	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
Dibromomethane	74-95-3	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
Dichlorobromomethane	75-27-4	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
Dichlorodifluoromethane	75-71-8	ug/l	40 U	4.0 U	1,200 U	40 U	3.0 U
Ethyl ether	60-29-7	ug/l	20 U	2.0 U	800 U	20 U	2.0 U
Ethyl methacrylate	97-63-2	ug/l	30 U	3.0 U	1,200 U	30 U	3.0 U
Ethylbenzene	100-41-4	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
Ethylene Dibromide	106-93-4	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
Hexachlorobutadiene	87-68-3	ug/l	20 U	2.0 U	800 U	20 U	2.0 U
Hexane	110-54-3	ug/l	20 U	2.0 U	800 U	20 U	2.0 U
Iodomethane	74-88-4	ug/l	50 U	5.0 U	2,000 U	50 U	5.0 U
Isopropylbenzene	98-82-8	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
Methyl acetate	79-20-9	ug/l	50 U	5.0 U	2,000 U	50 U	5.0 U
Methyl tert-butyl ether	1634-04-4	ug/l	50 U	5.0 U	2,000 U	50 U	5.0 U
Methylcyclohexane	108-87-2	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
Methylene Chloride	75-09-2	ug/l	20 U	2.0 U	800 U	20 U	2.0 U
m-Xylene & p-Xylene	179601-23-1	ug/l	20 U	2.0 U	800 U	20 U	2.0 U
Naphthalene	91-20-3	ug/l	20 U	2.0 U	800 U	20 U	2.0 U
n-Butylbenzene	104-51-8	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
N Propylbenzene	103-65-1	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
o-Xylene	95-47-6	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
sec-Butylbenzene	135-98-8	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
Styrene	100-42-5	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
tert-Butylbenzene	98-06-6	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
Tetrachloroethene	127-18-4	ug/l	**1,800**	**1.7**	**65,000**	**540**	1.0 U
Tetrahydrofuran	109-99-9	ug/l	70 U	7.0 U	2,800 U	70 U	7.0 U
Toluene	108-88-3	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
trans-1,2-Dichloroethene	156-60-5	ug/l	10 U	1.0 U	400 U	10 U	1.0 U
trans-1,3-Dichloropropene	10061-02-6	ug/l	20 U	2.0 U	800 U	20 U	2.0 U
Trichloroethene	79-01-6	ug/l	**49**	1.0 U	400 U	**28**	1.0 U
Trichlorofluoromethane	75-69-4	ug/l	20 U	2.0 U	800 U	20 U	2.0 U
Vinyl acetate	108-05-4	ug/l	30 U	3.0 U	1,200 U	30 U	3.0 U
Vinyl chloride	75-01-4	ug/l	20 U	2.0 U	800 U	20 U	2.0 U

U = Compound not detected at reporting limit shown

J = Estimated concentration; below the reporting limit but above the Method Dete-t-

TerraTherm
Jacksonville, NC Site
Process Liquid Summary

Compounds	CAS	Unit	Liquid Influent 2/19/2024	Liquid Midfluent 2/19/2024	Liquid Influent 2/27/2024	Liquid Influent 3/4/2024	Liquid Midfluent 3/4/2024	Liquid Effluent 3/4/2024
Volatile Organic Compounds (EPA 8260)								
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
1,1,1-Trichloroethane	71-55-6	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
1,1,2,2-Tetrachloroethene	79-34-5	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/l	60 U	12 U	15 U	6.0 U	6.0 U	3.0 U
1,1,2-Trichloroethane	79-00-5	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
1,1-Dichloroethane	75-34-3	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
1,1-Dichloroethene	75-35-4	ug/l	20 U	**7.5**	5.0 U	2.0 U	**19**	1.0 U
1,1-Dichloropropene	563-58-6	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
1,2,3-Trichlorobenzene	87-61-6	ug/l	40 U	8.0 U	10 U	4.0 U	4.0 U	2.0 U
1,2,3-Trichloropropane	96-18-4	ug/l	50 U	10 U	13 U	5.0 U	5.0 U	2.5 U
1,2,4-Trichlorobenzene	120-82-1	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
1,2,4-Trimethylbenzene	95-63-6	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/l	100 U	20 U	25 U	10 U	10 U	5.0 U
1,2-Dichlorobenzene	95-50-1	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
1,2-Dichloroethane	107-06-2	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
1,2-Dichloropropane	78-87-5	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
1,2,5-Trimethylbenzene	108-67-8	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
1,3-Dichlorobenzene	541-73-1	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
1,3-Dichloropropane	142-28-9	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
1,4-Dichlorobenzene	106-46-7	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
2,2-Dichloropropane	594-20-7	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
2-Butanone (MEK)	78-93-3	ug/l	300 U	60 U	75 U	30 U	**30**	15 U
2-Chlorotoluene	95-49-8	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
2-Hexanone	591-78-6	ug/l	100 U	20 U	25 U	10 U	10 U	5.0 U
3-Chloro-1-propene	107-05-1	ug/l	40 U	8.0 U	10 U	4.0 U	4.0 U	2.0 U
4-Chlorotoluene	106-43-4	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
4-Isopropyltoluene	99-87-6	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/l	100 U	20 U	25 U	10 U	10 U	5.0 U
Acetone	67-64-1	ug/l	**450**	**360**	**450**	**350**	**330**	**30**
Acrylonitrile	107-13-1	ug/l	400 U	80 U	100 U	40 U	40 U	20 U
Benzene	71-43-2	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
Bromobenzene	108-86-1	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
Bromoform	75-25-2	ug/l	40 U	8.0 U	10 U	4.0 U	4.0 U	2.0 U
Bromomethane	74-83-9	ug/l	100 U	20 U	25 U	10 U	10 U	5.0 U
Carbon disulfide	75-15-0	ug/l	40 U	8.0 U	10 U	4.0 U	**25**	2.0 U
Carbon tetrachloride	56-23-5	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
Chlorobenzene	108-90-7	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
Chlorobromomethane	74-97-5	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
Chlorodibromomethane	124-48-1	ug/l	40 U	8.0 U	10 U	4.0 U	4.0 U	2.0 U
Chloroethane	75-00-3	ug/l	80 U	16 U	20 U	8.0 U	8.0 U	4.0 U
Chloroform	67-66-3	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
Chloromethane	74-87-3	ug/l	40 U	8.0 U	10 U	4.0 U	4.0 U	2.0 U
cis-1,2-Dichloroethene	156-59-2	ug/l	**40**	**340**	**58**	**58**	**380**	**3.1**
cis-1,3-Dichloropropene	10061-01-5	ug/l	40 U	8.0 U	10 U	4.0 U	4.0 U	2.0 U
Cyclohexane	110-82-7	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
Dibromomethane	74-95-3	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
Dichlorobromomethane	75-27-4	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
Dichlorodifluoromethane	75-71-8	ug/l	60 U	12 U	15 U	6.0 U	6.0 U	3.0 U
Ethyl ether	60-29-7	ug/l	40 U	8.0 U	10 U	4.0 U	4.0 U	2.0 U
Ethyl methacrylate	97-63-2	ug/l	60 U	12 U	15 U	6.0 U	6.0 U	3.0 U
Ethylbenzene	100-41-4	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
Ethylene Dibromide	106-93-4	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
Hexachlorobutadiene	87-68-3	ug/l	40 U	8.0 U	10 U	4.0 U	4.0 U	2.0 U
Hexane	110-54-3	ug/l	40 U	8.0 U	10 U	4.0 U	4.0 U	2.0 U
Iodomethane	74-88-4	ug/l	100 U	20 U	25 U	10 U	10 U	5.0 U
Isopropylbenzene	98-82-8	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
Methyl acetate	79-20-9	ug/l	100 U	20 U	25 U	10 U	10 U	5.0 U
Methyl tert-butyl ether	1634-04-4	ug/l	100 U	20 U	25 U	10 U	10 U	5.0 U
Methylcyclohexane	108-87-2	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
Methylene Chloride	75-09-2	ug/l	40 U	8.0 U	10 U	4.0 U	4.0 U	2.0 U
m-Xylene & p-Xylene	179601-23-1	ug/l	40 U	8.0 U	10 U	4.0 U	4.0 U	2.0 U
Naphthalene	91-20-3	ug/l	40 U	8.0 U	10 U	4.0 U	4.0 U	2.0 U
n-Butylbenzene	104-51-8	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
N-Propylbenzene	103-65-1	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
o-Xylene	95-47-6	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
sec-Butylbenzene	135-98-8	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
Styrene	100-42-5	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
tert-Butylbenzene	98-06-6	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
Tetrachloroethene	127-18-4	ug/l	**1,000**	**230**	**550**	**200**	**230**	1.0 U
Tetrahydrofuran	109-99-9	ug/l	140 U	28 U	35 U	14 U	14 U	7.0 U
Toluene	108-88-3	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
trans-1,2-Dichloroethene	156-60-5	ug/l	20 U	4.0 U	5.0 U	2.0 U	2.0 U	1.0 U
trans-1,3-Dichloropropene	10061-02-6	ug/l	40 U	8.0 U	10 U	4.0 U	4.0 U	2.0 U
Trichloroethene	79-01-6	ug/l	**26**	**120**	**24**	**14**	**98**	1.0 U
Trichlorofluoromethane	75-69-4	ug/l	40 U	8.0 U	10 U	4.0 U	4.0 U	2.0 U
Vinyl acetate	108-05-4	ug/l	60 U	12 U	15 U	6.0 U	6.0 U	3.0 U
Vinyl chloride	75-01-4	ug/l	40 U	8.0 U	10 U	4.0 U	**16**	**3.6**

U = Compound not detected at reporting limit shown.

J = Estimated concentration, below the reporting limit but above the Method Detectio

TerraTherm
Jacksonville, NC Site
Process Liquid Summary

Compounds	CAS	Unit	Liquid Influent 3/11/2024	Liquid Influent 3/18/2024	Liquid Midfluent 3/18/2024	Liquid Influent 3/25/2024	Liquid Influent 4/1/2024	Liquid Influent 4/8/2024
Volatile Organic Compounds (EPA 8260)								
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
1,1,1-Trichloroethane	71-55-6	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/l	6.0 U	3.0 U	3.0 U	12 U	12 U	3.0 U
1,1,2-Trichloroethane	79-00-5	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	**1.9**
1,1-Dichloroethane	75-34-3	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
1,1-Dichloroethene	75-35-4	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
1,1-Dichloropropene	563-58-6	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
1,2,3-Trichlorobenzene	87-61-6	ug/l	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	2.0 U
1,2,3-Trichloropropane	96-18-4	ug/l	5.0 U	2.5 U	2.5 U	10 U	10 U	2.5 U
1,2,4-Trichlorobenzene	120-82-1	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
1,2,4-Trimethylbenzene	95-63-6	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/l	10 U	5.0 U	5.0 U	20 U	20 U	5.0 U
1,2-Dichlorobenzene	95-50-1	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
1,2-Dichloroethane	107-06-2	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
1,2-Dichloropropane	78-87-5	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
1,2,5-Trimethylbenzene	108-67-8	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
1,3-Dichlorobenzene	541-73-1	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
1,3-Dichloropropane	142-28-9	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
1,4-Dichlorobenzene	106-46-7	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
2,2-Dichloropropane	594-20-7	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
2-Butanone (MEK)	78-93-3	ug/l	**43**	**49**	15 U	60 U	60 U	**40**
2-Chlorotoluene	95-49-8	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
2-Hexanone	591-78-6	ug/l	10 U	5.0 U	5.0 U	20 U	20 U	5.0 U
3-Chloro-1-propene	107-05-1	ug/l	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	2.0 U
4-Chlorotoluene	106-43-4	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
4-Isopropyltoluene	99-87-6	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/l	10 U	5.0 U	5.0 U	20 U	20 U	5.0 U
Acetone	67-64-1	ug/l	**450**	**430**	**160**	**370**	**490**	**410**
Acrylonitrile	107-13-1	ug/l	40 U	20 U	20 U	80 U	80 U	20 U
Benzene	71-43-2	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Bromobenzene	108-86-1	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Bromoform	75-25-2	ug/l	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	2.0 U
Bromomethane	74-83-9	ug/l	10 U	5.0 U	5.0 U	20 U	20 U	5.0 U
Carbon disulfide	75-15-0	ug/l	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	2.0 U
Carbon tetrachloride	56-23-5	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Chlorobenzene	108-90-7	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Chlorobromomethane	74-97-5	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Chlorodibromomethane	124-48-1	ug/l	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	2.0 U
Chloroethane	75-00-3	ug/l	8.0 U	4.0 U	4.0 U	16 U	16 U	4.0 U
Chloroform	67-66-3	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Chloromethane	74-87-3	ug/l	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	2.0 U
cis-1,2-Dichloroethene	156-59-2	ug/l	**38**	**23**	**4.4**	**22**	**55**	**48**
cis-1,3-Dichloropropene	10061-01-5	ug/l	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	2.0 U
Cyclohexane	110-82-7	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Dibromomethane	74-95-3	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Dichlorobromomethane	75-27-4	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Dichlorodifluoromethane	75-71-8	ug/l	6.0 U	3.0 U	3.0 U	12 U	12 U	3.0 U
Ethyl ether	60-29-7	ug/l	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	2.0 U
Ethyl methacrylate	97-63-2	ug/l	6.0 U	3.0 U	3.0 U	12 U	12 U	3.0 U
Ethylbenzene	100-41-4	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Ethylene Dibromide	106-93-4	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Hexachlorobutadiene	87-68-3	ug/l	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	2.0 U
Hexane	110-54-3	ug/l	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	2.0 U
Iodomethane	74-88-4	ug/l	10 U	5.0 U	5.0 U	20 U	20 U	5.0 U
Isopropylbenzene	98-82-8	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Methyl acetate	79-20-9	ug/l	10 U	5.0 U	5.0 U	20 U	20 U	5.0 U
Methyl tert-butyl ether	1634-04-4	ug/l	10 U	5.0 U	5.0 U	20 U	20 U	5.0 U
Methylcyclohexane	108-87-2	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Methylene Chloride	75-09-2	ug/l	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	2.0 U
m-Xylene & p-Xylene	179601-23-1	ug/l	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	2.0 U
Naphthalene	91-20-3	ug/l	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	2.0 U
n-Butylbenzene	104-51-8	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
N-Propylbenzene	103-65-1	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
o-Xylene	95-47-6	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
sec-Butylbenzene	135-98-8	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Styrene	100-42-5	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
tert-Butylbenzene	98-06-6	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Tetrachloroethene	127-18-4	ug/l	**270**	**260**	1.0 U	**160**	**270**	**280**
Tetrahydrofuran	109-99-9	ug/l	14 U	7.0 U	7.0 U	28 U	28 U	7.0 U
Toluene	108-88-3	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
trans-1,2-Dichloroethene	156-60-5	ug/l	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U
trans-1,3-Dichloropropene	10061-02-6	ug/l	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	2.0 U
Trichloroethene	79-01-6	ug/l	**12**	**7.6**	1.0 U	**10**	**9.3**	**25**
Trichlorofluoromethane	75-69-4	ug/l	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	2.0 U
Vinyl acetate	108-05-4	ug/l	6.0 U	3.0 U	3.0 U	12 U	12 U	3.0 U
Vinyl chloride	75-01-4	ug/l	4.0 U	2.0 U	**6.9**	8.0 U	8.0 U	2.0 U

U = Compound not detected at reporting limit shown.

J = Estimated concentration, below the reporting limit but above the Method Detecti

TerraTherm
Jacksonville, NC Site
Process Liquid Summary

Compounds	CAS	Unit	Liquid Influent 4/15/2024	Liquid Midfluent 4/15/2024	Liquid Influent 4/22/2024	Liquid Influent 4/30/2024	Liquid Midfluent 4/30/2024	Liquid Effluent 4/30/2024
Volatile Organic Compounds (EPA 8260)								
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	71-55-6	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/l	3.0 U	3.0 U	6.0 U	3.0 U	3.0 U	3.0 U
1,1,2-Trichloroethane	79-00-5	ug/l	**1.0**	1.0 U	2.0 U	**1.1**	1.0 U	1.0 U
1,1-Dichloroethane	75-34-3	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	75-35-4	ug/l	1.0 U	**2.0**	2.0 U	1.0 U	**1.4**	1.0 U
1,1-Dichloropropene	563-58-6	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	87-61-6	ug/l	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,2,3-Trichloropropane	96-18-4	ug/l	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	120-82-1	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	95-63-6	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/l	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	95-50-1	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	107-06-2	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	78-87-5	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,2,5-Trimethylbenzene	108-67-8	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	541-73-1	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropane	142-28-9	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	106-46-7	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
2,2-Dichloropropane	594-20-7	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	78-93-3	ug/l	**22**	15 U	**51**	10 U	10 U	10 U
2-Chlorotoluene	95-49-8	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	591-78-6	ug/l	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U
3-Chloro-1-propene	107-05-1	ug/l	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U
4-Chlorotoluene	106-43-4	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
4-Isopropyltoluene	99-87-6	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/l	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U
Acetone	67-64-1	ug/l	**240**	**120**	**520**	**140**	**89**	15 U
Acrylonitrile	107-13-1	ug/l	20 U	20 U	40 U	20 U	20 U	20 U
Benzene	71-43-2	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Bromobenzene	108-86-1	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Bromoform	75-25-2	ug/l	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	74-83-9	ug/l	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	75-15-0	ug/l	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U
Carbon tetrachloride	56-23-5	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	108-90-7	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Chlorobromomethane	74-97-5	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	124-48-1	ug/l	2.0 U	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	75-00-3	ug/l	4.0 U	4.0 U	8.0 U	2.0 U	2.0 U	2.0 U
Chloroform	67-66-3	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	74-87-3	ug/l	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	156-59-2	ug/l	**29**	**47**	**16**	**18**	**34**	1.0 U
cis-1,3-Dichloropropene	10061-01-5	ug/l	2.0 U+	2.0 U+	4.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	110-82-7	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Dibromomethane	74-95-3	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Dichlorobromomethane	75-27-4	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	75-71-8	ug/l	3.0 U	3.0 U	6.0 U	2.0 U	2.0 U	2.0 U
Ethyl ether	60-29-7	ug/l	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U
Ethyl methacrylate	97-63-2	ug/l	3.0 U	3.0 U	6.0 U	3.0 U	3.0 U	3.0 U
Ethylbenzene	100-41-4	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Ethylene Dibromide	106-93-4	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	87-68-3	ug/l	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U
Hexane	110-54-3	ug/l	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U
Iodomethane	74-88-4	ug/l	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	98-82-8	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	79-20-9	ug/l	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	1634-04-4	ug/l	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	108-87-2	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	75-09-2	ug/l	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U
m-Xylene & p-Xylene	179601-23-1	ug/l	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U
Naphthalene	91-20-3	ug/l	2.0 U	2.0 U	4.0 U	3.0 U	3.0 U	3.0 U
n-Butylbenzene	104-51-8	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
N-Propylbenzene	103-65-1	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	95-47-6	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
sec-Butylbenzene	135-98-8	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Styrene	100-42-5	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
tert-Butylbenzene	98-06-6	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	127-18-4	ug/l	**160**	**38**	**170**	**160**	**67**	1.0 U
Tetrahydrofuran	109-99-9	ug/l	7.0 U	7.0 U	14 U	7.0 U	7.0 U	7.0 U
Toluene	108-88-3	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	156-60-5	ug/l	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	10061-02-6	ug/l	2.0 U	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	79-01-6	ug/l	**4.2**	**6.3**	**4.9**	**4.7**	**3.6**	1.0 U
Trichlorofluoromethane	75-69-4	ug/l	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U
Vinyl acetate	108-05-4	ug/l	3.0 U	3.0 U	6.0 U	3.0 U	3.0 U	3.0 U
Vinyl chloride	75-01-4	ug/l	2.0 U	**4.7**	4.0 U	1.0 U	**3.9**	**5.6**

U = Compound not detected at reporting limit shown.

J = Estimated concentration, below the reporting limit but above the Method Detectic

TerraTherm
Jacksonville NS Site
Process Vapor Summary

Compounds	CAS	Unit	VGAI Influent 12/13/2023	VGAC Effluent 12/13/2023	VGAI Influent 12/26/2023	VGAI Influent 1/8/2024	VGAC Effluent 1/8/2024	VGAI Influent 1/22/2024	VGAI Influent 1/29/2024	VGAC Influent 2/5/2024	VGAI Effluent 2/5/2024	VGAC Influent 2/19/2024	VGAC Influent 2/27/2024
Volatile Organic Compounds (EPA TO 15)													
Freon 12	75-71-8	ug/m3	59 U	3.9 U	65 U	200 U	2.8 J	590 U	1,300 U	780 U	1.4 U	170 U	75 U
Freon 114	76-14-2	ug/m3	84 U	0.45 U	92 U	290 U	0.92 U	830 U	1,700 U	1,100 U	0.97 U	240 U	110 U
Chloromethane	74-87-3	ug/m3	98 U	5.6	110 U	340 U	20	980 U	2,500 U	1,300 U	71	93 J	100 J
Vinyl Chloride	75-01-4	ug/m3	60	0.31 U	190	140	74	120 J	1,700 J	100 J	0.36 U	130	69
1,3-Butadiene	106-99-0	ug/m3	26 U	0.27 U	29 U	92 U	0.29 U	260 U	1,500 U	350 U	0.31 U	76 U	12 J
Bromomethane	74-83-9	ug/m3	130 J	24 U	200 U	650 U	3.0 J	1,900 U	10,000 J	2,400 U	2.2 J	530 U	240 U
Chloroethane	75-00-3	ug/m3	120 U	1.6 U	140 U	440 U	1.7 U	1,200 U	7,100 U	1,700 U	1.8 U	360 U	160 U
Freon 11	75-69-4	ug/m3	97 U	0.68 U	74 U	230 U	0.74 U	670 U	1,900 U	890 U	0.76 U	190 U	86 U
Ethanol	64-17-5	ug/m3	110 U	1.4 J	120 U	390 U	2.4 J	370 J	740 J	410 J	2.6 J	150 J	240
Freon 113	76-13-1	ug/m3	91 U	0.94 U	100 U	320 U	1.0 U	910 U	5,100 U	1,200 U	1.1 U	260 U	120 U
1,1-Dichloroethene	75-35-4	ug/m3	47 U	0.48 U	13 J	160 U	0.38 J	470 U	2,600 U	630 U	0.55 U	27 J	30 J
Acetone	67-64-1	ug/m3	360	66	760	2,600	17	5,900	5,600 J	6,900	16	6,500	8,700
2-Propanol	67-63-0	ug/m3	150 U	11	160 U	510 U	1.0 J	200 J	8,200 U	130 J	6.8 U	420 U	51 J
Carbon Disulfide	75-15-0	ug/m3	97 J	19 U	240	440 J	1.8 J	340 J	6,300 U	360 J	0.12 J	240 J	240
3-Chloropropene	107-05-1	ug/m3	150 U	1.9 U	160 U	520 U	2.1 U	1,500 U	8,400 U	2,000 U	2.2 U	430 U	190 U
Methylene chloride	75-09-2	ug/m3	160 U	2.1 U	180 U	580 U	0.66 J	1,600 U	9,300 U	2,200 U	2.4 U	480 U	210 U
Methyl tert-butyl ether	1634-04-4	ug/m3	43 J	0.44 U	47 U	150 U	0.48 U	430 U	2,400 U	570 U	0.50 U	120 U	55 U
trans-1,2-Dichloroethene	156-60-5	ug/m3	50	0.48 U	66	92 J	0.52 U	87 J	2,600 U	630 U	0.55 U	50 J	53 J
Hexane	110-54-3	ug/m3	42 U	2.1 U	46 U	150 U	2.3 U	420 U	2,400 U	560 U	2.4 U	120 U	54 U
1,1-Dichloroethane	75-34-3	ug/m3	48 U	0.49 U	53 U	170 U	0.53 U	480 U	2,700 U	640 U	0.56 U	140 U	62 U
2-Butanone (Methyl Ethyl Ketone)	78-93-3	ug/m3	77 J	4.1 J	170	410 J	2.0 J	530 J	7,900 U	770 J	1.7 J	1,000	1,400
cis-1,2-Dichloroethene	156-59-2	ug/m3	3,300	0.48 U	2,400	2,500	0.59	2,100	1,500 J	990	0.55 U	710	720
Tetrahydrofuran	109-99-9	ug/m3	35 U	0.71 J	39 U	120 U	1.9 U	350 U	2,000 U	460 U	2.2	100 U	18 J
Chloroform	67-66-3	ug/m3	13 J	0.60 U	64 U	200 U	0.64 U	71 J	3,300 U	770 U	0.68 U	170 U	12 J
1,1,1-Trichloroethane	71-55-6	ug/m3	65 U	0.66 U	71 U	230 U	0.72 U	650 U	4,000 U	850 U	0.76 U	190 U	83 U
Cyclohexane	110-82-7	ug/m3	41 U	2.1 U	45 U	140 U	2.3 U	410 U	2,300 U	540 U	2.4 U	120 U	52 U
Carbon Tetrachloride	56-23-5	ug/m3	75 U	0.77 U	82 U	260 U	0.83 U	750 U	4,200 U	990 U	0.87 U	220 U	96 U
2,2,4-Trimethylpentane	540-84-1	ug/m3	56 J	2.8 U	61 U	190 U	3.1 U	560 U	3,100 U	740 U	3.2 U	160 U	71 U
Benzene	71-43-2	ug/m3	100	0.22 J	120	130 J	0.33 J	130 J	2,100 U	190 J	0.16 J	170	170
1,2-Dichloroethane	107-06-2	ug/m3	4 J	0.49 U	53 U	170 U	0.53 U	480 U	2,700 U	640 U	0.56 U	140 U	62 U
Heptane	142-82-5	ug/m3	49 U	2.5 U	54 U	170 U	2.7 U	490 U	2,700 U	760 J	2.8 U	140 U	51 J
Trichloroethene	79-01-6	ug/m3	3,400	0.66 U	3,900	7,200	0.44 J	5,400	14,000	7,600	0.75 U	2,100	1,900
1,2-Dichloropropane	78-87-5	ug/m3	55 U	0.56 U	60 U	190 U	0.61 U	550 U	3,100 U	730 U	0.64 U	45 J	43 J
1,4-Dioxane	123-91-1	ug/m3	170 U	2.2 U	190 U	600 U	2.4 U	1,700 U	9,600 U	2,300 U	2.5 J	490 U	220 U
Bromodichloromethane	75-27-4	ug/m3	80 U	0.82 U	88 U	280 U	0.88 U	800 U	4,500 U	1,000 U	0.93 U	230 U	100 U
cis-1,3-Dichloropropene	10061-01-5	ug/m3	54 U	0.55 U	59 U	190 U	0.60 U	540 U	3,000 U	720 U	0.63 U	160 U	69 U
4-Methyl-2-pentanone	108-10-1	ug/m3	190 U	20	210 U	660 U	3.2	1,900 U	11,000 U	2,600 U	1.8	560 U	250 U
Toluene	108-88-3	ug/m3	310	6.0	85	120 J	1.0 J	460	280 J	140 J	0.27 J	150	130
trans-1,3-Dichloropropene	10061-02-6	ug/m3	54 U	0.55 U	59 U	190 U	0.60 U	540 U	3,000 U	720 U	0.63 U	160 U	69 U
1,1,2-Trichloroethane	79-00-5	ug/m3	65 U	0.66 U	71 U	230 U	0.72 U	650 U	3,600 U	860 U	0.76 U	190 U	83 U
Tetrachloroethene	127-18-4	ug/m3	96,000	0.39 J	170,000	480,000	0.50 J	700,000	5,300,000	2,200,000	18	300,000	170,000
2-Hexanone	591-78-6	ug/m3	190 U	2.5 U	210 U	660 U	2.7 U	1,900 U	11,000 U	2,600 U	2.8 U	560 U	250 U
Dibromochloromethane	124-48-1	ug/m3	100 U	1.0 U	110 U	350 U	1.1 U	1,000 U	5,700 U	1,300 U	1.2 U	290 U	130 U
1,2-Dibromoethane (EDB)	106-93-4	ug/m3	91 U	0.94 U	100 U	320 U	1.0 U	910 U	5,100 U	1,200 U	1.1 U	260 U	120 U
Chlorobenzene	108-90-7	ug/m3	55 U	0.56 U	30 J	150 U	0.61 U	550 U	1,400 J	730 U	0.64 U	11 J	70 U
Ethyl Benzene	100-41-4	ug/m3	40 J	0.7	38 J	64 J	1.2	520 U	2,900 U	690 U	0.41 J	55 J	36 J
m,p Xylene	179601-23-1	ug/m3	15 J	44	26 J	69 J	4.5	520 U	730 J	690 U	1.7	100 J	62 J
o-xylene	95-47-6	ug/m3	10 J	13	15 J	40 J	1.4	520 U	2,900 U	690 U	0.54 J	36 J	27 J
Styrene	100-42-5	ug/m3	120	0.52 U	98	91 J	0.56 U	48 J	2,800 U	670 U	0.59 U	51 J	28 J
Bromoform	75-25-2	ug/m3	120 U	1.3 U	140 U	430 U	1.4 U	1,200 U	6,900 U	1,600 U	1.4 U	350 U	160 U
Cumene	98-82-8	ug/m3	12 J	0.14 J	21 J	34 J	0.65 U	580 U	3,300 U	780 U	0.040 J	24 J	17 J
1,1,2,2-Tetrachloroethane	79-34-5	ug/m3	92 U	0.84 U	90 U	280 U	0.91 U	20 U	4,600 U	1,100 U	0.95 U	240 U	100 U
Propylbenzene	103-65-1	ug/m3	58 U	0.60 U	64 U	200 U	0.65 U	580 U	3,300 U	780 U	0.68 U	170 U	75 U
4-Ethyltoluene	622-96-8	ug/m3	58 U	0.18 J	64 U	200 U	0.65 U	580 U	3,300 U	780 U	0.68 U	45 J	24 J
1,3,5-Trimethylbenzene	108-67-8	ug/m3	58 U	0.12 J	64 U	60 J	0.65 U	580 U	3,300 U	780 U	0.68 U	33 J	16 J
1,2,4-Trimethylbenzene	95-63-6	ug/m3	19 J	0.32 J	41 J	110 J	0.65 U	580 U	3,300 U	780 U	0.68 U	100 J	62 J
1,3-Dichlorobenzene	541-73-1	ug/m3	72 U	0.73 U	79 U	250 U	0.79 U	720 U	4,000 U	950 U	0.84 U	210 U	92 U
1,4-Dichlorobenzene	106-46-7	ug/m3	72 U	0.73 U	79 U	250 U	0.79 U	720 U	4,000 U	950 U	0.84 U	210 U	92 U
alpha-Chlorotoluene	100-44-7	ug/m3	62 U	0.63 U	68 U	220 U	0.68 U	620 U	3,500 U	820 U	0.72 U	180 U	79 U
1,2-Dichlorobenzene	95-50-1	ug/m3	72 U	0.73 U	79 U	250 U	0.79 U	720 U	4,000 U	950 U	0.84 U	210 U	92 U
1,2,4-Trichlorobenzene	120-82-1	ug/m3	350 U	4.5 U	390 U	1,200 U	4.9 U	3,500 U	20,000 U	4,700 U	5.2 U	1,000 U	450 U
Hexachlorobutadiene	87-68-3	ug/m3	510 U	6.5 U	560 U	1,800 U	7.0 U	5,100 U	28,000 U	6,700 U	7.4 U	1,500 U	650 U
Naphthalene	91-20-3	ug/m3	250 U	0.18 J	270 U	870 U	1.4 U	2,500 U	14,000 U	96 J	1.4 U	180 J	23 J

U = Compound not detected at reporting limit shown
J = Estimated concentration below the reporting limit but above the Method Detection Limit (MDL)

TerraTherm
Jacksonville, FL Site
Process Vapor Summary

Compounds	CAS	Unit	VGAC Influent 3/4/2024	VGAC Effluent 3/4/2024	VGAC Influent 3/11/2024	VGAC Influent 3/19/2024	VGAC Effluent 3/19/2024	VGAC Influent 3/25/2024	VGAC Influent 4/1/2024	VGAC Influent 4/8/2024	VGAC Influent 4/15/2024	VGAC Influent 4/22/2024	VGAC Influent 4/30/2024
Volatile Organic Compounds (EPA TO 15)													
Freon 12	75-71-8	ug/m3	64 U	2.6 J	41 U	30 U	1.2 J	34 U	36 U	18 U	4 U	31 U	43 U
Freon 114	76-14-2	ug/m3	90 U	1.8 U	44 U	43 U	0.92 U	46 U	50 U	50 U	46 U	44 U	66 U
Chloromethane	74-87-3	ug/m3	110 J	100	55	82	11	59	60	15	24 J	48 J	55 U
Vinyl Chloride	75-01-4	ug/m3	47	24	35	70	8.9	23	11 J	3.7	18 U	12 J	17 U
1,3-Butadiene	106-99-0	ug/m3	9.2 J	1.6	10 J	15	0.34 U	6.1 J	18 U	1.6 U	5.3 J	5.8 J	15 U
Bromomethane	74-83-9	ug/m3	200 U	50 U	96 U	96 U	25 U	110 U	110 U	140 U	110 U	97 U	100 U
Chloroethane	75-00-3	ug/m3	140 U	3.4 U	65 U	65 U	1.7 U	72 U	76 U	9.4 U	71 U	66 U	70 U
Freon 11	75-69-4	ug/m3	72 U	1.4 J	35 U	34 U	0.33 J	36 U	40 U	6.0 U	37 U	35 U	47 U
Ethanol	64-17-5	ug/m3	180	10 U	110	150	2.9 J	140	220	12 J	210	190	270
Freon 113	76-13-1	ug/m3	39 U	0.7 J	48 U	47 U	1.0 U	52 U	55 U	5.5 U	53 U	48 U	51 U
1,1-Dichloroethene	75-35-4	ug/m3	17 J	65	15 J	27	4.3	8.6 J	9.2 J	6.0	7.4 J	5.4 J	26 U
Acetone	67-64-1	ug/m3	8,300	140	5,900	9,900	18	7,900	4,900	31 J	5,400	6,800	13,000
2-Propanol	67-63-0	ug/m3	40 J	13 U	28 J	32 J	6.4 U	28 J	34 J	25 U	48 J	41 J	100
Carbon Disulfide	75-15-0	ug/m3	240	190	140	180	20 J	160	89 J	23 J	64 J	88	140
3-Chloropropene	107-05-1	ug/m3	160 U	4.0 U	78 U	77 U	2.0 U	86 U	90 U	11 U	87 U	78 U	83 U
Methylene Chloride	75-09-2	ug/m3	180 U	1.4 J	86 U	85 U	0.42 J	95 U	100 U	12 U	96 U	87 U	92 U
Methyl tert-butyl ether	1634-04-4	ug/m3	46 U	0.93 U	22 U	22 U	0.47 U	25 U	26 U	2.6 U	25 U	22 U	24 U
trans-1,2-Dichloroethene	156-60-5	ug/m3	44 J	1.0	26	54	0.52 U	25 J	12 J	8.6	17 J	16 J	19 J
Hexane	110-54-3	ug/m3	45 U	2.1 J	22 U	6 J	2.3 U	11 J	25 U	13 U	24 U	5.1 J	23 U
1,1-Dichloroethane	75-34-3	ug/m3	52 U	1.0 U	25 U	25 U	0.53 U	26 U	29 U	2.9 U	28 U	25 U	27 U
2-Butanone (Methyl Ethyl Ketone)	78-93-3	ug/m3	1,100	7.1 J	960	1,700	0.88 J	1,100	900	6.5 J	890	1,100	1,800
cis-1,2-Dichloroethene	156-59-2	ug/m3	750	46	450	540	2.5	360	240	240	170	180	490
Tetrahydrofuran	109-99-9	ug/m3	38 U	3.8 U	19 U	17 J	1.9 U	12 J	15 J	10 U	13 J	15 J	20 U
Chloroform	67-66-3	ug/m3	62 U	10	30 U	8 J	1.2	10 J	8 J	1.6 J	5.0 J	4.8 J	5.7 J
1,1,1-Trichloroethane	71-55-6	ug/m3	70 U	1.4 U	34 U	34 U	0.71 U	37 U	39 U	3.9 U	38 U	34 U	36 U
Cyclohexane	110-82-7	ug/m3	44 U	1.8 J	21 U	21 U	0.50 J	24 U	25 U	12 U	24 U	22 U	23 U
Carbon Tetrachloride	56-23-5	ug/m3	81 U	1.6 U	39 U	39 U	0.82 U	44 U	45 U	4.5 U	44 U	39 U	42 U
2,2,4-Trimethylpentane	540-84-1	ug/m3	8.9 J	6.0 U	29 U	29 U	3.0 U	32 U	34 U	17 U	32 U	29 U	31 U
Benzene	71-43-2	ug/m3	160	0.53 J	100	170	0.11 J	130	120	0.53 J	95	120	66
1,2-Dichloroethane	107-06-2	ug/m3	52 U	1.0 U	25 U	25 U	0.53 U	26 U	29 U	2.9 U	28 U	25 U	27 U
Heptane	142-82-5	ug/m3	40 J	5.3 U	25 U	47	2.7 U	47	30 U	15 U	26 J	17	210
Trichloroethene	79-01-6	ug/m3	1,800	0.40 J	1,000	1,400	0.70 U	880	640	98	470	560	1,200
1,2-Dichloropropane	78-87-5	ug/m3	46 U	1.2 U	31	48	0.60 U	28 J	44	1.5 J	46	35	16 J
1,4-Dioxane	123-91-1	ug/m3	160 U	4.6 U	89 U	89 U	2.4 U	99 U	100 U	13 U	100 U	90 U	96 U
Bromodichloromethane	75-27-4	ug/m3	86 U	1.7 U	42 U	41 U	0.88 U	46 U	48 U	4.8 U	46 U	42 U	44 U
cis-1,3-Dichloropropene	10061-01-5	ug/m3	58 U	1.2 U	28 U	28 U	0.59 U	33 U	33 U	3.3 U	32 U	28 U	30 U
4-Methyl-2-pentanone	108-10-1	ug/m3	210 U	18	100 U	43 J	0.29 J	110 U	120 U	2.9 U	110 U	34 J	44 J
Toluene	108-88-3	ug/m3	120	2.0 J	76	120	0.19 J	85	85	2.7 U	55	120	33
trans-1,3-Dichloropropene	10061-02-6	ug/m3	5 U	1.2 U	28 U	28 U	0.59 U	31 U	33 U	3.2 U	32 U	28 U	30 U
1,1,2-Trichloroethane	79-00-5	ug/m3	70 U	1.4 U	34 U	34 U	0.71 U	37 U	39 U	3.9 U	38 U	34 U	36 U
Tetrachloroethene	127-18-4	ug/m3	150,000	10	76,000	96,000	1.9	65,000	38,000	1,000	33,000	40,000	63,000
2-Hexanone	591-78-6	ug/m3	210 U	5.3 U	100 U	29 J	2.7 U	110 U	120 U	15 U	110 U	100 U	25 J
Dibromochloromethane	124-48-1	ug/m3	110 U	2.2 U	54 U	52 U	1.1 U	58 U	61 U	6.1 U	59 U	53 U	57 U
1,2-Dibromoethane (EDB)	106-93-4	ug/m3	99 U	2.0 U	48 U	47 U	1.0 U	54 U	55 U	5.5 U	54 U	48 U	51 U
Chlorobenzene	108-90-7	ug/m3	59 U	1.2 U	29 U	9 J	0.60 U	32 U	33 U	3.3 U	32 U	29 U	31 U
Ethyl Benzene	100-41-4	ug/m3	46 J	3.7	19 J	25 J	0.16 J	16 J	23 J	3.1 U	10 J	30	10 J
m,p-Xylene	179601-23-1	ug/m3	66	16	48	64	0.48 J	43	44	3.1 U	27 J	64	23 J
o-Xylene	95-47-6	ug/m3	28 J	6.4	19 J	25 J	0.57 U	19 J	18 J	3.1 U	9.8 J	29	29 U
Styrene	100-42-5	ug/m3	35 J	1.1 U	19 J	20 J	0.56 U	16 J	14 J	3.0 U	16 J	23 J	14 J
Bromoform	75-25-2	ug/m3	130 U	2.6 U	64 U	63 U	1.4 U	71 U	73 U	7.4 U	72 U	65 U	69 U
Cumene	98-82-8	ug/m3	16 J	1.3 U	9.4 J	30 U	0.64 U	7.5 J	8.8 J	3.5 U	5.2 J	9.2 J	4.1 J
1,1,2,2-Tetrachloroethane	79-34-5	ug/m3	8.2 U	1.8 U	42 U	42 U	0.90 U	47 U	49 U	4.9 U	48 U	43 U	46 U
Propylbenzene	103-65-1	ug/m3	62 U	1.3 U	30 U	30 U	0.64 U	34 U	35 U	3.5 U	34 U	31 U	3.7 J
4-Ethyltoluene	622-96-8	ug/m3	26 J	1.3 U	6.1 J	22.0 J	0.64 U	15 J	5.5 J	3.5 U	34 U	8.8 J	3.3 U
1,3,5-Trimethylbenzene	108-67-8	ug/m3	15 J	1.3 U	10 J	15 J	0.64 U	10 J	7.3 J	3.5 U	5.8 J	10 J	9.3 J
1,2,4-Trimethylbenzene	95-63-6	ug/m3	82	0.22 J	50	78	0.64 U	51	42	3.5 U	45	62	25 J
1,3-Dichlorobenzene	541-73-1	ug/m3	78 U	1.5 U	37 U	37 U	0.79 U	41 U	42 U	4.3 U	42 U	38 U	40 U
1,4-Dichlorobenzene	106-46-7	ug/m3	78 U	1.5 U	37 U	37 U	0.79 U	41 U	43 U	4.3 U	42 U	38 U	40 U
alpha-Chlorotoluene	100-44-7	ug/m3	67 U	1.3 U	32 U	32 U	0.68 U	35 U	37 U	3.7 U	36 U	32 U	34 U
1,2-Dichlorobenzene	95-50-1	ug/m3	78 U	1.5 U	37 U	37 U	0.79 U	41 U	43 U	4.3 U	42 U	38 U	40 U
1,2,4-Trichlorobenzene	120-82-1	ug/m3	380 U	10 U	180 U	190 U	4.9 U	200 U	210 U	26 U	210 U	190 U	200 U
Hexachlorobutadiene	87-68-3	ug/m3	550 U	14 U	260 U	260 U	7.0 U	290 U	310 U	38 U	300 U	270 U	280 U
Naphthalene	91-20-3	ug/m3	42 J	0.11 J	27 J	29 J	1.4 U	19 J	150 U	7.5 U	140 U	12 J	13 J

U = Compound not detected at reporting limit shown
J = Estimated concentration, below the reporting limit but above the Method Dete

Terratherm
Jacksonville NS Site
Process Vapor Summary

Compounds	CAS	Unit	VGAL Effluent 4/30/2024
Volatile Organic Compounds (EPA TO-15)			
Freon 12	75-71-8	ug/m3	1.9 J
Freon 114	76-14-2	ug/m3	1.0 U
Chloromethane	74-87-3	ug/m3	7.4
Vinyl Chloride	75-01-4	ug/m3	3.5
1,3 Butadiene	106-99-0	ug/m3	0.32 U
Bromomethane	74-83-9	ug/m3	2.8 U
Chloroethane	75-00-3	ug/m3	0.71 J
Freon 11	75-69-4	ug/m3	0.43 J
Ethanol	64-17-5	ug/m3	17
Freon 113	76-13-1	ug/m3	1.1 U
1,1 Dichloroethene	75-35-4	ug/m3	4.2
Acetone	67-64-1	ug/m3	39
2 Propanol	67-63-0	ug/m3	1.0 J
Carbon Disulfide	75-15-0	ug/m3	14 J
3 Chloropropene	107-05-1	ug/m3	2.1 U
Methylene Chloride	75-09-2	ug/m3	0.59 J
Methyl tert butyl ether	1634-04-4	ug/m3	0.53 U
trans-1,2 Dichloroethene	156-60-5	ug/m3	2.6
Hexane	110-54-3	ug/m3	2.6 U
1,1-Dichloroethane	75-34-3	ug/m3	0.60 U
2 Butanone (Methyl Ethyl Ketone)	78-93-3	ug/m3	8.7 U
cis-1,2-Dichloroethene	156-59-2	ug/m3	140
Tetrahydrofuran	109-99-9	ug/m3	2.8
Chloroform	67-66-3	ug/m3	0.89
1,1,1-Trichloroethane	71-55-6	ug/m3	0.80 U
Cyclohexane	110-82-7	ug/m3	2.5 U
Carbon Tetrachloride	56-23-5	ug/m3	0.94 U
2,2,4-Trimethylpentane	540-84-1	ug/m3	3.4 U
Benzene	71-43-2	ug/m3	0.17 J
1,2 Dichloroethane	107-06-2	ug/m3	0.59 U
Heptane	142-82-5	ug/m3	3.0 U
Trichloroethene	79-01-6	ug/m3	12
1,2 Dichloropropane	78-87-5	ug/m3	0.39 J
1,4 Dioxane	123-91-1	ug/m3	2.6 U
Bromodichloromethane	75-27-4	ug/m3	0.98 U
cis-1,3-Dichloropropene	10061-01-5	ug/m3	0.67 U
4 Methyl-2-pentanone	108-10-1	ug/m3	1.4
Toluene	108-88-3	ug/m3	0.48 J
trans-1,3-Dichloropropene	10061-02-6	ug/m3	0.67 U
1,1,2 Trichloroethane	79-00-5	ug/m3	0.80 U
Tetrachloroethene	127-18-4	ug/m3	2.9
2 Hexanone	591-78-6	ug/m3	3.0 U
Dibromochloromethane	124-48-1	ug/m3	1.2 U
1,2-Dibromoethane (EDB)	106-93-4	ug/m3	1.1 U
Chlorobenzene	108-90-7	ug/m3	0.82 U
Ethyl Benzene	100-41-4	ug/m3	0.58 J
m,p-Xylene	179601-23-1	ug/m3	1.9
o-Xylene	95-47-6	ug/m3	0.83
Styrene	100-42-5	ug/m3	0.81 U
Bromoform	75-25-2	ug/m3	1.5 U
Cumene	98-82-8	ug/m3	0.72 U
1,1,2,2 Tetrachloroethane	79-34-5	ug/m3	1.0 U
Propylbenzene	103-65-1	ug/m3	0.72 U
2 Ethyltoluene	622-96-8	ug/m3	0.72 U
1,3,5-Trimethylbenzene	108-67-8	ug/m3	0.72 U
1,2,4-Trimethylbenzene	95-63-6	ug/m3	0.72 U
1,3 Dichlorobenzene	541-73-1	ug/m3	0.88 U
1,4 Dichlorobenzene	106-46-7	ug/m3	0.88 U
alpha Chlorotoluene	100-44-7	ug/m3	0.76 U
1,2-Dichlorobenzene	95-50-1	ug/m3	0.88 U
1,2,4-Trichlorobenzene	120-82-1	ug/m3	5.4 U
Hexachlorobutadiene	87-68-3	ug/m3	7.6 U
Naphthalene	91-20-3	ug/m3	1.5 U

U = Compound not detected at reporting limit shown.
J = Estimated concentration; below the reporting limit but above the Method Detec

Appendix E

Confirmatory Soil Sampling Results

TerraTherm
Jacksonville, NC Site
Indoor Air Summary

				SB-6				SB-4				
Compounds	CAS	Unit	Goal	POST-SO-SB6-05-04022024 4/2/2024	POST-SO-SB6-10-04022024 4/2/2024	POST-SO-SB6-15-04022024 4/2/2024	POST-SO-SB6-20-04022024 4/2/2024	POST-SO-SB4-05-04032024 4/3/2024	POST-SO-SB4-10-04032024 4/3/2024	POST-SO-SB4-15-04032024 4/3/2024	POST-SO-SB4-20-04032024 4/3/2024	POST-SO-SB4-25-04032024 4/3/2024
Volatile Organic Compounds (EPA TO-15)												
1,1,1,2-Tetrachloroethane	630-20-6	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,1,1-Trichloroethane	71-55-6	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/kg		19 UH	22 UH	20 UH	19 UH	30 U	23 U	21 U	21 U	21 U
1,1,2-Trichloroethane	79-00-5	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,1-Dichloroethane	75-34-3	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,1-Dichloroethene	75-35-4	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,1-Dichloropropene	563-58-6	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,2,3-Trichloropropane	96-18-4	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,2,4-Trichlorobenzene	120-82-1	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	11 U	11 U
1,2-Dichlorobenzene	95-50-1	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,2-Dichloroethane	107-06-2	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,2-Dichloropropane	78-87-5	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,3,5-Trimethylbenzene	108-67-8	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,3-Dichlorobenzene	541-73-1	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,3-Dichloropropane	142-28-9	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,3-Dichloropropene, Total	542-75-6	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
1,4-Dichlorobenzene	106-46-7	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
2,2-Dichloropropane	594-20-7	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
2-Butanone (MEK)	78-93-3	ug/kg		93 H	22 UH	20 UH	19 UH	57	23 U	21 U	21 U	21 U
2-Chlorotoluene	95-49-8	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
2-Hexanone	591-78-6	ug/kg		19 UH	22 UH	20 UH	19 UH	30 U	23 U	21 U	21 U	21 U
3-Chloro-1-propene	107-05-1	ug/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	11 U	11 U
4-Chlorotoluene	106-43-4	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
4-Isopropyltoluene	99-87-6	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg		19 UH	22 UH	20 UH	19 UH	30 U	23 U	21 U	21 U	21 U
Acetone	67-64-1	ug/kg		730 H	120 H	83 H	76 UH	480	180	110	160	84 U
Benzene	71-43-2	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Bromobenzene	108-86-1	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Bromoform	75-25-2	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Bromomethane	74-83-9	ug/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	11 U	11 U
Carbon disulfide	75-15-0	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Carbon tetrachloride	56-23-5	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Chlorobenzene	108-90-7	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Chlorobromomethane	74-97-5	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Chlorodibromomethane	124-48-1	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Chloroethane	75-00-3	ug/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	11 U	11 U
Chloroform	67-66-3	ug/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	11 U	11 U
Chloromethane	74-87-3	ug/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	11 U	11 U
cis-1,2-Dichloroethene	156-59-2	ug/kg		7.8 H	2.7 UH	2.5 UH	2.4 UH	3.7 U	2.9 U	2.6 U	2.6 U	2.6 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Cyclohexane	110-82-7	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Dibromomethane	74-95-3	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Dichlorobromomethane	75-27-4	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Dichlorodifluoromethane	75-71-8	ug/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	11 U	11 U
Ethyl ether	60-29-7	ug/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	11 U	11 U
Ethyl methacrylate	97-63-2	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Ethylbenzene	100-41-4	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Ethylene Dibromide	106-93-4	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Hexachlorobutadiene	87-68-3	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Hexane	110-54-3	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Iodomethane	74-88-4	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Isopropylbenzene	98-82-8	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Methyl acetate	79-20-9	ug/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	11 U	11 U
Methyl tert-butyl ether	1634-04-4	ug/kg		19 UH	22 UH	20 UH	19 UH	30 U	23 U	21 U	21 U	21 U
Methylcyclohexane	108-87-2	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Methylene Chloride	75-09-2	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
m-Xylene & p-Xylene	179601-23-1	ug/kg		2.4 UH	2.7 UH	2.5 UH	2.4 UH	3.7 U	2.9 U	2.6 U	2.6 U	2.6 U
Naphthalene	91-20-3	ug/kg		6.3 UH	7.2 UH	6.5 UH	6.3 UH	9.8 U	7.7 U	6.9 U	6.9 U	7.0 U
n-Butylbenzene	104-51-8	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
N-Propylbenzene	103-65-1	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
o-Xylene	95-47-6	ug/kg		2.4 UH	2.7 UH	2.5 UH	2.4 UH	3.7 U	2.9 U	2.6 U	2.6 U	2.6 U
sec-Butylbenzene	135-98-8	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Styrene	100-42-5	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
tert-Butylbenzene	98-06-6	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Tetrachloroethene	127-18-4	ug/kg	6.3	93 H	5.4 UH	4.9 UH	4.8 UH	280	5.8 U	5.2 U	5.3 U	5.3 U
Tetrahydrofuran	109-99-9	ug/kg		19 UH	22 UH	20 UH	19 UH	30 U	23 U	21 U	21 U	21 U
Toluene	108-88-3	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
trans-1,2-Dichloroethene	156-60-5	ug/kg		2.4 UH	2.7 UH	2.5 UH	2.4 UH	3.7 U	2.9 U	2.6 U	2.6 U	2.6 U
trans-1,3-Dichloropropene	10061-02-6	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Trichloroethene	79-01-6	ug/kg		15 H	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U
Trichlorofluoromethane	75-69-4	ug/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	11 U	11 U
Vinyl acetate	108-05-4	ug/kg		9.5 UH	11 UH	9.8 UH	9.5 UH	15 U	12 U	10 U	11 U	11 U
Vinyl chloride	75-01-4	ug/kg		4.8 UH	5.4 UH	4.9 UH	4.8 UH	7.4 U	5.8 U	5.2 U	5.3 U	5.3 U

U = Compound not detected at reporting limit shown.
J = Estimated concentration; below the reporting limit but above the Method Detection Limit (MDL).
H = Sample was prepped or analyzed beyond the specified (48hr) holding time.
F1 = MS and/or MSD recovery exceeds control limits.
F2 = MS/MSD RPD exceeds control limits

TerraTherm
Jacksonville, NC Site
Indoor Air Summary

			SB-4						SB-5				
Compounds	CAS	Unit	POST-SO-SB4-30-04032024 4/3/2024	POST-SO-SB4-35-04032024 4/3/2024	POST-SO-SB4-40-04032024 4/3/2024	POST-SO-SB4-45-04032024 4/3/2024	POST-SO-SB4-50-04032024 4/3/2024	DUP-SO-1-04032024 4/3/2024	POST-SO-SB5-05-04032024 4/3/2024	POST-SO-SB5-10-04032024 4/3/2024	POST-SO-SB5-15-04032024 4/3/2024	POST-SO-SB5-20-04032024 4/3/2024	POST-SO-SB5-25-04032024 4/3/2024
Volatile Organic Compounds (EPA TO-15)													
1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,1,1-Trichloroethane	71-55-6	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/kg	24 U	26 U	25 U	26 U	28 U	24 UH	23 U	22 U	31 U	25 U	22 U
1,1,2-Trichloroethane	79-00-5	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,1-Dichloroethane	75-34-3	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,1-Dichloroethene	75-35-4	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,1-Dichloropropene	563-58-6	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,2,3-Trichloropropane	96-18-4	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,2,4-Trichlorobenzene	120-82-1	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	12 U	13 U	12 U	13 U	14 U	12 UH	12 U	11 U	16 U	12 U	11 U
1,2-Dichlorobenzene	95-50-1	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,2-Dichloroethane	107-06-2	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,2-Dichloropropane	78-87-5	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,3,5-Trimethylbenzene	108-67-8	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,3-Dichlorobenzene	541-73-1	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,3-Dichloropropane	142-28-9	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,3-Dichloropropene, Total	542-75-6	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
1,4-Dichlorobenzene	106-46-7	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
2,2-Dichloropropane	594-20-7	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
2-Butanone (MEK)	78-93-3	ug/kg	24 U	26 U	25 U	26 U	28 U	24 UH	23 U	22 U	31 U	25 U	22 U
2-Chlorotoluene	95-49-8	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
2-Hexanone	591-78-6	ug/kg	24 U	26 U	25 U	26 U	28 U	24 UH	23 U	22 U	31 U	25 U	22 U
3-Chloro-1-propene	107-05-1	ug/kg	12 U	13 U	12 U	13 U	14 U	12 UH	12 U	11 U	16 U	12 U	11 U
4-Chlorotoluene	106-43-4	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
4-Isopropyltoluene	99-87-6	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	24 U	26 U	25 U	26 U	28 U	24 UH	23 U	22 U	31 U	25 U	22 U
Acetone	67-64-1	ug/kg	98 U	100 U	99 U	100 U	110 U	110 H	93 U	88 U	130 U	99 U	90 U
Benzene	71-43-2	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Bromobenzene	108-86-1	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Bromoform	75-25-2	ug/kg	6.1 UF1	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U-	5.5 U-	7.8 U-	6.2 U-	5.6 U-
Bromomethane	74-83-9	ug/kg	12 UF1	13 U	12 U	13 U	14 U	12 UH	12 U	11 U	16 U	12 U	11 U
Carbon disulfide	75-15-0	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Carbon tetrachloride	56-23-5	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Chlorobenzene	108-90-7	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Chlorobromomethane	74-97-5	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Chlorodibromomethane	124-48-1	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Chloroethane	75-00-3	ug/kg	12 UF1	13 U	12 U	13 U	14 U	12 UH	12 U	11 U	16 U	12 U	11 U
Chloroform	67-66-3	ug/kg	12 U	13 U	12 U	13 U	14 U	12 UH	12 U	11 U	16 U	12 U	11 U
Chloromethane	74-87-3	ug/kg	12 U	13 U	12 U	13 U	14 U	12 UH	12 U1	11 U1	16 U1	12 U1	11 U1
cis-1,2-Dichloroethene	156-59-2	ug/kg	3.1 U	3.2 U	3.1 U	3.3 U	3.5 U	3.0 UH	2.9 U	2.7 U	3.9 U	3.1 U	2.8 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Cyclohexane	110-82-7	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Dibromomethane	74-95-3	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Dichlorobromomethane	75-27-4	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Dichlorodifluoromethane	75-71-8	ug/kg	12 UF1	13 U	12 U	13 U	14 U	12 UH	12 U	11 U	16 U	12 U	11 U
Ethyl ether	60-29-7	ug/kg	12 U	13 U	12 U	13 U	14 U	12 UH	12 U	11 U	16 U	12 U	11 U
Ethyl methacrylate	97-63-2	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Ethylbenzene	100-41-4	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Ethylene Dibromide	106-93-4	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Hexachlorobutadiene	87-68-3	ug/kg	6.1 UF1	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Hexane	110-54-3	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Iodomethane	74-88-4	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Isopropylbenzene	98-82-8	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Methyl acetate	79-20-9	ug/kg	12 U	13 U	12 U	13 U	14 U	12 UH	12 U	11 U	16 U	12 U	11 U
Methyl tert-butyl ether	1634-04-4	ug/kg	24 U	26 U	25 U	26 U	28 U	24 UH	23 U	22 U	31 U	25 U	22 U
Methylcyclohexane	108-87-2	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Methylene Chloride	75-09-2	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
m-Xylene & p-Xylene	179601-23-1	ug/kg	3.1 U	3.2 U	3.1 U	3.3 U	3.5 U	3.0 UH	2.9 U	2.7 U	3.9 U	3.1 U	2.8 U
Naphthalene	91-20-3	ug/kg	8.1 U	8.5 U	8.2 U	8.6 U	9.4 U	7.8 UH	7.7 U	7.2 U	10.0 U	8.2 U	7.4 U
n-Butylbenzene	104-51-8	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
N-Propylbenzene	103-65-1	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
o-Xylene	95-47-6	ug/kg	3.1 U	3.2 U	3.1 U	3.3 U	3.5 U	3.0 UH	2.9 U	2.7 U	3.9 U	3.1 U	2.8 U
sec-Butylbenzene	135-98-8	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Styrene	100-42-5	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
tert-Butylbenzene	98-06-6	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Tetrachloroethene	127-18-4	ug/kg	6.1 UF1	6.5 U	27	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U			
Tetrahydrofuran	109-99-9	ug/kg	24 U	26 U	25 U	26 U	28 U	24 UH	23 U	22 U	31 U	25 U	22 U
Toluene	108-88-3	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
trans-1,2-Dichloroethene	156-60-5	ug/kg	3.1 U	3.2 U	3.1 U	3.3 U	3.5 U	3.0 UH	2.9 U	2.7 U	3.9 U	3.1 U	2.8 U
trans-1,3-Dichloropropene	10061-02-6	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Trichloroethene	79-01-6	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U
Trichlorofluoromethane	75-69-4	ug/kg	12 UF1	13 U	12 U	13 U	14 U	12 UH	12 U	11 U	16 U	12 U	11 U
Vinyl acetate	108-05-4	ug/kg	12 U	13 U	12 U	13 U	14 U	12 UH	12 U	11 U	16 U	12 U	11 U
Vinyl chloride	75-01-4	ug/kg	6.1 U	6.5 U	6.2 U	6.5 U	7.1 U	5.9 UH	5.8 U	5.5 U	7.8 U	6.2 U	5.6 U

U = Compound not detected at reporting limit shown.
I = Estimated concentration; below the reporting limit but above th
H = Sample was prepped or analyzed beyond the specified (48hr) ht
F1 = MS and/or MSD recovery exceeds control limits.
F2 = MS/MSD RPD exceeds control limits

TerraTherm
Jacksonville, NC Site
Indoor Air Summary

				SB-1					SB-2				
Compounds	CAS	Unit	DUP-SO-2-04032024 4/3/2024	POST-SO-SB1-05-04042024 4/4/2024	POST-SO-SB1-10-04042024 4/4/2024	POST-SO-SB1-15-04042024 4/4/2024	POST-SO-SB1-20-04042024 4/4/2024	DUP-SO-1-04042024 4/4/2024	POST-SO-SB2-05-04042024 4/4/2024	POST-SO-SB2-10-04042024 4/4/2024	POST-SO-SB2-15-04042024 4/4/2024	POST-SO-SB2-20-04042024 4/4/2024	POST-SO-SB2-25-04042024 4/4/2024
Volatile Organic Compounds (EPA TO-15)													
1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,1,1-Trichloroethane	71-55-6	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/kg	21 U	21 U	26 UF1F2	21 U	21 U	21 U	22 U	24 U	22 U	18 U	21 U
1,1,2-Trichloroethane	79-00-5	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,1-Dichloroethane	75-34-3	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,1-Dichloroethene	75-35-4	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,1-Dichloropropene	563-58-6	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,2,3-Trichloropropane	96-18-4	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,2,4-Trichlorobenzene	120-82-1	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	10 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U
1,2-Dichlorobenzene	95-50-1	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,2-Dichloroethane	107-06-2	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,2-Dichloropropane	78-87-5	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,3,5-Trimethylbenzene	108-67-8	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,3-Dichlorobenzene	541-73-1	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,3-Dichloropropane	142-28-9	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,3-Dichloropropene, Total	542-75-6	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
1,4-Dichlorobenzene	106-46-7	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
2,2-Dichloropropane	594-20-7	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
2-Butanone (MEK)	78-93-3	ug/kg	21 U	21 U	26 UF2	21 U	21 U	30	22 U	24 U	22 U	18 U	21 U
2-Chlorotoluene	95-49-8	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
2-Hexanone	591-78-6	ug/kg	21 U	21 U	26 UF1F2	21 U	21 U	21 U	22 U	24 U	22 U	18 U	21 U
3-Chloro-1-propene	107-05-1	ug/kg	10 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U
4-Chlorotoluene	106-43-4	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
4-Isopropyltoluene	99-87-6	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	21 U	21 U	26 UF1F2	21 U	21 U	21 U	22 U	24 U	22 U	18 U	21 U
Acetone	67-64-1	ug/kg	83 U	85 U	100 UF1F2	83 U	120	220	140	95 U	220	220	84 U
Benzene	71-43-2	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Bromobenzene	108-86-1	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Bromoform	75-25-2	ug/kg	5.2 U-	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U-	5.9 U	5.4 U	4.4 U	5.2 U
Bromomethane	74-83-9	ug/kg	10 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U
Carbon disulfide	75-15-0	ug/kg	5.2 U	5.3 U	6.4 UF2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Carbon tetrachloride	56-23-5	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Chlorobenzene	108-90-7	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Chlorobromomethane	74-97-5	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Chlorodibromomethane	124-48-1	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Chloroethane	75-00-3	ug/kg	10 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U
Chloroform	67-66-3	ug/kg	10 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U
Chloromethane	74-87-3	ug/kg	10 U1	11 U	13 UF2	10 U	10 U	11 U	11 U1	12 U	11 U	8.8 U	10 U
cis-1,2-Dichloroethene	156-59-2	ug/kg	2.6 U	2.7 U	3.2 UF1F2	2.6 U	2.6 U	2.7 U	2.7 U	3.0 U	2.7 U	2.2 U	2.6 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Cyclohexane	110-82-7	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Dibromomethane	74-95-3	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Dichlorobromomethane	75-27-4	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Dichlorodifluoromethane	75-71-8	ug/kg	10 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U
Ethyl ether	60-29-7	ug/kg	10 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U
Ethyl methacrylate	97-63-2	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Ethylbenzene	100-41-4	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Ethylene Dibromide	106-93-4	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Hexachlorobutadiene	87-68-3	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Hexane	110-54-3	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Iodomethane	74-88-4	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Isopropylbenzene	98-82-8	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Methyl acetate	79-20-9	ug/kg	10 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U
Methyl tert-butyl ether	1634-04-4	ug/kg	21 U	21 U	26 UF1F2	21 U	21 U	21 U	22 U	24 U	22 U	18 U	21 U
Methylcyclohexane	108-87-2	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Methylene Chloride	75-09-2	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
m-Xylene & p-Xylene	179601-23-1	ug/kg	2.6 U	2.7 U	3.2 UF1F2	2.6 U	2.6 U	2.7 U	2.7 U	3.0 U	2.7 U	2.2 U	2.6 U
Naphthalene	91-20-3	ug/kg	6.9 U	7.0 U	8.5 UF1F2	6.8 U	6.8 U	7.0 U	7.2 U	7.8 U	7.1 U	5.8 U	6.9 U
n-Butylbenzene	104-51-8	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
N-Propylbenzene	103-65-1	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
o-Xylene	95-47-6	ug/kg	2.6 U	2.7 U	3.2 UF1F2	2.6 U	2.6 U	2.7 U	2.7 U	3.0 U	2.7 U	2.2 U	2.6 U
sec-Butylbenzene	135-98-8	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Styrene	100-42-5	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
tert-Butylbenzene	98-06-6	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Tetrachloroethene	127-18-4	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Tetrahydrofuran	109-99-9	ug/kg	21 U	21 U	26 UF1F2	21 U	21 U	21 U	22 U	24 U	22 U	18 U	21 U
Toluene	108-88-3	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
trans-1,2-Dichloroethene	156-60-5	ug/kg	2.6 U	2.7 U	3.2 UF1F2	2.6 U	2.6 U	2.7 U	2.7 U	3.0 U	2.7 U	2.2 U	2.6 U
trans-1,3-Dichloropropene	10061-02-6	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Trichloroethene	79-01-6	ug/kg	5.2 U	5.3 U	6.4 UF1F2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U
Trichlorofluoromethane	75-69-4	ug/kg	10 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U
Vinyl acetate	108-05-4	ug/kg	10 U	11 U	13 UF1F2	10 U	10 U	11 U	11 U	12 U	11 U	8.8 U	10 U
Vinyl chloride	75-01-4	ug/kg	5.2 U	5.3 U	6.4 UF2	5.2 U	5.2 U	5.3 U	5.5 U	5.9 U	5.4 U	4.4 U	5.2 U

U = Compound not detected at reporting limit shown.
J = Estimated concentration; below the reporting limit but above th
H = Sample was prepped or analyzed beyond the specified (48hr) ho
F1 = MS and/or MSD recovery exceeds control limits.
F2 = MS/MSD RPD exceeds control limits

TerraTherm
Jacksonville, NC Site
Indoor Air Summary

Compounds	CAS	Unit	POST-SO-SB2-30-04042024 4/4/2024	DUP-SO-2-04042024 4/4/2024	SB-3 POST-SO-SB3-05-04042024 4/4/2024	POST-SO-SB3-10-04042024 4/4/2024	POST-SO-SB3-15-04042024 4/4/2024	POST-SO-SB3-20-04042024 4/4/2024	POST-SO-SB3-25-04042024 4/4/2024
Volatile Organic Compounds (EPA TO-15)									
1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,1,1-Trichloroethane	71-55-6	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/kg	21 U	23 U	26 U	22 U	23 U	24 U	24 U
1,1,2-Trichloroethane	79-00-5	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,1-Dichloroethane	75-34-3	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,1-Dichloroethene	75-35-4	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,1-Dichloropropene	563-58-6	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,2,3-Trichloropropane	96-18-4	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,2,4-Trichlorobenzene	120-82-1	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	10 U	12 U	13 U	11 U	12 U	12 U	12 U
1,2-Dichlorobenzene	95-50-1	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,2-Dichloroethane	107-06-2	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,2-Dichloropropane	78-87-5	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,3,5-Trimethylbenzene	108-67-8	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,3-Dichlorobenzene	541-73-1	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,3-Dichloropropane	142-28-9	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,3-Dichloropropene, Total	542-75-6	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
1,4-Dichlorobenzene	106-46-7	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
2,2-Dichloropropane	594-20-7	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
2-Butanone (MEK)	78-93-3	ug/kg	21 U	23 U	26 U	22 U	23 U	24 U	24 U
2-Chlorotoluene	95-49-8	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
2-Hexanone	591-78-6	ug/kg	21 U	23 U	26 U	22 U	23 U	24 U	24 U
3-Chloro-1-propene	107-05-1	ug/kg	10 U	12 U	13 U	11 U	12 U	12 U	12 U
4-Chlorotoluene	106-43-4	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
4-Isopropyltoluene	99-87-6	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	21 U	23 U	26 U	22 U	23 U	24 U	24 U
Acetone	67-64-1	ug/kg	84 U	94 U	100 U	88 U	93 U	94 U	96 U
Benzene	71-43-2	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Bromobenzene	108-86-1	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Bromoform	75-25-2	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Bromomethane	74-83-9	ug/kg	10 U	12 U	13 U	11 U	12 U	12 U	12 U
Carbon disulfide	75-15-0	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Carbon tetrachloride	56-23-5	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Chlorobenzene	108-90-7	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Chlorobromomethane	74-97-5	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Chlorodibromomethane	124-48-1	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Chloroethane	75-00-3	ug/kg	10 U	12 U	13 U	11 U	12 U	12 U	12 U
Chloroform	67-66-3	ug/kg	10 U	12 U	13 U	11 U	12 U	12 U	12 U
Chloromethane	74-87-3	ug/kg	10 U	12 U	13 U	11 U	12 U	12 U	12 U
cis-1,2-Dichloroethene	156-59-2	ug/kg	2.6 U	2.9 U	3.3 U	2.8 U	2.9 U	2.9 U	3.0 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Cyclohexane	110-82-7	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Dibromomethane	74-95-3	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Dichlorobromomethane	75-27-4	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Dichlorodifluoromethane	75-71-8	ug/kg	10 U	12 U	13 U	11 U	12 U	12 U	12 U
Ethyl ether	60-29-7	ug/kg	10 U	12 U	13 U	11 U	12 U	12 U	12 U
Ethyl methacrylate	97-63-2	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Ethylbenzene	100-41-4	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Ethylene Dibromide	106-93-4	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Hexachlorobutadiene	87-68-3	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Hexane	110-54-3	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Iodomethane	74-88-4	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Isopropylbenzene	98-82-8	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Methyl acetate	79-20-9	ug/kg	10 U	12 U	13 U	11 U	12 U	12 U	12 U
Methyl tert-butyl ether	1634-04-4	ug/kg	21 U	23 U	26 U	22 U	23 U	24 U	24 U
Methylcyclohexane	108-87-2	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Methylene Chloride	75-09-2	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
m-Xylene & p-Xylene	179601-23-1	ug/kg	2.6 U	2.9 U	3.3 U	2.8 U	2.9 U	2.9 U	3.0 U
Naphthalene	91-20-3	ug/kg	6.9 U	7.7 U	8.6 U	7.3 U	7.7 U	7.8 U	7.9 U
n-Butylbenzene	104-51-8	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
N-Propylbenzene	103-65-1	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
o-Xylene	95-47-6	ug/kg	2.6 U	2.9 U	3.3 U	2.8 U	2.9 U	2.9 U	3.0 U
sec-Butylbenzene	135-98-8	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Styrene	100-42-5	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
tert-Butylbenzene	98-06-6	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Tetrachloroethene	127-18-4	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Tetrahydrofuran	109-99-9	ug/kg	21 U	23 U	26 U	22 U	23 U	24 U	24 U
Toluene	108-88-3	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
trans-1,2-Dichloroethene	156-60-5	ug/kg	2.6 U	2.9 U	3.3 U	2.8 U	2.9 U	2.9 U	3.0 U
trans-1,3-Dichloropropene	10061-02-6	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Trichloroethene	79-01-6	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U
Trichlorofluoromethane	75-69-4	ug/kg	10 U	12 U	13 U	11 U	12 U	12 U	12 U
Vinyl acetate	108-05-4	ug/kg	10 U	12 U	13 U	11 U	12 U	12 U	12 U
Vinyl chloride	75-01-4	ug/kg	5.2 U	5.9 U	6.6 U	5.5 U	5.8 U	5.9 U	6.0 U

U = Compound not detected at reporting limit shown.
J = Estimated concentration; below the reporting limit but above th
H = Sample was prepped or analyzed beyond the specified (48hr) ho
F1 = MS and/or MSD recovery exceeds control limits.
F2 = MS/MSD RPD exceeds control limits

TerraTherm
Jacksonville, NC Site
Indoor Air Summary

			SB-3				
Compounds	CAS	Unit	POST-SO-SB3-30-04042024 4/4/2024	POST-SO-SB3-35-04042024 4/4/2024	POST-SO-SB3-40-04042024 4/4/2024	POST-SO-SB3-45-04042024 4/4/2024	POST-SO-SB3-50-04042024 4/4/2024
Volatile Organic Compounds (EPA TO-15)							
1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,1,1-Trichloroethane	71-55-6	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/kg	26 U	24 U	22 U	24 U	23 U
1,1,2-Trichloroethane	79-00-5	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,1-Dichloroethane	75-34-3	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,1-Dichloroethene	75-35-4	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,1-Dichloropropene	563-58-6	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,2,3-Trichloropropane	96-18-4	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,2,4-Trichlorobenzene	120-82-1	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	13 U	12 U	11 U	12 U	12 U
1,2-Dichlorobenzene	95-50-1	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,2-Dichloroethane	107-06-2	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,2-Dichloropropane	78-87-5	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,3,5-Trimethylbenzene	108-67-8	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,3-Dichlorobenzene	541-73-1	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,3-Dichloropropane	142-28-9	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,3-Dichloropropene, Total	542-75-6	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
1,4-Dichlorobenzene	106-46-7	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
2,2-Dichloropropane	594-20-7	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
2-Butanone (MEK)	78-93-3	ug/kg	26 U	24 U	22 U	24 U	23 U
2-Chlorotoluene	95-49-8	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
2-Hexanone	591-78-6	ug/kg	26 U	24 U	22 U	24 U	23 U
3-Chloro-1-propene	107-05-1	ug/kg	13 U	12 U	11 U	12 U	12 U
4-Chlorotoluene	106-43-4	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
4-Isopropyltoluene	99-87-6	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	26 U	24 U	22 U	24 U	23 U
Acetone	67-64-1	ug/kg	100 U	95 U	86 U	94 U	94 U
Benzene	71-43-2	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Bromobenzene	108-86-1	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Bromoform	75-25-2	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Bromomethane	74-83-9	ug/kg	13 U	12 U	11 U	12 U	12 U
Carbon disulfide	75-15-0	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Carbon tetrachloride	56-23-5	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Chlorobenzene	108-90-7	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Chlorobromomethane	74-97-5	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Chlorodibromomethane	124-48-1	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Chloroethane	75-00-3	ug/kg	13 U	12 U	11 U	12 U	12 U
Chloroform	67-66-3	ug/kg	13 U	12 U	11 U	12 U	12 U
Chloromethane	74-87-3	ug/kg	13 U	12 U	11 U	12 U	12 U
cis-1,2-Dichloroethene	156-59-2	ug/kg	3.2 U	3.0 U	2.7 U	2.9 U	2.9 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Cyclohexane	110-82-7	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Dibromomethane	74-95-3	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Dichlorobromomethane	75-27-4	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Dichlorodifluoromethane	75-71-8	ug/kg	13 U	12 U	11 U	12 U	12 U
Ethyl ether	60-29-7	ug/kg	13 U	12 U	11 U	12 U	12 U
Ethyl methacrylate	97-63-2	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Ethylbenzene	100-41-4	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Ethylene Dibromide	106-93-4	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Hexachlorobutadiene	87-68-3	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Hexane	110-54-3	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Iodomethane	74-88-4	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Isopropylbenzene	98-82-8	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Methyl acetate	79-20-9	ug/kg	13 U	12 U	11 U	12 U	12 U
Methyl tert-butyl ether	1634-04-4	ug/kg	26 U	24 U	22 U	24 U	23 U
Methylcyclohexane	108-87-2	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Methylene Chloride	75-09-2	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
m-Xylene & p-Xylene	179601-23-1	ug/kg	3.2 U	3.0 U	2.7 U	2.9 U	2.9 U
Naphthalene	91-20-3	ug/kg	8.5 U	7.8 U	7.1 U	7.8 U	7.7 U
n-Butylbenzene	104-51-8	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
N-Propylbenzene	103-65-1	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
o-Xylene	95-47-6	ug/kg	3.2 U	3.0 U	2.7 U	2.9 U	2.9 U
sec-Butylbenzene	135-98-8	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Styrene	100-42-5	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
tert-Butylbenzene	98-06-6	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Tetrachloroethene	127-18-4	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Tetrahydrofuran	109-99-9	ug/kg	26 U	24 U	22 U	24 U	23 U
Toluene	108-88-3	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
trans-1,2-Dichloroethene	156-60-5	ug/kg	3.2 U	3.0 U	2.7 U	2.9 U	2.9 U
trans-1,3-Dichloropropene	10061-02-6	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Trichloroethene	79-01-6	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U
Trichlorofluoromethane	75-69-4	ug/kg	13 U	12 U	11 U	12 U	12 U
Vinyl acetate	108-05-4	ug/kg	13 U	12 U	11 U	12 U	12 U
Vinyl chloride	75-01-4	ug/kg	6.5 U	5.9 U	5.4 U	5.9 U	5.9 U

U = Compound not detected at reporting limit shown.
J = Estimated concentration; below the reporting limit but above th
H = Sample was prepped or analyzed beyond the specified (48hr) h
F1 = MS and/or MSD recovery exceeds control limits.
F2 = MS/MSD RPD exceeds control limits

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Appendix C

Waste Disposal Documentation

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CLEAN MANAGEMENT
ENVIRONMENTAL GROUP, INC.

915 Industrial Rd. Walterboro, SC 29488
(843) 538-8131

INVOICE

DEAL #	DATE	INVOICE NO.
7939	7/28/2023	84283

PAID
08/22/2023

BILL TO

EA ENGINEERING, SCIENCE, AND
TECHNOLOGY, INC., PBC
ATTN: ACCOUNTS PAYABLE
225 SCHILING CIRCLE, SUITE 400
HUNT VALLEY, MD 21031

1992 2024
32 YEARS
OF EXCELLENCE

P.O. NO.	TERMS	DUE DATE	REP	SHIP DATE	MANIFEST #	LOCATION
25360	NET 30	8/27/2023	SDB		SEE BELOW	ABC ONE HOUR SUPERFUND

DESCRIPTION	QTY	RATE	AMOUNT
ROLL OFF RENTAL (JULY 1 - JULY 11) - SOIL	11	16.66	183.26
ROLL OFF RENTAL (JULY 1 - JULY 31) - 2ND BOX SOIL	31	16.66	516.46
SOIL T&D	18.58	238.00	4,422.04
55 GAL SOIL DRUM T&D	10	118.00	1,180.00
FREIGHT DRUM PICKUP	1	160.00	160.00
ANY ADDITIONAL SURCHARGES WILL BE INVOICED SEPARATELY			0.00

AN INTEREST CHARGE OF 1 ½ PERCENT PER MONTH SHALL BE DUE ON ALL BILLS MORE THAN THIRTY (30) DAYS OLD. CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY FEES, IN THE EVENT SUIT IS NECESSARY TO COLLECT A FEE DUE. REFER TO SERVICE AGREEMENT
WE REPORT TO DUN & BRADSTREET CORPORATION.

Total	$6,461.76
Payments Applied	-$6,461.76
Balance Due	$0.00

VISA PayPal AMERICAN EXPRESS DISCOVER MasterCard

CLEAN MANAGEMENT
ENVIRONMENTAL GROUP, INC.

915 Industrial Rd. Walterboro, SC 29488
(843) 538-8131

INVOICE

DEAL #	DATE	INVOICE NO.
73101	8/1/2023	84325

RECEIVED
08/30/2023

BILL TO

EA ENGINEERING, SCIENCE, AND
TECHNOLOGY, INC., PBC
ATTN: ACCOUNTS PAYABLE
225 SCHILING CIRCLE, SUITE 400
HUNT VALLEY. MD 21031



P.O. NO	TERMS	DUE DATE	REP	SHIP DATE	MANIFEST #	LOCATION
25360	NET 30	8/31/2023	SDB			ABC ONE HOUR SUPERFUND

DESCRIPTION	QTY	RATE	AMOUNT
ROLLOFF RENTAL 6/1/23 - 6/30/23 - SOIL	30	16.66	499.80
RECYCLING CONCRETE WITH LINER DISPOSAL	1	750.00	750.00
ROLLOFF RENTAL 6/1/23 - 6/7/23 - CONCRETE	7	16.66	116.62
FREIGHT PER PULL CONCRETE	1	1,405.00	1,405.00
SPOT CONCRETE BOX 2	1	1,085.00	1,085.00
CONCRETE RENTAL BOX 2 6/9/23 - 6/28/23	20	16.66	333.20
NON-HAZARDOUS CONCRETE RECYCLING 2ND LOAD DISPOSAL	1	565.00	565.00
FREIGHT PER PULL CONCRETE	1	1,405.00	1,405.00
SOIL BOX 2	1	1,925.00	1,925.00
SOIL BOX RENTAL 6/28/23 - 6/30/23	3	16.66	49.98
ANY ADDITIONAL SURCHARGES WILL BE INVOICED SEPARATELY			0.00

AN INTEREST CHARGE OF 1 ½ PERCENT PER MONTH SHALL BE DUE ON ALL BILLS MORE THAN THIRTY (30) DAYS OLD. CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY FEES, IN THE EVENT SUIT IS NECESSARY TO COLLECT A FEE DUE. REFER TO SERVICE AGREEMENT.
WE REPORT TO DUN & BRADSTREET CORPORATION

Total	$8,134.60
Payments Applied	-$8,134.60
Balance Due	$0.00

VISA PayPal AMERICAN EXPRESS DISCOVER MasterCard

CLEAN MANAGEMENT
ENVIRONMENTAL GROUP, INC.

915 Industrial Rd. Walterboro, SC 29488
(843) 538-8131

INVOICE

DEAL #	DATE	INVOICE NO.
72124	8/1/2023	84324

PAID 08/30/2023

BILL TO

EA ENGINEERING, SCIENCE, AND
TECHNOLOGY, INC., PBC
ATTN: ACCOUNTS PAYABLE
225 SCHILING CIRCLE, SUITE 400
HUNT VALLEY, MD 21031

1992 2024
32 YEARS
OF EXCELLENCE

P.O. NO	TERMS	DUE DATE	REP	SHIP DATE	MANIFEST #	LOCATION
25360	NET 30	8/31/2023	SDB	5/11/2023		ABC ONE HOUR SUPERFUND

DESCRIPTION	QTY	RATE	AMOUNT
ROLLOFF DELIVERY SOIL SPOT 5/11/23	1	1,925.00	1,925.00
ROLLOFF RENTAL 5/11/23 - 5/31/23	21	16.66	349.86
ROLLOFF DELIVERY CONCRETE SPOT 5/12/23	1	1,085.00	1,085.00
ROLLOFF RENTAL 5/12/23 - 5/31/23	20	16.66	333.20
ANY ADDITIONAL SURCHARGES WILL BE INVOICED SEPARATELY			0.00

AN INTEREST CHARGE OF 1 ½ PERCENT PER MONTH SHALL BE DUE ON ALL BILLS MORE THAN THIRTY (30) DAYS OLD. CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY FEES, IN THE EVENT SUIT IS NECESSARY TO COLLECT A FEE DUE. REFER TO SERVICE AGREEMENT.
WE REPORT TO DUN & BRADSTREET CORPORATION

Total	$3,693.06
Payments Applied	-$3,693.06
Balance Due	$0.00

VISA PayPal AMERICAN EXPRESS DISCOVER MasterCard

CLEAN MANAGEMENT
ENVIRONMENTAL GROUP, INC.

915 Industrial Rd. Walterboro, SC 29488
(843) 538-8131

INVOICE

DEAL #	DATE	INVOICE NO.
75711	9/11/2023	84896

PAID 10/03/2023

BILL TO
EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC., PBC ATTN: ACCOUNTS PAYABLE 225 SCHILING CIRCLE, SUITE 400 HUNT VALLEY. MD 21031

1992 2024
32 YEARS
OF EXCELLENCE

P.O. NO.	TERMS	DUE DATE	REP	SHIP DATE	MANIFEST #	LOCATION
SPLIT FROM 72124	NET 30	10/11/2023	SDB			ABC ONE HOUR SUPERFUND

DESCRIPTION	QTY	RATE	AMOUNT
ROLL OFF RENTAL (AUG 1-31) 2ND BOX SOIL	31	16.66	516.46
ANY ADDITIONAL SURCHARGES WILL BE INVOICED SEPARATELY			0.00

AN INTEREST CHARGE OF 1 ½ PERCENT PER MONTH SHALL BE DUE ON ALL BILLS MORE THAN THIRTY (30) DAYS OLD. CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY FEES IN THE EVENT SUIT IS NECESSARY TO COLLECT A FEE DUE. REFER TO SERVICE AGREEMENT
WE REPORT TO DUN & BRADSTREET CORPORATION.

Total	$516.46
Payments Applied	-$516.46
Balance Due	$0.00

CLEAN MANAGEMENT
ENVIRONMENTAL GROUP, INC.

915 Industrial Rd. Walterboro, SC 29488
(843) 538-8131

INVOICE

DEAL #	DATE	INVOICE NO.
74863	10/6/2023	85344

PAID 03/19/2024

BILL TO

EA ENGINEERING, SCIENCE, AND
TECHNOLOGY, INC., PBC
ATTN: ACCOUNTS PAYABLE
225 SCHILING CIRCLE, SUITE 400
HUNT VALLEY, MD 21031

1992 2024
32 YEARS
OF EXCELLENCE

P.O. NO.	TERMS	DUE DATE	REP	SHIP DATE	MANIFEST #	LOCATION
25360	NET 30	11/5/2023	SDB	9/20/2023	107592	ABC ONE HOUR SUPERFUND

DESCRIPTION	QTY	RATE	AMOUNT
ROLL OFF RENTAL (SEPT 1ST - SEPT 21ST) - 2ND BOX SOIL	21	16.66	349.86
SOIL T&D	14.08	238.00	3,351.04
SPOT & SWAP	1	550.00	550.00
ANY ADDITIONAL SURCHARGES WILL BE INVOICED SEPARATELY			0.00

AN INTEREST CHARGE OF 1 ½ PERCENT PER MONTH SHALL BE DUE ON ALL BILLS MORE THAN THIRTY (30) DAYS OLD. CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY FEES, IN THE EVENT SUIT IS NECESSARY TO COLLECT A FEE DUE. REFER TO SERVICE AGREEMENT. WE REPORT TO DUN & BRADSTREET CORPORATION.

VISA PayPal AMERICAN EXPRESS DISCOVER MasterCard

Total	$4,250.90
Payments Applied	-$4,250.90
Balance Due	$0.00

CLEAN MANAGEMENT
ENVIRONMENTAL GROUP, INC.

915 Industrial Rd. Walterboro, SC 29488
(843) 538-8131

INVOICE

DEAL #	DATE	INVOICE NO.
76504	1/24/2024	87042

PAID
02/20/2024

BILL TO

EA ENGINEERING, SCIENCE, AND
TECHNOLOGY, INC., PBC
ATTN: ACCOUNTS PAYABLE
225 SCHILING CIRCLE, SUITE 400
HUNT VALLEY, MD 21031

1992 2024
32 YEARS
OF EXCELLENCE

P.O. NO.	TERMS	DUE DATE	REP	SHIP DATE	MANIFEST #	LOCATION
25360	NET 30	2/23/2024	SDB	10/10/2023	107593	ABC ONE HOUR SUPERFUND

DESCRIPTION	QTY	RATE	AMOUNT
ROLLOFF RENTAL (MONTHLY RENTAL) 2ND BOX SOIL	31	16.66	516.46
SOIL T & D (10/10/23)	12.55	238.00	2,986.90
ROLLOFF SWAP/SPOT (10/10/23)	1	550.00	550.00
RENTAL (OCT 10TH - OCT 24TH)	15	16.66	249.90
DROPPING ANOTHER BOX 3RD (10/24/23)	1	1,925.00	1,925.00
RENTAL 3RD BOX (10/24/23 - 10/31/23)	8	16.66	133.28
ANY ADDITIONAL SURCHARGES WILL BE INVOICED SEPARATELY			0.00

AN INTEREST CHARGE OF 1 ½ PERCENT PER MONTH SHALL BE DUE ON ALL BILLS MORE THAN THIRTY (30) DAYS OLD. CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY FEES, IN THE EVENT SUIT IS NECESSARY TO COLLECT A FEE DUE. REFER TO SERVICE AGREEMENT. WE REPORT TO DUN & BRADSTREET CORPORATION

Total	$6,361.54
Payments Applied	-$6,361.54
Balance Due	$0.00

CLEAN MANAGEMENT
ENVIRONMENTAL GROUP, INC.

915 Industrial Rd. Walterboro, SC 29488
(843) 538-8131

INVOICE

DEAL #	DATE	INVOICE NO.
76967	1/26/2024	87053

PAID 02/29/2024

BILL TO
EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC., PBC ATTN: ACCOUNTS PAYABLE 225 SCHILING CIRCLE, SUITE 400 HUNT VALLEY. MD 21031

1992 2024
32 YEARS
OF EXCELLENCE

P.O. NO	TERMS	DUE DATE	REP	SHIP DATE	MANIFEST #	LOCATION
25360	NET 30	2/25/2024	SDB	11/17/2023	SEE BELOW	ABC ONE HOUR SUPERFUND

DESCRIPTION	QTY	RATE	AMOUNT
MANIFEST 107597. 107596 & 107594			
RENTAL (NOV 1ST - NOV 7TH)	7	16.66	116.62
SOIL T&D	14.68	238.00	3,493.84
11/1/23 SOIL T&D MINIMUM APPLIES	10	238.00	2,380.00
11/1/23 FREIGHT SOIL T&D	10.32	238.00	2,456.16
ANY ADDITIONAL SURCHARGES WILL BE INVOICED SEPARATELY			0.00

AN INTEREST CHARGE OF 1 ½ PERCENT PER MONTH SHALL BE DUE ON ALL BILLS MORE THAN THIRTY (30) DAYS OLD. CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY FEES, IN THE EVENT SUIT IS NECESSARY TO COLLECT A FEE DUE. REFER TO SERVICE AGREEMENT. WE REPORT TO DUN & BRADSTREET CORPORATION.

VISA PayPal AMERICAN EXPRESS DISCOVER MasterCard

Total	$8,446.62
Payments Applied	-$8,446.62
Balance Due	$0.00

CLEAN MANAGEMENT
ENVIRONMENTAL GROUP, INC.
915 Industrial Rd. Walterboro, SC 29488
(843) 538-8131

INVOICE

DEAL #	DATE	INVOICE NO.
78978	2/8/2024	87237

PAID 02/05/2024

BILL TO

EA ENGINEERING, SCIENCE, AND
TECHNOLOGY, INC., PBC
ATTN: ACCOUNTS PAYABLE
225 SCHILING CIRCLE, SUITE 400
HUNT VALLEY. MD 21031

1992 2024
32 YEARS
OF EXCELLENCE

P.O. NO	TERMS	DUE DATE	REP	SHIP DATE	MANIFEST #	LOCATION
	NET 30	3/9/2024	SDB	1/5/2024	SEE ATTACH..	ABC ONE HOUR SUPERFUND

DESCRIPTION	QTY	RATE	AMOUNT
NON-HAZARDOUS IDW WATER	5,382	0.875	4,709.25
ANY ADDITIONAL SURCHARGES WILL BE INVOICED SEPARATELY			0.00

AN INTEREST CHARGE OF 1 ½ PERCENT PER MONTH SHALL BE DUE ON ALL BILLS MORE THAN THIRTY (30) DAYS OLD. CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY FEES, IN THE EVENT SUIT IS NECESSARY TO COLLECT A FEE DUE. REFER TO SERVICE AGREEMENT. WE REPORT TO DUN & BRADSTREET CORPORATION

Total	$4,709.25
Payments Applied	-$4,709.25
Balance Due	$0.00

VISA PayPal AMERICAN EXPRESS DISCOVER MasterCard

CLEAN MANAGEMENT
ENVIRONMENTAL GROUP, INC.
915 Industrial Rd. Walterboro, SC 29488
(843) 538-8131

INVOICE

DEAL #	DATE	INVOICE NO.
7800	8/9/2024	90401

PAID 07/22/2024

BILL TO

EA ENGINEERING, SCIENCE, AND
TECHNOLOGY, INC., PBC
ATTN: ACCOUNTS PAYABLE
225 SCHILING CIRCLE, SUITE 400
HUNT VALLEY. MD 21031

1992 2024
32 YEARS
OF EXCELLENCE

P.O. NO.	TERMS	DUE DATE	REP	SHIP DATE	MANIFEST #	LOCATION
25360	NET 30	9/8/2024	SDB			ABC ONE HOUR SUPERFUND

DESCRIPTION	QTY	RATE	AMOUNT
ROLLOFF RENTAL #1 (7/1/24-7/31/24)	31	17.00	527.00
ROLLOFF RENTAL #2 (7/1/24-7/31/24)	31	17.00	527.00
ROLLOFF RENTAL #3 (7/1/24-7/31/24)	31	17.00	527.00
ROLLOFF #4 (SPOTTED 7/1/24) SPOT FEE	1	1,085.00	1,085.00
ROLLOFF RENTAL #4 (7/1/24-7/31/24)	31	17.00	527.00
ROLLOFF #5 (SPOTTED 7/2/24) SPOT FEE	1	1,085.00	1,085.00
ROLLOFF RENTAL #5 (7/2/24-7/31/24)	30	17.00	510.00
ROLLOFF #6 (SPOTTED 7/10/24) SPOT FEE	1	1,085.00	1,085.00
ROLLOFF RENTAL #6 (7/10/24-7/31/24)	22	17.00	374.00
ANY ADDITIONAL SURCHARGES WILL BE INVOICED SEPARATELY			0.00

AN INTEREST CHARGE OF 1 ½ PERCENT PER MONTH SHALL BE DUE ON ALL BILLS MORE THAN THIRTY (30) DAYS OLD. CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY FEES, IN THE EVENT SUIT IS NECESSARY TO COLLECT A FEE DUE. REFER TO SERVICE AGREEMENT
WE REPORT TO DUN & BRADSTREET CORPORATION

Total	$6,247.00
Payments Applied	-$6,247.00
Balance Due	$0.00

CLEAN MANAGEMENT
ENVIRONMENTAL GROUP, INC.

915 Industrial Rd. Walterboro, SC 29488
(843) 538-8131

INVOICE

DEAL #	DATE	INVOICE NO
85810	8/30/2024	90835

BILL TO

EA ENGINEERING, SCIENCE, AND
TECHNOLOGY, INC., PBC
ATTN: ACCOUNTS PAYABLE
225 SCHILING CIRCLE, SUITE 400
HUNT VALLEY. MD 21031

1992 2024
32 YEARS
OF EXCELLENCE

P.O. NO	TERMS	DUE DATE	REP	SHIP DATE	MANIFEST #	LOCATION
25360	NET 30	9/29/2024	SDB	8/30/2024		ABC ONE HOUR SUPERFUND

DESCRIPTION	QTY	RATE	AMOUNT
SPOT ROLLOFF #1- C&D	1	1,085.00	1,085.00
ROLLOFF RENTAL #1 (6/21/2024-06/30/2024)	10	17.00	170.00
SPOT ROLLOFF #2- C&D	1	1,085.00	1,085.00
ROLLOFF RENTAL #2 (6/21/2024-6/30/2024)	10	17.00	170.00
SPOT ROLLOFF #3- CONCRETE FOR RECYCLING	1	1,085.00	1,085.00
ROLLOFF RENTAL #3 (6/28/2024-6/30/2024)	3	17.00	51.00
ANY ADDITIONAL SURCHARGES WILL BE INVOICED SEPARATELY			0.00

AN INTEREST CHARGE OF 1 ½ PERCENT PER MONTH SHALL BE DUE ON ALL BILLS MORE THAN THIRTY (30) DAYS OLD. CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY FEES, IN THE EVENT SUIT IS NECESSARY TO COLLECT A FEE DUE. REFER TO SERVICE AGREEMENT
WE REPORT TO DUN & BRADSTREET CORPORATION

VISA PayPal AMERICAN EXPRESS DISCOVER MasterCard

Total	$3,646.00
Payments Applied	$0.00
Balance Due	$3.646.00

CLEAN MANAGEMENT
ENVIRONMENTAL GROUP, INC.

915 Industrial Rd. Walterboro, SC 29488
(843) 538-8131

INVOICE

DEAL #	DATE	INVOICE NO.
#86978	9/12/2024	91057

BILL TO

EA ENGINEERING, SCIENCE, AND
TECHNOLOGY, INC., PBC
ATTN: ACCOUNTS PAYABLE
225 SCHILING CIRCLE, SUITE 400
HUNT VALLEY, MD 21031

1992 2024
32 YEARS
OF EXCELLENCE

P.O. NO	TERMS	DUE DATE	REP	SHIP DATE	MANIFEST #	LOCATION
25360	NET 30	10/12/2024	SDB	8/5/2024		ABC ONE HOUR SUPERFUND

DESCRIPTION	QTY	RATE	AMOUNT
ROLLOFF #1 - C&D (SPOTTED 06/21/2024) DISPOSAL	5	69.00	345.00
ROLLOFF RENTAL #1 (08/01/2024 - 08/05/2024)	5	17.00	85.00
ROLLOFF #1 TRANSPORTATION TO SAMPSON COUNTY	1	1,685.00	1,685.00
ROLLOFF #2 - C&D (SPOTTED 06/21/2024) DISPOSAL	9.34	69.00	644.46
ROLLOFF RENTAL #2 (08/01/2024 - 08/05/2024)	5	17.00	85.00
ROLLOFF #2 TRANSPORTATION TO SAMPSON COUNTY	1	1,685.00	1,685.00
ROLLOFF #3 - C&D (SPOTTED 06/28/2024) DISPOSAL	5	69.00	345.00
ROLLOFF RENTAL #3 (08/01/2024 - 08/05/2024	5	17.00	85.00

AN INTEREST CHARGE OF 1 ½ PERCENT PER MONTH SHALL BE DUE ON ALL BILLS MORE THAN THIRTY (30) DAYS OLD. CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY FEES, IN THE EVENT SUIT IS NECESSARY TO COLLECT A FEE DUE REFER TO SERVICE AGREEMENT.
WE REPORT TO DUN & BRADSTREET CORPORATION

Total	
Payments Applied	
Balance Due	

VISA PayPal AMERICAN EXPRESS DISCOVER MasterCard

CLEAN MANAGEMENT
ENVIRONMENTAL GROUP, INC.
915 Industrial Rd. Walterboro, SC 29488
(843) 538-8131

INVOICE

DEAL #	DATE	INVOICE NO.
[illegible]6978	9/12/2024	91057

BILL TO

EA ENGINEERING, SCIENCE, AND
TECHNOLOGY, INC., PBC
ATTN: ACCOUNTS PAYABLE
225 SCHILING CIRCLE, SUITE 400
HUNT VALLEY. MD 21031

1992 2024
32 YEARS
OF EXCELLENCE

P.O. NO.	TERMS	DUE DATE	REP	SHIP DATE	MANIFEST #	LOCATION
25360	NET 30	10/12/2024	SDB	8/5/2024		ABC ONE HOUR SUPERFUND

DESCRIPTION	QTY	RATE	AMOUNT
ROLLOFF #3 TRANSPORTATION TO SAMPSON COUNTY	1	1,685.00	1,685.00
ROLLOFF #4 (SPOTTED 07/01/2024) SPOT FEE	1	1,085.00	1,085.00
ROLLOFF #4 - C&D DISPOSAL	5.74	69.00	396.06
ROLLOFF RENTAL #4 (08/01/2024 - 08/06/2024)	6	17.00	102.00
ROLLOFF #4 TRANSPORTATION TO SAMPSON COUNTY	1	1,685.00	1,685.00
ROLLOFF #5 (SPOTTED 07/02/2024) SPOT FEE	1	1,085.00	1,085.00
ROLLOFF #5 - C&D DISPOSAL	5	69.00	345.00
ROLLOFF RENTAL #5 (08/01/2024 - 08/06/2024)	6	17.00	102.00
ROLLOFF #5 TRANSPORTATION TO SAMPSON COUNTY	1	1,685.00	1,685.00

AN OVERDUE CHARGE OF 1 ½ PERCENT PER MONTH SHALL BE DUE ON ALL BILLS MORE THAN THIRTY (30) DAYS.
OLD CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY FEES, IN THE EVENT SUIT IS NECESSARY TO COLLECT A FEE DUE. REFER TO SERVICE AGREEMENT
WE REPORT TO DUN & BRADSTREET CORPORATION.

Total	
Payments Applied	
Balance Due	

VISA PayPal AMERICAN EXPRESS DISCOVER MasterCard

CLEAN MANAGEMENT
ENVIRONMENTAL GROUP, INC.

915 Industrial Rd. Walterboro, SC 29488
(843) 538-8131

INVOICE

DEAL #	DATE	INVOICE NO.
#86978	9/12/2024	91057

BILL TO

EA ENGINEERING, SCIENCE, AND
TECHNOLOGY, INC., PBC
ATTN: ACCOUNTS PAYABLE
225 SCHILING CIRCLE, SUITE 400
HUNT VALLEY, MD 21031

1992 2024
32 YEARS
OF EXCELLENCE

P.O. NO	TERMS	DUE DATE	REP	SHIP DATE	MANIFEST #	LOCATION
25360	NET 30	10/12/2024	SDB	8/5/2024		ABC ONE HOUR SUPERFUND

DESCRIPTION	QTY	RATE	AMOUNT
ROLLOFF #6 (SPOTTED 07/10/2024) SPOT FEE	1	1,085.00	1,085.00
ROLLOFF #6 - C&D DISPOSAL	6.48	69.00	447.12
ROLLOFF RENTAL #6 (08/01/2024 - 08/06/2024)	6	17.00	102.00
ROLLOFF #6 TRANSPORTATION TO SAMPSON COUNTY	1	1,685.00	1,685.00

AN INTEREST CHARGE OF 1 ½ PERCENT PER MONTH SHALL BE DUE ON ALL BILLS MORE THAN THIRTY (30) DAYS OLD. CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY FEES, IN THE EVENT SUIT IS NECESSARY TO COLLECT A FEE DUE REFER TO SERVICE AGREEMENT
WE REPORT TO DUN & BRADSTREET CORPORATION

Total	$16,448.64
Payments Applied	$0.00
Balance Due	$16,448.64

CLEAN MANAGEMENT
ENVIRONMENTAL GROUP, INC.

915 Industrial Rd. Walterboro, SC 29488
(843) 538-8131

INVOICE

DEAL #	DATE	INVOICE NO.
#79300	9/12/2024	91056

BILL TO

EA ENGINEERING, SCIENCE, AND
TECHNOLOGY, INC., PBC
ATTN: ACCOUNTS PAYABLE
225 SCHILING CIRCLE, SUITE 400
HUNT VALLEY, MD 21031

1992 2024
32 YEARS
OF EXCELLENCE

P.O. NO.	TERMS	DUE DATE	REP	SHIP DATE	MANIFEST #	LOCATION
25360	NET 30	10/12/2024	SDB	7/8/2024	24005	ABC ONE HOUR SUPERFUND

DESCRIPTION	QTY	RATE	AMOUNT
Labor & Equipment To Clean & Remove Non Hazardous Waste From Frac Tank Estimated 4 Hours Onsite Portal To Portal	1	2,610.00	2,610.00
Disposal Non Hazardous Waste (1000 Gallon Minimum)	1,000	0.35	350.00
ANY ADDITIONAL SURCHARGES WILL BE INVOICED SEPARATELY			0.00

AN INTEREST CHARGE OF 1 ½ PERCENT PER MONTH SHALL BE DUE ON ALL BILLS MORE THAN THIRTY (30) DAYS OLD. CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY FEES, IN THE EVENT SUIT IS NECESSARY TO COLLECT A FEE DUE REFER TO SERVICE AGREEMENT.
WE REPORT TO DUN & BRADSTREET CORPORATION

VISA PayPal AMERICAN EXPRESS DISCOVER MasterCard

Total	$2,960.00
Payments Applied	$0.00
Balance Due	$2,960.00

CLEAN MANAGEMENT
ENVIRONMENTAL GROUP, INC.

915 Industrial Rd. Walterboro, SC 29488
(843) 538-8131

INVOICE

DEAL #	DATE	INVOICE NO.
#84427	9/16/2024	91101

BILL TO

EA ENGINEERING, SCIENCE, AND
TECHNOLOGY, INC., PBC
ATTN: ACCOUNTS PAYABLE
225 SCHILING CIRCLE, SUITE 400
HUNT VALLEY. MD 21031

1992 2024
32 YEARS
OF EXCELLENCE

P.O. NO	TERMS	DUE DATE	REP	SHIP DATE	MANIFEST #	LOCATION
25360	NET 30	10/16/2024	SDB	7/9/2024		ABC ONE HOUR SUPERFUND

DESCRIPTION	QTY	RATE	AMOUNT
Concrete For Recycling - 3 Turns Per Truck - 20 Tons Per Truck (8 Hour Day x 2 Trucks x 2 Days)	46.5	225.00	10,462.50
ANY ADDITIONAL SURCHARGES WILL BE INVOICED SEPARATELY			0.00

AN INTEREST CHARGE OF 1 ½ PERCENT PER MONTH SHALL BE DUE ON ALL BILLS MORE THAN THIRTY (30) DAYS OLD CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY FEES, IN THE EVENT SUIT IS NECESSARY TO COLLECT A FEE DUE. REFER TO SERVICE AGREEMENT.
WE REPORT TO DUN & BRADSTREET CORPORATION.

VISA PayPal AMERICAN EXPRESS DISCOVER MasterCard

Total	$10,462.50
Payments Applied	$0.00
Balance Due	$10,462.50

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Appendix D

Project Schedule

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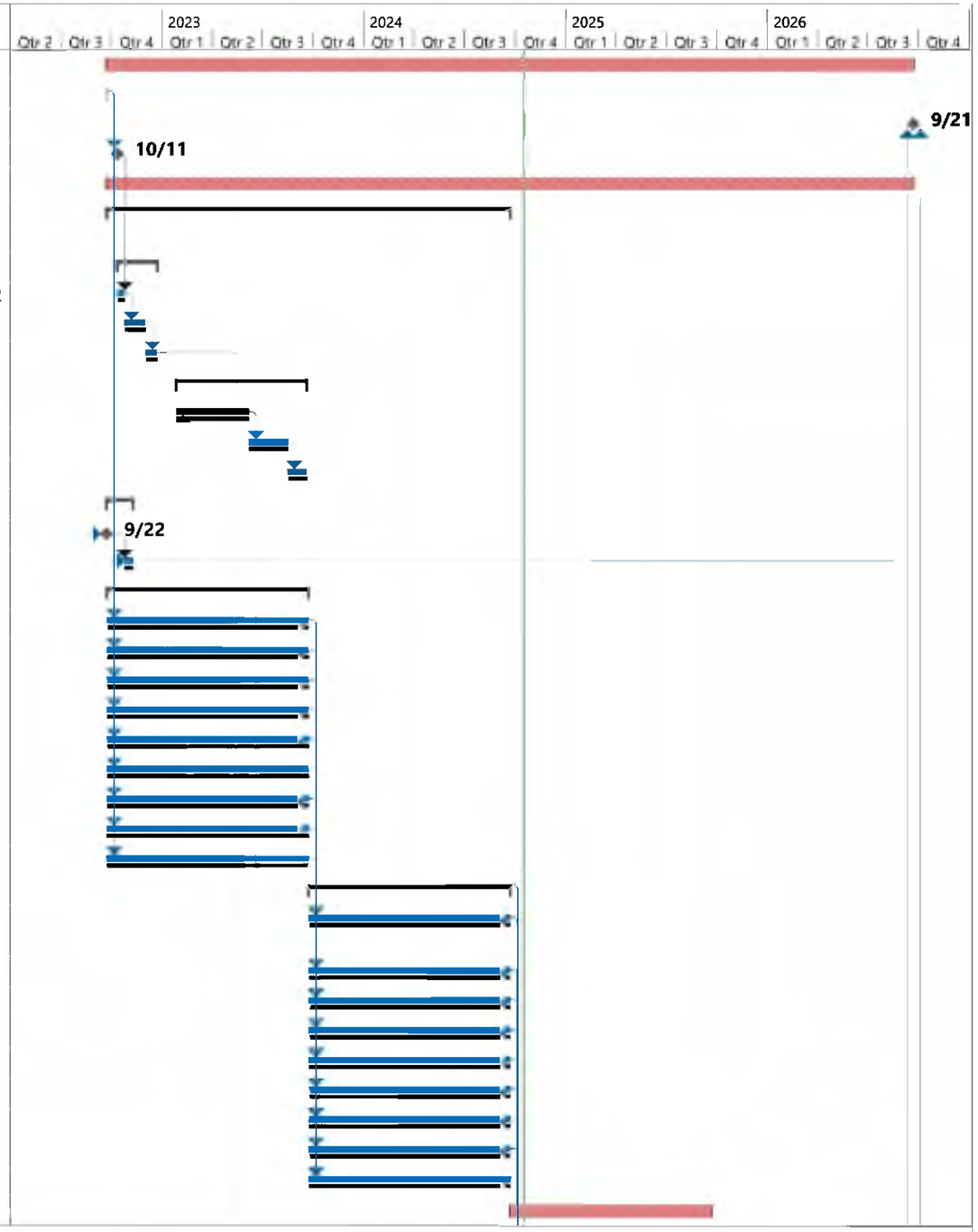
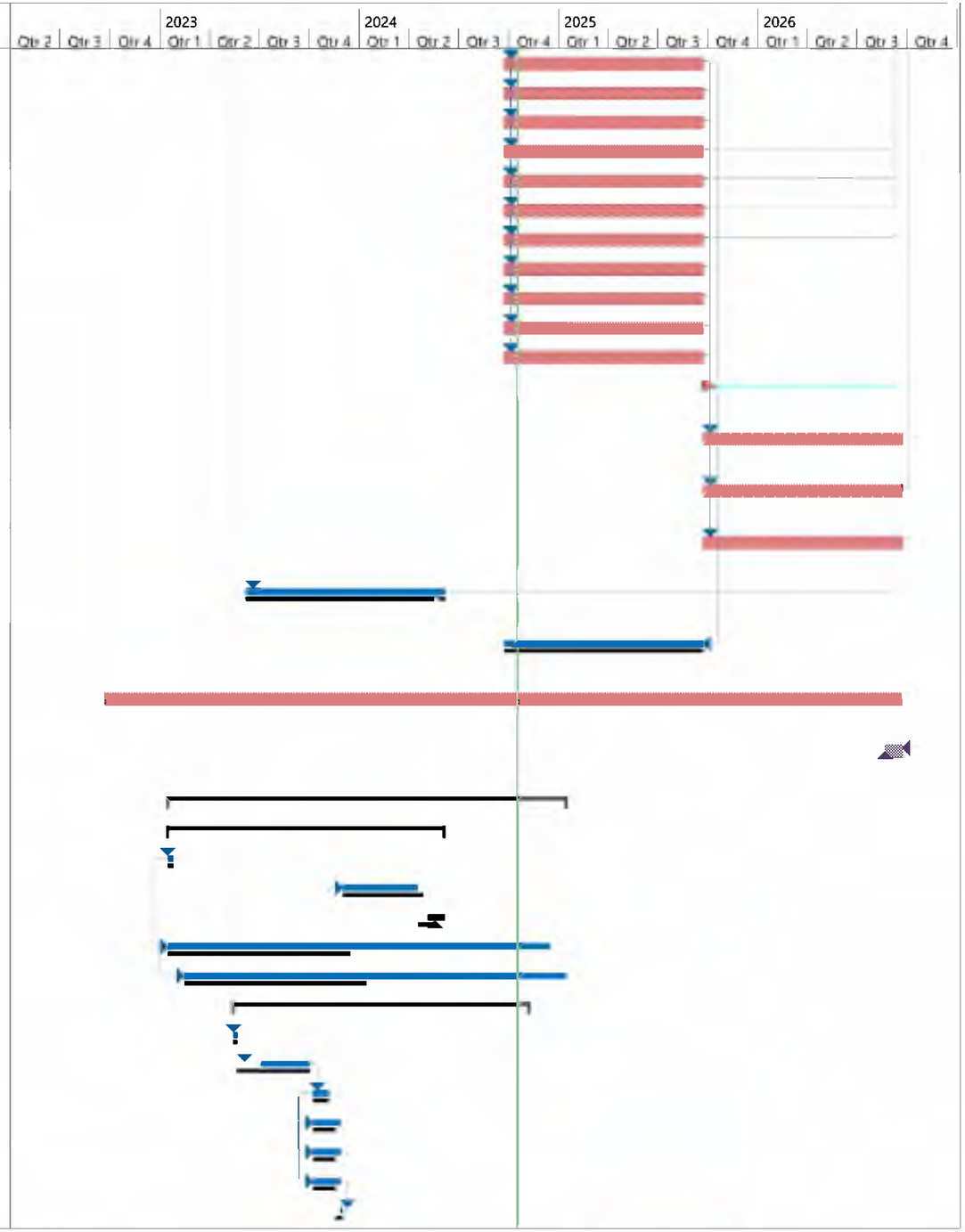
ID	Text1	Text2	Text3	Task Name	Duration	Start	Finish
1	**CLIN**	**Task**	**Sub-Task**	**ABC On- Hour Cleaners Superfund Site OU3**	**1461 days**	**Thu 9/22/22**	**Mon 9/21/26**
2				Task Order Award	1 day	Thu 9/22/22	Thu 9/22/22
3				Project Complete	0 days	Mon 9/21/26	Mon 9/21/26
4	0001	1		Kick Off Meeting	0 days	Tue 10/11/22	Tue 10/11/22
5	**0001**	**1**	**1.2**	**Project Management and Reporting**	**1461 days**	**Thu 9/22/22**	**Mon 9/21/26**
6	**0001**	**1**	**1.2**	**Project Management and Reporting - Base Period 1 (2 Years)**	**731 days**	**Thu 9/22/22**	**Sat 9/21/24**
7	**0001**	**1**	**1.1**	**Site-Specific Plans**	**72 days**	**Wed 10/12/22**	**Thu 12/22/22**
8	0001	1	1.1	Draft Site-Specific Plans	13 days	Wed 10/12/22	Mon 10/24/22
9	0001	1	1.1	EPA Review	38 days	Tue 10/25/22	Thu 12/1/22
10	0001	1	1.1	Final Site-Specific Plans	21 days	Fri 12/2/22	Thu 12/22/22
11	**0001**	**1**	**1.2**	**Remedial Action (RA) Work Plan**	**237 days**	**Wed 1/25/23**	**Mon 9/18/23**
12	0001	1	1.2	Draft RA Work Plan	133 days	Wed 1/25/23	Tue 6/6/23
13	0001	1	1.2	EPA review	70 days	Wed 6/7/23	Tue 8/15/23
14	0001	1	1.2	Final RA Work Plan	34 days	Wed 8/16/23	Mon 9/18/23
15	**0001**	**1**	**1.2**	**Technical Management Plan (TMP)**	**48 days**	**Thu 9/22/22**	**Tue 11/8/22**
16	0001	1	1.2	Draft TMP	0 days	Thu 9/22/22	Thu 9/22/22
17	0001	1	1.2	Final TMP	15 days	Tue 10/25/22	Tue 11/8/22
18				**Year 1**	**365 days**	**Fri 9/23/22**	**Fri 9/22/23**
19	0001	1	1.2	Monthly Project Management Meetings - Year 1	365 days	Fri 9/23/22	Fri 9/22/23
20	0001	1	1.2	Monthly Financial Reports - Year 1	365 days	Fri 9/23/22	Fri 9/22/23
21	0001	1	1.2	Monthly Progress Reports - Year 1	365 days	Fri 9/23/22	Fri 9/22/23
22	0001	1	1.2	Permits & Negotiations - Year 1	365 days	Fri 9/23/22	Fri 9/22/23
23	0001	1	1.2	Optimization Considerations - Year 1	365 days	Fri 9/23/22	Fri 9/22/23
24	0001	1	1.2	CI Fact Sheets - Year 1	365 days	Fri 9/23/22	Fri 9/22/23
25	0001	1	1.2	CI Publication - Year 1	365 days	Fri 9/23/22	Fri 9/22/23
26	0001	1	1.2	CI Public Meetings - Year 1	365 days	Fri 9/23/22	Fri 9/22/23
27	0001	1	1.2	Task Order Closeout - Year 1	365 days	Fri 9/23/22	Fri 9/22/23
28				**Year 2 - Base Period 2**	**365 days**	**Sat 9/23/23**	**Sat 9/21/24**
29	0001	1	1.2	Monthly Project Management Meetings - Base Period 2	365 days	Sat 9/23/23	Sat 9/21/24
30	0001	1	1.2	Monthly Financial Reports - Base Period 2	365 days	Sat 9/23/23	Sat 9/21/24
31	0001	1	1.2	Monthly Progress Reports - Base Period 2	365 days	Sat 9/23/23	Sat 9/21/24
32	0001	1	1.2	Permits & Negotiations - Base Period 2	365 days	Sat 9/23/23	Sat 9/21/24
33	0001	1	1.2	Optimization Considerations - Base Period 2	365 days	Sat 9/23/23	Sat 9/21/24
34	0001	1	1.2	CI Fact Sheets - Base Period 2	365 days	Sat 9/23/23	Sat 9/21/24
35	0001	1	1.2	CI Publication - Base Period 2	365 days	Sat 9/23/23	Sat 9/21/24
36	0001	1	1.2	CI Public Meetings - Base Period 2	365 days	Sat 9/23/23	Sat 9/21/24
37	0001	1	1.2	Task Order Closeout - Base Period 2	365 days	Sat 9/23/23	Sat 9/21/24
38	**0001**	**1**	**1.2**	**Project Management and Reporting - Option Year 1**	**365 days**	**Sun 9/22/24**	**Sun 9/21/25**



Project: ABC Cleaners Updated
Date: Thu 10/17/24

Task | Milestone | Summary | Project Summary | Baseline | Critical

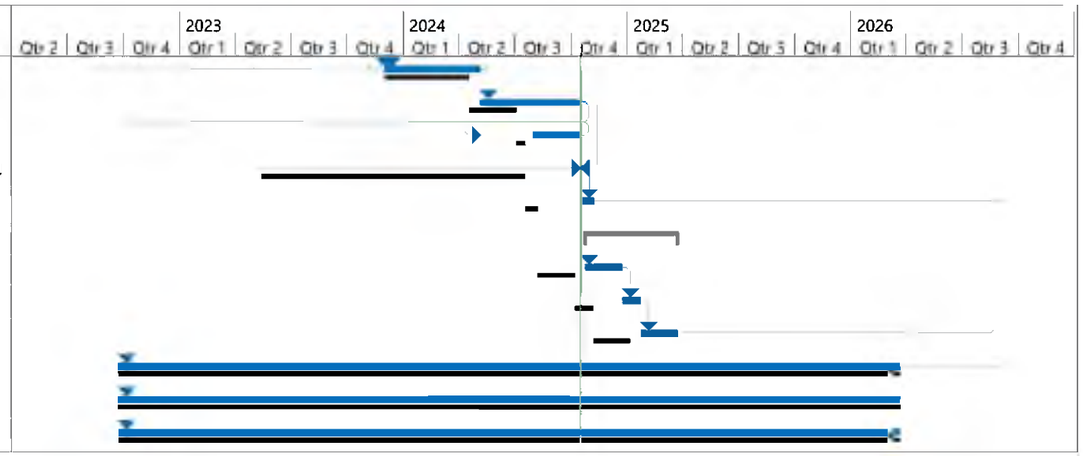
ID	Text1	Text2	Text3	Task Name	Duration	Start	Finish
39	0001	1	1.2	Monthly Project Management Meetings - Option Ye	365 days	Sun 9/22/24	Sun 9/21/25
40	0001	1	1.2	Monthly Financial Reports - Option Year 1	365 days	Sun 9/22/24	Sun 9/21/25
41	0001	1	1.2	Monthly Progress Reports - Option Year 1	365 days	Sun 9/22/24	Sun 9/21/25
42	0001	1	1.2	Audit Support - Option Year 1	365 days	Sun 9/22/24	Sun 9/21/25
43	0001	1	1.2	Ad-Hoc Management Meetings - Option Year 1	365 days	Sun 9/22/24	Sun 9/21/25
44	0001	1	1.2	Ad-Hoc Financial Reports - Option Year 1	365 days	Sun 9/22/24	Sun 9/21/25
45	0001	1	1.2	Ad-Hoc Progress Reports - Option Year 1	365 days	Sun 9/22/24	Sun 9/21/25
46	0001	1	1.2	Optimization Considerations - Option Year 1	365 days	Sun 9/22/24	Sun 9/21/25
47	0001	1	1.2	CI Fact Sheets - Option Year 1	365 days	Sun 9/22/24	Sun 9/21/25
48	0001	1	1.2	CI Publication - Option Year 1	365 days	Sun 9/22/24	Sun 9/21/25
49	0001	1	1.2	CI Public Meetings - Option Year 1	365 days	Sun 9/22/24	Sun 9/21/25
50	**1001**	**1**	**1.2**	**General Requirements - 6 Month Option Period (Ends on 6-21-26)**	**365 days**	**Mon 9/22/25**	**Mon 9/21/26**
51	1001	1	1.2	Monthly Project Management Meetings - 6 Month Option Period (Ends on 6-21-26)	365 days	Mon 9/22/25	Mon 9/21/26
52	1001	1	1.2	Monthly Financial Reports - 6 Month Option Period (Ends on 6-21-26)	365 days	Mon 9/22/25	Mon 9/21/26
53	1001	1	1.2	Monthly Progress Reports - 6 Month Option Period (Ends on 6-21-26)	365 days	Mon 9/22/25	Mon 9/21/26
54	0001	1	1.3	Permitting and/or Notifications - 6 Month Option Period (Ends on 6-21-26)	365 days	Wed 6/7/23	Wed 6/5/24
55	0001	1	1.7	Optimization Considerations - 6 Month Option Period (Ends on 6-21-26)	365 days	Sun 9/22/24	Sun 9/21/25
56	0001	1	1.8	Community Involvement - 6 Month Option Period (Ends on 6-21-26)	1461 days	Thu 9/22/22	Mon 9/21/26
57	0001	1	1.9	Task Order Closeout - 6 Month Option Period (Ends on 6-21-26)	30 days	Sun 8/23/26	Mon 9/21/26
58	**0002**	**2**		**Field Work and Analytical Support**	**730 days**	**Sun 1/15/23**	**Mon 1/13/25**
59	**0002**	**2**	**2.1**	**Field Investigations**	**507 days**	**Sun 1/15/23**	**Tue 6/4/24**
60	0002	2	2.1	Pre-Remedial Field Investigation	10 days	Sun 1/15/23	Tue 1/24/23
61	0002	2	2.1	Remedial Field Investigation	138 days	Fri 12/1/23	Tue 4/16/24
62	0002	2	2.1	Post Remedial Investigation	30 days	Mon 5/6/24	Tue 6/4/24
63	0002		2.2	Analytical Support and Data Validation	700 days	Sun 1/15/23	Sat 12/14/24
64	0002		2.3	Data Management and Evaluation	700 days	Tue 2/14/23	Mon 1/13/25
65	**0003**	**3**		**Remedial Action Implementation**	**542 days**	**Mon 5/15/23**	**Wed 11/6/24**
66	0003	3		Mobilization	7 days	Mon 5/15/23	Sun 5/21/23
67	0003	3		Drilling	90 days	Sun 5/21/23	Mon 10/2/23
68	0003	3		Surface Cover Installation	29 days	Sun 10/8/23	Sun 11/5/23
69	0003	3		Wellfield Piping	50 days	Sun 10/8/23	Sun 11/26/23
70	0003	3		Wellfield Wiring	50 days	Sun 10/8/23	Sun 11/26/23
71	0003	3		Process Equipment and Piping	50 days	Sun 10/8/23	Sun 11/26/23
72	0003	3		Commissioning	4 days	Mon 11/27/23	Thu 11/30/23



Project: ABC Cleaners Updated
Date: Thu 10/17/24

Task | Milestone | Summary | Project Summary | Baseline | Critical

ID	Text1	Text2	Text3	Task Name	Duration	Start	Finish
73	0003	3		System Operation	157 days	Fri 12/1/23	Sun 5/5/24
74	0003	3		Equipment Demobilization	163 days	Mon 5/6/24	Tue 10/15/24
75	0003	3		Site Restoration	77 days	Mon 5/6/24	Tue 10/15/24
76	0003	3		Survey	1 day	Wed 10/16/24	Wed 10/16/24
77	0003	3		As-Builts	21 days	Thu 10/17/24	Wed 11/6/24
78	**0003**	**3**		**Remedial Action Report**	**150 days**	**Thu 10/24/24**	**Sat 3/22/25**
79	0003	3	3.8	Draft RAR	60 days	Thu 10/24/24	Sun 12/22/24
80	0003	3	3.8	EPA review	30 days	Mon 12/23/24	Tue 1/21/25
81	0003	3	3.8	Final RAR	60 days	Wed 1/22/25	Sat 3/22/25
82	0004	5		Engineering Support	1276 days	Fri 9/23/22	Sat 3/21/26
83				Travel	1276 days	Fri 9/23/22	Sat 3/21/26
84				Fee	1276 days	Fri 9/23/22	Sat 3/21/26



Project: ABC Cleaners Updated
Date: Thu 10/17/24

Task — Milestone — Summary — Project Summary — Baseline — Critical

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Appendix E

Laboratory Analytical Reports

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eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Sanita Corum
EA Engineering, Science, and Technology
225 Schilling Circle
Suite 400
Hunt Valley, Maryland 21031
Generated 4/18/2024 3:36:11 PM

JOB DESCRIPTION

ABC Cleaners, NC

JOB NUMBER

280-189645-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

myEOL

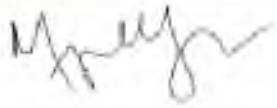
Eurofins Denver

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 TestAmerica Project Manager.

Authorization



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4/18/2024 3:36:11 PM

Authorized for release by
Megan McElheny, Project Manager I
Megan.Mcelheny@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189645-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-189645-1 — Eurofins Denver

Job Narrative
280-189645-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/4/2024 9:20 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 0.6°C.

Receipt Exceptions
The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: POST-SO-SB6-05-04022024 (280-189645-1), POST-SO-SB6-10-04022024 (280-189645-2), POST-SO-SB6-15-04022024 (280-189645-3) and POST-SO-SB6-20-04022024 (280-189645-4).

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). Sample was logged for method 8260D.

GC/MS VOA
Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 280-648518.

Method 8260D: The following samples were received outside of the 48 hour holding time for preservation: POST-SO-SB6-05-04022024 (280-189645-1), POST-SO-SB6-10-04022024 (280-189645-2), POST-SO-SB6-15-04022024 (280-189645-3) and POST-SO-SB6-20-04022024 (280-189645-4). Preparation batch 280-648441

Method 8260D: The matrix spike (MS) recoveries for preparation batch 280-648441 and analytical batch 280-649463 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample non-homogeneity is suspected because the associated MSD and laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 280-648441 and analytical batch 280-649463 was outside control limits for Bromomethane, Dichloro-difluoromethane and trichlorofluoromethane. Sample non-homogeneity is suspected. The LCS/LCSD precision was within control limits.

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

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

Client Sample ID: POST-SO-SB6-05-04022024 — Lab Sample ID: 280-189645-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	33	H	4.8		ug/Kg	1	☼	8260D	Total/NA
cis-1,2-Dichloroethene	7.8	H	2.4		ug/Kg	1	☼	8260D	Total/NA
Acetone	730	H	76		ug/Kg	1	☼	8260D	Total/NA
2-Butanone (MEK)	93	H	19		ug/Kg	1	☼	8260D	Total/NA
Trichloroethene	15	H	4.8		ug/Kg	1	☼	8260D	Total/NA
1,2-Dichloroethene, Total	7.8	H	4.8		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: POST-SO-SB6-10-04022024 — Lab Sample ID: 280-189645-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	120	H	87		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: POST-SO-SB6-15-04022024 — Lab Sample ID: 280-189645-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	83	H	78		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: POST-SO-SB6-20-04022024 — Lab Sample ID: 280-189645-4

No Detections.

Client Sample ID: POST-SO-SB4-05-04032024 — Lab Sample ID: 280-189645-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	280		7.4		ug/Kg	1	☼	8260D	Total/NA
Acetone	480		120		ug/Kg	1	☼	8260D	Total/NA
2-Butanone (MEK)	57		30		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: POST-SO-SB4-10-04032024 — Lab Sample ID: 280-189645-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	180		93		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: POST-SO-SB4-15-04032024 — Lab Sample ID: 280-189645-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110		83		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: POST-SO-SB4-20-04032024 — Lab Sample ID: 280-189645-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	160		84		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: POST-SO-SB4-25-04032024 — Lab Sample ID: 280-189645-9

No Detections.

Client Sample ID: POST-SO-SB4-30-04032024 — Lab Sample ID: 280-189645-10

No Detections.

Client Sample ID: POST-SO-SB4-35-04032024 — Lab Sample ID: 280-189645-11

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189645-1

Client Sample ID: POST-SO-SB4-40-04032024 — Lab Sample ID: 280-189645-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	27		6.2		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: POST-SO-SB4-45-04032024 — Lab Sample ID: 280-189645-13

No Detections.

Client Sample ID: POST-SO-SB4-50-04032024 — Lab Sample ID: 280-189645-14

No Detections.

Client Sample ID: DUP-SO-1-04032024 — Lab Sample ID: 280-189645-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110	H	95		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 280-189645-16

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189645-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
Moisture	Percent Moisture	EPA	EET DEN
5030B	Purge and Trap	SW846	EET DEN
5035	Closed System Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189645-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-189645-1	POST-SO-SB6-05-04022024	Solid	04/02/24 17:30	04/04/24 09:20
280-189645-2	POST-SO-SB6-10-04022024	Solid	04/02/24 17:50	04/04/24 09:20
280-189645-3	POST-SO-SB6-15-04022024	Solid	04/02/24 18:00	04/04/24 09:20
280-189645-4	POST-SO-SB6-20-04022024	Solid	04/02/24 18:05	04/04/24 09:20
280-189645-5	POST-SO-SB4-05-04032024	Solid	04/03/24 12:40	04/04/24 09:20
280-189645-6	POST-SO-SB4-10-04032024	Solid	04/03/24 12:45	04/04/24 09:20
280-189645-7	POST-SO-SB4-15-04032024	Solid	04/03/24 12:50	04/04/24 09:20
280-189645-8	POST-SO-SB4-20-04032024	Solid	04/03/24 13:05	04/04/24 09:20
280-189645-9	POST-SO-SB4-25-04032024	Solid	04/03/24 13:10	04/04/24 09:20
280-189645-10	POST-SO-SB4-30-04032024	Solid	04/03/24 13:15	04/04/24 09:20
280-189645-11	POST-SO-SB4-35-04032024	Solid	04/03/24 13:20	04/04/24 09:20
280-189645-12	POST-SO-SB4-40-04032024	Solid	04/03/24 13:25	04/04/24 09:20
280-189645-13	POST-SO-SB4-45-04032024	Solid	04/03/24 13:30	04/04/24 09:20
280-189645-14	POST-SO-SB4-50-04032024	Solid	04/03/24 13:55	04/04/24 09:20
280-189645-15	DUP-SO-1-04032024	Solid	04/03/24 12:00	04/04/24 09:20
280-189645-16	Trip Blank	Water	04/02/24 00:00	04/04/24 09:20

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

Client Sample ID: POST-SO-SB6-05-04022024
Lab Sample ID: 280-189645-1
Date Collected: 04/02/24 17:30
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 87.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Styrene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
cis-1,3-Dichloropropene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
trans-1,3-Dichloropropene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
N-Propylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
n-Butylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
4-Chlorotoluene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,4-Dichlorobenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Ethylene Dibromide	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
3-Chloro-1-propene	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,2-Dichloroethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Vinyl acetate	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
4-Methyl-2-pentanone (MIBK)	19	U H	19		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,3,5-Trimethylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Bromobenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Methylcyclohexane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Toluene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Chlorobenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Tetrahydrofuran	19	U H	19		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Hexane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Cyclohexane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,2,4-Trichlorobenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Chlorodibromomethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Tetrachloroethene	**33**	**H**	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
sec-Butylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,3-Dichloropropane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
cis-1,2-Dichloroethene	**7.8**	**H**	2.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
trans-1,2-Dichloroethene	2.4	U H	2.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Methyl tert-butyl ether	19	U H	19		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
m-Xylene & p-Xylene	2.4	U H	2.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,3-Dichlorobenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Carbon tetrachloride	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,1-Dichloropropene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
2-Hexanone	19	U H	19		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
2,2-Dichloropropane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Ethyl ether	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,1,1,2-Tetrachloroethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Acetone	**730**	**H**	76		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Chloroform	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Benzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,1,1-Trichloroethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Bromomethane	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Chloromethane	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Iodomethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Dibromomethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Chlorobromomethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Chloroethane	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Vinyl chloride	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Methylene Chloride	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1

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

Client Sample ID: POST-SO-SB6-05-04022024 — **Lab Sample ID: 280-189645-1**
Date Collected: 04/02/24 17:30 — **Matrix: Solid**
Date Received: 04/04/24 09:20 — **Percent Solids: 87.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Bromoform	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Dichlorobromomethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,1-Dichloroethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,1-Dichloroethene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Trichlorofluoromethane	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Dichlorodifluoromethane	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	19	U H	19		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,2-Dichloropropane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
2-Butanone (MEK)	**93**	**H**	19		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,1,2-Trichloroethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Trichloroethene	**15**	**H**	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Methyl acetate	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,1,2,2-Tetrachloroethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,2,3-Trichlorobenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Hexachlorobutadiene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Naphthalene	6.3	U H	6.3		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
o-Xylene	2.4	U H	2.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
2-Chlorotoluene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,2-Dichlorobenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,2,4-Trimethylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,2-Dibromo-3-Chloropropane	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,2,3-Trichloropropane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Ethyl methacrylate	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
tert-Butylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Isopropylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
4-Isopropyltoluene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Xylenes, Total	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,2-Dichloroethene, Total	**7.8**	**H**	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
1,3-Dichloropropene, Total	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Trihalomethanes, Total	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1
Total BTEX	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*58 - 140*	*04/05/24 10:31*	*04/14/24 16:36*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*04/05/24 10:31*	*04/14/24 16:36*	*1*
Toluene-d8 (Surr)	*100*		*80 - 126*	*04/05/24 10:31*	*04/14/24 16:36*	*1*
4-Bromofluorobenzene (Surr)	*107*		*76 - 127*	*04/05/24 10:31*	*04/14/24 16:36*	*1*

Client Sample ID: POST-SO-SB6-10-04022024 — **Lab Sample ID: 280-189645-2**
Date Collected: 04/02/24 17:50 — **Matrix: Solid**
Date Received: 04/04/24 09:20 — **Percent Solids: 82.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Styrene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
cis-1,3-Dichloropropene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
trans-1,3-Dichloropropene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
N-Propylbenzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
n-Butylbenzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
4-Chlorotoluene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1

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

Client Sample ID: POST-SO-SB6-10-04022024
Lab Sample ID: 280-189645-2
Date Collected: 04/02/24 17:50
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 82.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Ethylene Dibromide	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
3-Chloro-1-propene	11	U H	11		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,2-Dichloroethane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Vinyl acetate	11	U H	11		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
4-Methyl-2-pentanone (MIBK)	22	U H	22		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,3,5-Trimethylbenzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Bromobenzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Methylcyclohexane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Toluene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Chlorobenzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Tetrahydrofuran	22	U H	22		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Hexane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Cyclohexane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,2,4-Trichlorobenzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Chlorodibromomethane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Tetrachloroethene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
sec-Butylbenzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,3-Dichloropropane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
cis-1,2-Dichloroethene	2.7	U H	2.7		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
trans-1,2-Dichloroethene	2.7	U H	2.7		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Methyl tert-butyl ether	22	U H	22		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
m-Xylene & p-Xylene	2.7	U H	2.7		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,3-Dichlorobenzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Carbon tetrachloride	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,1-Dichloropropene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
2-Hexanone	22	U H	22		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
2,2-Dichloropropane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Ethyl ether	11	U H	11		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,1,1,2-Tetrachloroethane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Acetone	**120**	**H**	87		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Chloroform	11	U H	11		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Benzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,1,1-Trichloroethane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Bromomethane	11	U H	11		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Chloromethane	11	U H	11		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Iodomethane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Dibromomethane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Chlorobromomethane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Chloroethane	11	U H	11		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Vinyl chloride	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Methylene Chloride	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Carbon disulfide	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Bromoform	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Dichlorobromomethane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,1-Dichloroethane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,1-Dichloroethene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Trichlorofluoromethane	11	U H	11		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Dichlorodifluoromethane	11	U H	11		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1

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

Client Sample ID: POST-SO-SB6-10-04022024
Date Collected: 04/02/24 17:50
Date Received: 04/04/24 09:20
Lab Sample ID: 280-189645-2
Matrix: Solid
Percent Solids: 82.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	22	U H	22		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,2-Dichloropropane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
2-Butanone (MEK)	22	U H	22		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,1,2-Trichloroethane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Trichloroethene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Methyl acetate	11	U H	11		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,1,2,2-Tetrachloroethane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,2,3-Trichlorobenzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Hexachlorobutadiene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Naphthalene	7.2	U H	7.2		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
o-Xylene	2.7	U H	2.7		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
2-Chlorotoluene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,2-Dichlorobenzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,2,4-Trimethylbenzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,2-Dibromo-3-Chloropropane	11	U H	11		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,2,3-Trichloropropane	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Ethyl methacrylate	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
tert-Butylbenzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Isopropylbenzene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
4-Isopropyltoluene	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Xylenes, Total	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,2-Dichloroethene, Total	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
1,3-Dichloropropene, Total	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Trihalomethanes, Total	11	U H	11		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1
Total BTEX	5.4	U H	5.4		ug/Kg	☼	04/05/24 10:31	04/14/24 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*58 - 140*	*04/05/24 10:31*	*04/14/24 16:56*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*04/05/24 10:31*	*04/14/24 16:56*	*1*
Toluene-d8 (Surr)	*97*		*80 - 126*	*04/05/24 10:31*	*04/14/24 16:56*	*1*
4-Bromofluorobenzene (Surr)	*105*		*76 - 127*	*04/05/24 10:31*	*04/14/24 16:56*	*1*

Client Sample ID: POST-SO-SB6-15-04022024
Date Collected: 04/02/24 18:00
Date Received: 04/04/24 09:20
Lab Sample ID: 280-189645-3
Matrix: Solid
Percent Solids: 84.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Styrene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
cis-1,3-Dichloropropene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
trans-1,3-Dichloropropene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
N-Propylbenzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
n-Butylbenzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
4-Chlorotoluene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,4-Dichlorobenzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Ethylene Dibromide	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
3-Chloro-1-propene	9.8	U H	9.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,2-Dichloroethane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Vinyl acetate	9.8	U H	9.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
4-Methyl-2-pentanone (MIBK)	20	U H	20		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,3,5-Trimethylbenzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1

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

Client Sample ID: POST-SO-SB6-15-04022024
Lab Sample ID: 280-189645-3
Date Collected: 04/02/24 18:00
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 84.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Methylcyclohexane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Toluene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Chlorobenzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Tetrahydrofuran	20	U H	20		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Hexane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Cyclohexane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,2,4-Trichlorobenzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Chlorodibromomethane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Tetrachloroethene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
sec-Butylbenzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,3-Dichloropropane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
cis-1,2-Dichloroethene	2.5	U H	2.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
trans-1,2-Dichloroethene	2.5	U H	2.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Methyl tert-butyl ether	20	U H	20		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
m-Xylene & p-Xylene	2.5	U H	2.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,3-Dichlorobenzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Carbon tetrachloride	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,1-Dichloropropene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
2-Hexanone	20	U H	20		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
2,2-Dichloropropane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Ethyl ether	9.8	U H	9.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,1,1,2-Tetrachloroethane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Acetone	**83**	**H**	78		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Chloroform	9.8	U H	9.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Benzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,1,1-Trichloroethane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Bromomethane	9.8	U H	9.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Chloromethane	9.8	U H	9.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Iodomethane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Dibromomethane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Chlorobromomethane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Chloroethane	9.8	U H	9.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Vinyl chloride	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Methylene Chloride	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Carbon disulfide	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Bromoform	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Dichlorobromomethane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,1-Dichloroethane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,1-Dichloroethene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Trichlorofluoromethane	9.8	U H	9.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Dichlorodifluoromethane	9.8	U H	9.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U H	20		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,2-Dichloropropane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
2-Butanone (MEK)	20	U H	20		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,1,2-Trichloroethane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Trichloroethene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Methyl acetate	9.8	U H	9.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,1,2,2-Tetrachloroethane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1

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

Client Sample ID: POST-SO-SB6-15-04022024 — **Lab Sample ID: 280-189645-3**
Date Collected: 04/02/24 18:00 — **Matrix: Solid**
Date Received: 04/04/24 09:20 — **Percent Solids: 84.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Hexachlorobutadiene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Naphthalene	6.5	U H	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
o-Xylene	2.5	U H	2.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
2-Chlorotoluene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,2-Dichlorobenzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,2,4-Trimethylbenzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,2-Dibromo-3-Chloropropane	9.8	U H	9.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,2,3-Trichloropropane	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Ethyl methacrylate	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
tert-Butylbenzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Isopropylbenzene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
4-Isopropyltoluene	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Xylenes, Total	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,2-Dichloroethene, Total	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
1,3-Dichloropropene, Total	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Trihalomethanes, Total	9.8	U H	9.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1
Total BTEX	4.9	U H	4.9		ug/Kg	☼	04/05/24 10:31	04/14/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*58 - 140*	*04/05/24 10:31*	*04/14/24 17:16*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*	*04/05/24 10:31*	*04/14/24 17:16*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 10:31*	*04/14/24 17:16*	*1*
4-Bromofluorobenzene (Surr)	*105*		*76 - 127*	*04/05/24 10:31*	*04/14/24 17:16*	*1*

Client Sample ID: POST-SO-SB6-20-04022024 — **Lab Sample ID: 280-189645-4**
Date Collected: 04/02/24 18:05 — **Matrix: Solid**
Date Received: 04/04/24 09:20 — **Percent Solids: 87.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Styrene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
cis-1,3-Dichloropropene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
trans-1,3-Dichloropropene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
N-Propylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
n-Butylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
4-Chlorotoluene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,4-Dichlorobenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Ethylene Dibromide	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
3-Chloro-1-propene	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,2-Dichloroethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Vinyl acetate	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
4-Methyl-2-pentanone (MIBK)	19	U H	19		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,3,5-Trimethylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Bromobenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Methylcyclohexane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Toluene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Chlorobenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Tetrahydrofuran	19	U H	19		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Hexane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Cyclohexane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1

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

Client Sample ID: POST-SO-SB6-20-04022024
Lab Sample ID: 280-189645-4
Date Collected: 04/02/24 18:05
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 87.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Chlorodibromomethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Tetrachloroethene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
sec-Butylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,3-Dichloropropane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
cis-1,2-Dichloroethene	2.4	U H	2.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
trans-1,2-Dichloroethene	2.4	U H	2.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Methyl tert-butyl ether	19	U H	19		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
m-Xylene & p-Xylene	2.4	U H	2.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,3-Dichlorobenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Carbon tetrachloride	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,1-Dichloropropene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
2-Hexanone	19	U H	19		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
2,2-Dichloropropane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Ethyl ether	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,1,1,2-Tetrachloroethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Acetone	76	U H	76		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Chloroform	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Benzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,1,1-Trichloroethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Bromomethane	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Chloromethane	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Iodomethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Dibromomethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Chlorobromomethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Chloroethane	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Vinyl chloride	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Methylene Chloride	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Carbon disulfide	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Bromoform	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Dichlorobromomethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,1-Dichloroethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,1-Dichloroethene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Trichlorofluoromethane	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Dichlorodifluoromethane	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	19	U H	19		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,2-Dichloropropane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
2-Butanone (MEK)	19	U H	19		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,1,2-Trichloroethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Trichloroethene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Methyl acetate	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,1,2,2-Tetrachloroethane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,2,3-Trichlorobenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Hexachlorobutadiene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Naphthalene	6.3	U H	6.3		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
o-Xylene	2.4	U H	2.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
2-Chlorotoluene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,2-Dichlorobenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,2,4-Trimethylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1

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

Client Sample ID: POST-SO-SB6-20-04022024
Date Collected: 04/02/24 18:05
Date Received: 04/04/24 09:20
Lab Sample ID: 280-189645-4
Matrix: Solid
Percent Solids: 87.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,2,3-Trichloropropane	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Ethyl methacrylate	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
tert-Butylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Isopropylbenzene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
4-Isopropyltoluene	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Xylenes, Total	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,2-Dichloroethene, Total	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
1,3-Dichloropropene, Total	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Trihalomethanes, Total	9.5	U H	9.5		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1
Total BTEX	4.8	U H	4.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*	*04/05/24 10:31*	*04/14/24 17:36*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*	*04/05/24 10:31*	*04/14/24 17:36*	*1*
Toluene-d8 (Surr)	*98*		*80 - 126*	*04/05/24 10:31*	*04/14/24 17:36*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*04/05/24 10:31*	*04/14/24 17:36*	*1*

Client Sample ID: POST-SO-SB4-05-04032024
Date Collected: 04/03/24 12:40
Date Received: 04/04/24 09:20
Lab Sample ID: 280-189645-5
Matrix: Solid
Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Styrene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
cis-1,3-Dichloropropene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
trans-1,3-Dichloropropene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
N-Propylbenzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
n-Butylbenzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
4-Chlorotoluene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,4-Dichlorobenzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Ethylene Dibromide	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
3-Chloro-1-propene	15	U	15		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,2-Dichloroethane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Vinyl acetate	15	U	15		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
4-Methyl-2-pentanone (MIBK)	30	U	30		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,3,5-Trimethylbenzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Bromobenzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Methylcyclohexane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Toluene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Chlorobenzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Tetrahydrofuran	30	U	30		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Hexane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Cyclohexane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,2,4-Trichlorobenzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Chlorodibromomethane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Tetrachloroethene	**280**		7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
sec-Butylbenzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,3-Dichloropropane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
cis-1,2-Dichloroethene	3.7	U	3.7		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
trans-1,2-Dichloroethene	3.7	U	3.7		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1

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

Client Sample ID: POST-SO-SB4-05-04032024
Lab Sample ID: 280-189645-5
Date Collected: 04/03/24 12:40
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	30	U	30		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
m-Xylene & p-Xylene	3.7	U	3.7		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,3-Dichlorobenzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Carbon tetrachloride	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,1-Dichloropropene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
2-Hexanone	30	U	30		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
2,2-Dichloropropane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Ethyl ether	15	U	15		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,1,1,2-Tetrachloroethane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Acetone	**480**		120		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Chloroform	15	U	15		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Benzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,1,1-Trichloroethane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Bromomethane	15	U	15		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Chloromethane	15	U	15		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Iodomethane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Dibromomethane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Chlorobromomethane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Chloroethane	15	U	15		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Vinyl chloride	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Methylene Chloride	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Carbon disulfide	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Bromoform	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Dichlorobromomethane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,1-Dichloroethane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,1-Dichloroethene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Trichlorofluoromethane	15	U	15		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Dichlorodifluoromethane	15	U	15		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	30	U	30		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,2-Dichloropropane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
2-Butanone (MEK)	**57**		30		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,1,2-Trichloroethane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Trichloroethene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Methyl acetate	15	U	15		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,1,2,2-Tetrachloroethane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,2,3-Trichlorobenzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Hexachlorobutadiene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Naphthalene	9.8	U	9.8		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
o-Xylene	3.7	U	3.7		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
2-Chlorotoluene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,2-Dichlorobenzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,2,4-Trimethylbenzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,2-Dibromo-3-Chloropropane	15	U	15		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,2,3-Trichloropropane	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Ethyl methacrylate	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
tert-Butylbenzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Isopropylbenzene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
4-Isopropyltoluene	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Xylenes, Total	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1

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

Client Sample ID: POST-SO-SB4-05-04032024 — **Lab Sample ID: 280-189645-5**
Date Collected: 04/03/24 12:40 — **Matrix: Solid**
Date Received: 04/04/24 09:20 — **Percent Solids: 85.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
1,3-Dichloropropene, Total	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Trihalomethanes, Total	15	U	15		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1
Total BTEX	7.4	U	7.4		ug/Kg	☼	04/05/24 10:31	04/14/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*58 - 140*	*04/05/24 10:31*	*04/14/24 17:56*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 121*	*04/05/24 10:31*	*04/14/24 17:56*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 10:31*	*04/14/24 17:56*	*1*
4-Bromofluorobenzene (Surr)	*110*		*76 - 127*	*04/05/24 10:31*	*04/14/24 17:56*	*1*

Client Sample ID: POST-SO-SB4-10-04032024 — **Lab Sample ID: 280-189645-6**
Date Collected: 04/03/24 12:45 — **Matrix: Solid**
Date Received: 04/04/24 09:20 — **Percent Solids: 80.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Styrene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
cis-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
trans-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
N-Propylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
n-Butylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
4-Chlorotoluene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,4-Dichlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Ethylene Dibromide	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
3-Chloro-1-propene	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,2-Dichloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Vinyl acetate	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,3,5-Trimethylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Bromobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Methylcyclohexane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Toluene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Chlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Tetrahydrofuran	23	U	23		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Hexane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Cyclohexane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,2,4-Trichlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Chlorodibromomethane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Tetrachloroethene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
sec-Butylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,3-Dichloropropane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Methyl tert-butyl ether	23	U	23		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
m-Xylene & p-Xylene	2.9	U	2.9		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,3-Dichlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Carbon tetrachloride	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,1-Dichloropropene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
2-Hexanone	23	U	23		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
2,2-Dichloropropane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1

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

Client Sample ID: POST-SO-SB4-10-04032024
Lab Sample ID: 280-189645-6
Date Collected: 04/03/24 12:45
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 80.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,1,1,2-Tetrachloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Acetone	**180**		93		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Chloroform	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Benzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,1,1-Trichloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Bromomethane	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Chloromethane	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Iodomethane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Dibromomethane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Chlorobromomethane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Chloroethane	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Vinyl chloride	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Methylene Chloride	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Carbon disulfide	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Bromoform	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Dichlorobromomethane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,1-Dichloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,1-Dichloroethene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Trichlorofluoromethane	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Dichlorodifluoromethane	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	23		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,2-Dichloropropane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,1,2-Trichloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Trichloroethene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Methyl acetate	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,1,2,2-Tetrachloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,2,3-Trichlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Hexachlorobutadiene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Naphthalene	7.7	U	7.7		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
o-Xylene	2.9	U	2.9		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
2-Chlorotoluene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,2-Dichlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,2,4-Trimethylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,2-Dibromo-3-Chloropropane	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,2,3-Trichloropropane	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Ethyl methacrylate	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
tert-Butylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Isopropylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
4-Isopropyltoluene	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Xylenes, Total	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,2-Dichloroethene, Total	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
1,3-Dichloropropene, Total	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Trihalomethanes, Total	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1
Total BTEX	5.8	U	5.8		ug/Kg	☼	04/05/24 10:31	04/14/24 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*	*04/05/24 10:31*	*04/14/24 18:16*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*04/05/24 10:31*	*04/14/24 18:16*	*1*

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

Client Sample ID: POST-SO-SB4-10-04032024
Date Collected: 04/03/24 12:45
Date Received: 04/04/24 09:20

Lab Sample ID: 280-189645-6
Matrix: Solid
Percent Solids: 80.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 10:31*	*04/14/24 18:16*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*	*04/05/24 10:31*	*04/14/24 18:16*	*1*

Client Sample ID: POST-SO-SB4-15-04032024
Date Collected: 04/03/24 12:50
Date Received: 04/04/24 09:20

Lab Sample ID: 280-189645-7
Matrix: Solid
Percent Solids: 83.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Styrene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
cis-1,3-Dichloropropene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
trans-1,3-Dichloropropene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
N-Propylbenzene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
n-Butylbenzene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
4-Chlorotoluene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
1,4-Dichlorobenzene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Ethylene Dibromide	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
3-Chloro-1-propene	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
1,2-Dichloroethane	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Vinyl acetate	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
4-Methyl-2-pentanone (MIBK)	21	U	21		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
1,3,5-Trimethylbenzene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Bromobenzene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Methylcyclohexane	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Toluene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Chlorobenzene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Tetrahydrofuran	21	U	21		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Hexane	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Cyclohexane	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
1,2,4-Trichlorobenzene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Chlorodibromomethane	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Tetrachloroethene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
sec-Butylbenzene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
1,3-Dichloropropane	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
cis-1,2-Dichloroethene	2.6	U	2.6		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
trans-1,2-Dichloroethene	2.6	U	2.6		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Methyl tert-butyl ether	21	U	21		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
m-Xylene & p-Xylene	2.6	U	2.6		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
1,3-Dichlorobenzene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Carbon tetrachloride	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
1,1-Dichloropropene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
2-Hexanone	21	U	21		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
2,2-Dichloropropane	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Ethyl ether	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
1,1,1,2-Tetrachloroethane	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Acetone	**110**		83		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Chloroform	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Benzene	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
1,1,1-Trichloroethane	5.2	U	5.2		ug/Kg		04/05/24 10:31	04/14/24 18:35	1
Bromomethane	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 18:35	1

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

Client Sample ID: POST-SO-SB4-15-04032024 — **Lab Sample ID: 280-189645-7**
Date Collected: 04/03/24 12:50 — **Matrix: Solid**
Date Received: 04/04/24 09:20 — **Percent Solids: 83.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	10	U	10		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Iodomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Dibromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Chlorobromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Chloroethane	10	U	10		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Vinyl chloride	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Methylene Chloride	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Carbon disulfide	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Bromoform	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Dichlorobromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
1,1-Dichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
1,1-Dichloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Trichlorofluoromethane	10	U	10		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Dichlorodifluoromethane	10	U	10		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
1,2-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
2-Butanone (MEK)	21	U	21		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
1,1,2-Trichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Trichloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Methyl acetate	10	U	10		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
1,1,2,2-Tetrachloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
1,2,3-Trichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Hexachlorobutadiene	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Naphthalene	6.9	U	6.9		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
o-Xylene	2.6	U	2.6		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
2-Chlorotoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
1,2-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
1,2,4-Trimethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
1,2,3-Trichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Ethyl methacrylate	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
tert-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Isopropylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
4-Isopropyltoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Xylenes, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
1,2-Dichloroethene, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
1,3-Dichloropropene, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Trihalomethanes, Total	10	U	10		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1
Total BTEX	5.2	U	5.2		ug/Kg	☼	04/05/24 10:31	04/14/24 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*58 - 140*	*04/05/24 10:31*	*04/14/24 18:35*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*04/05/24 10:31*	*04/14/24 18:35*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 10:31*	*04/14/24 18:35*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*	*04/05/24 10:31*	*04/14/24 18:35*	*1*

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

Client Sample ID: POST-SO-SB4-20-04032024
Date Collected: 04/03/24 13:05
Date Received: 04/04/24 09:20

Lab Sample ID: 280-189645-8
Matrix: Solid
Percent Solids: 85.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Styrene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
cis-1,3-Dichloropropene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
trans-1,3-Dichloropropene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
N-Propylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
n-Butylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
4-Chlorotoluene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,4-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Ethylene Dibromide	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
3-Chloro-1-propene	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,2-Dichloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Vinyl acetate	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
4-Methyl-2-pentanone (MIBK)	21	U	21		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,3,5-Trimethylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Bromobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Methylcyclohexane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Toluene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Chlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Tetrahydrofuran	21	U	21		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Hexane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Cyclohexane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,2,4-Trichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Chlorodibromomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Tetrachloroethene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
sec-Butylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,3-Dichloropropane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
cis-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
trans-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Methyl tert-butyl ether	21	U	21		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
m-Xylene & p-Xylene	2.6	U	2.6		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,3-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Carbon tetrachloride	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,1-Dichloropropene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
2-Hexanone	21	U	21		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
2,2-Dichloropropane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Ethyl ether	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,1,1,2-Tetrachloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Acetone	**160**		84		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Chloroform	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Benzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,1,1-Trichloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Bromomethane	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Chloromethane	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Iodomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Dibromomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Chlorobromomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Chloroethane	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Vinyl chloride	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Methylene Chloride	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1

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

Client Sample ID: POST-SO-SB4-20-04032024 — **Lab Sample ID: 280-189645-8**
Date Collected: 04/03/24 13:05 — **Matrix: Solid**
Date Received: 04/04/24 09:20 — **Percent Solids: 85.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Bromoform	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Dichlorobromomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,1-Dichloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,1-Dichloroethene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Trichlorofluoromethane	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Dichlorodifluoromethane	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,2-Dichloropropane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
2-Butanone (MEK)	21	U	21		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,1,2-Trichloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Trichloroethene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Methyl acetate	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,1,2,2-Tetrachloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,2,3-Trichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Hexachlorobutadiene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Naphthalene	6.9	U	6.9		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
o-Xylene	2.6	U	2.6		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
2-Chlorotoluene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,2-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,2,4-Trimethylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,2,3-Trichloropropane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Ethyl methacrylate	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
tert-Butylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Isopropylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
4-Isopropyltoluene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Xylenes, Total	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,2-Dichloroethene, Total	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
1,3-Dichloropropene, Total	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Trihalomethanes, Total	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1
Total BTEX	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*58 - 140*	*04/05/24 10:31*	*04/14/24 18:55*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*04/05/24 10:31*	*04/14/24 18:55*	*1*
Toluene-d8 (Surr)	*98*		*80 - 126*	*04/05/24 10:31*	*04/14/24 18:55*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*04/05/24 10:31*	*04/14/24 18:55*	*1*

Client Sample ID: POST-SO-SB4-25-04032024 — **Lab Sample ID: 280-189645-9**
Date Collected: 04/03/24 13:10 — **Matrix: Solid**
Date Received: 04/04/24 09:20 — **Percent Solids: 85.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Styrene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
cis-1,3-Dichloropropene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
trans-1,3-Dichloropropene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
N-Propylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
n-Butylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
4-Chlorotoluene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1

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

Client Sample ID: POST-SO-SB4-25-04032024
Lab Sample ID: 280-189645-9
Date Collected: 04/03/24 13:10
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Ethylene Dibromide	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
3-Chloro-1-propene	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,2-Dichloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Vinyl acetate	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
4-Methyl-2-pentanone (MIBK)	21	U	21		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,3,5-Trimethylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Bromobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Methylcyclohexane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Toluene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Chlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Tetrahydrofuran	21	U	21		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Hexane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Cyclohexane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,2,4-Trichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Chlorodibromomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Tetrachloroethene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
sec-Butylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,3-Dichloropropane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
cis-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
trans-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Methyl tert-butyl ether	21	U	21		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
m-Xylene & p-Xylene	2.6	U	2.6		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,3-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Carbon tetrachloride	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,1-Dichloropropene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
2-Hexanone	21	U	21		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
2,2-Dichloropropane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Ethyl ether	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,1,1,2-Tetrachloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Acetone	84	U	84		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Chloroform	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Benzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,1,1-Trichloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Bromomethane	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Chloromethane	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Iodomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Dibromomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Chlorobromomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Chloroethane	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Vinyl chloride	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Methylene Chloride	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Carbon disulfide	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Bromoform	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Dichlorobromomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,1-Dichloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,1-Dichloroethene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Trichlorofluoromethane	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Dichlorodifluoromethane	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1

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

Client Sample ID: POST-SO-SB4-25-04032024 — **Lab Sample ID: 280-189645-9**
Date Collected: 04/03/24 13:10 — **Matrix: Solid**
Date Received: 04/04/24 09:20 — **Percent Solids: 85.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,2-Dichloropropane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
2-Butanone (MEK)	21	U	21		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,1,2-Trichloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Trichloroethene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Methyl acetate	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,1,2,2-Tetrachloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,2,3-Trichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Hexachlorobutadiene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Naphthalene	7.0	U	7.0		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
o-Xylene	2.6	U	2.6		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
2-Chlorotoluene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,2-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,2,4-Trimethylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,2,3-Trichloropropane	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Ethyl methacrylate	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
tert-Butylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Isopropylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
4-Isopropyltoluene	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Xylenes, Total	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,2-Dichloroethene, Total	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
1,3-Dichloropropene, Total	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Trihalomethanes, Total	11	U	11		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1
Total BTEX	5.3	U	5.3		ug/Kg	☼	04/05/24 10:31	04/14/24 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*58 - 140*	*04/05/24 10:31*	*04/14/24 19:14*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*04/05/24 10:31*	*04/14/24 19:14*	*1*
Toluene-d8 (Surr)	*98*		*80 - 126*	*04/05/24 10:31*	*04/14/24 19:14*	*1*
4-Bromofluorobenzene (Surr)	*105*		*76 - 127*	*04/05/24 10:31*	*04/14/24 19:14*	*1*

Client Sample ID: POST-SO-SB4-30-04032024 — **Lab Sample ID: 280-189645-10**
Date Collected: 04/03/24 13:15 — **Matrix: Solid**
Date Received: 04/04/24 09:20 — **Percent Solids: 85.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Styrene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
cis-1,3-Dichloropropene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
trans-1,3-Dichloropropene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
N-Propylbenzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
n-Butylbenzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
4-Chlorotoluene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,4-Dichlorobenzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Ethylene Dibromide	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
3-Chloro-1-propene	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,2-Dichloroethane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Vinyl acetate	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
4-Methyl-2-pentanone (MIBK)	24	U	24		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,3,5-Trimethylbenzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1

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

Client Sample ID: POST-SO-SB4-30-04032024
Lab Sample ID: 280-189645-10
Date Collected: 04/03/24 13:15
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Methylcyclohexane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Toluene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Chlorobenzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Tetrahydrofuran	24	U	24		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Hexane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Cyclohexane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,2,4-Trichlorobenzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Chlorodibromomethane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Tetrachloroethene	6.1	U F1	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
sec-Butylbenzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,3-Dichloropropane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
cis-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
trans-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Methyl tert-butyl ether	24	U	24		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
m-Xylene & p-Xylene	3.1	U	3.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,3-Dichlorobenzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Carbon tetrachloride	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,1-Dichloropropene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
2-Hexanone	24	U	24		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
2,2-Dichloropropane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Ethyl ether	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,1,1,2-Tetrachloroethane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Acetone	98	U	98		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Chloroform	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Benzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,1,1-Trichloroethane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Bromomethane	12	U F1 F2	12		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Chloromethane	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Iodomethane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Dibromomethane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Chlorobromomethane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Chloroethane	12	U F1	12		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Vinyl chloride	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Methylene Chloride	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Carbon disulfide	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Bromoform	6.1	U F1	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Dichlorobromomethane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,1-Dichloroethane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,1-Dichloroethene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Trichlorofluoromethane	12	U F1 F2	12		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Dichlorodifluoromethane	12	U F1 F2	12		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	24		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,2-Dichloropropane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
2-Butanone (MEK)	24	U	24		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,1,2-Trichloroethane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Trichloroethene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Methyl acetate	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,1,2,2-Tetrachloroethane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1

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

Client Sample ID: POST-SO-SB4-30-04032024 — **Lab Sample ID: 280-189645-10**
Date Collected: 04/03/24 13:15 — **Matrix: Solid**
Date Received: 04/04/24 09:20 — **Percent Solids: 85.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Hexachlorobutadiene	6.1	U F1	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Naphthalene	8.1	U	8.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
o-Xylene	3.1	U	3.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
2-Chlorotoluene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,2-Dichlorobenzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,2,4-Trimethylbenzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,2-Dibromo-3-Chloropropane	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,2,3-Trichloropropane	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Ethyl methacrylate	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
tert-Butylbenzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Isopropylbenzene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
4-Isopropyltoluene	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Xylenes, Total	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,2-Dichloroethene, Total	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
1,3-Dichloropropene, Total	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Trihalomethanes, Total	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1
Total BTEX	6.1	U	6.1		ug/Kg	☼	04/05/24 10:31	04/14/24 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*58 - 140*	*04/05/24 10:31*	*04/14/24 19:34*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*	*04/05/24 10:31*	*04/14/24 19:34*	*1*
Toluene-d8 (Surr)	*97*		*80 - 126*	*04/05/24 10:31*	*04/14/24 19:34*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*	*04/05/24 10:31*	*04/14/24 19:34*	*1*

Client Sample ID: POST-SO-SB4-35-04032024 — **Lab Sample ID: 280-189645-11**
Date Collected: 04/03/24 13:20 — **Matrix: Solid**
Date Received: 04/04/24 09:20 — **Percent Solids: 82.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Styrene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
cis-1,3-Dichloropropene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
trans-1,3-Dichloropropene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
N-Propylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
n-Butylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
4-Chlorotoluene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,4-Dichlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Ethylene Dibromide	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
3-Chloro-1-propene	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,2-Dichloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Vinyl acetate	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
4-Methyl-2-pentanone (MIBK)	26	U	26		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,3,5-Trimethylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Bromobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Methylcyclohexane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Toluene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Chlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Tetrahydrofuran	26	U	26		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Hexane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Cyclohexane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1

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

Client Sample ID: POST-SO-SB4-35-04032024
Lab Sample ID: 280-189645-11
Date Collected: 04/03/24 13:20
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 82.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Chlorodibromomethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Tetrachloroethene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
sec-Butylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,3-Dichloropropane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
cis-1,2-Dichloroethene	3.2	U	3.2		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
trans-1,2-Dichloroethene	3.2	U	3.2		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Methyl tert-butyl ether	26	U	26		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
m-Xylene & p-Xylene	3.2	U	3.2		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,3-Dichlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Carbon tetrachloride	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,1-Dichloropropene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
2-Hexanone	26	U	26		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
2,2-Dichloropropane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Ethyl ether	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,1,1,2-Tetrachloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Acetone	100	U	100		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Chloroform	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Benzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,1,1-Trichloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Bromomethane	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Chloromethane	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Iodomethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Dibromomethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Chlorobromomethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Chloroethane	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Vinyl chloride	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Methylene Chloride	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Carbon disulfide	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Bromoform	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Dichlorobromomethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,1-Dichloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,1-Dichloroethene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Trichlorofluoromethane	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Dichlorodifluoromethane	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	26	U	26		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,2-Dichloropropane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
2-Butanone (MEK)	26	U	26		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,1,2-Trichloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Trichloroethene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Methyl acetate	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,1,2,2-Tetrachloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,2,3-Trichlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Hexachlorobutadiene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Naphthalene	8.5	U	8.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
o-Xylene	3.2	U	3.2		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
2-Chlorotoluene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,2-Dichlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,2,4-Trimethylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1

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

Client Sample ID: POST-SO-SB4-35-04032024
Date Collected: 04/03/24 13:20
Date Received: 04/04/24 09:20
Lab Sample ID: 280-189645-11
Matrix: Solid
Percent Solids: 82.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,2,3-Trichloropropane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Ethyl methacrylate	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
tert-Butylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Isopropylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
4-Isopropyltoluene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Xylenes, Total	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,2-Dichloroethene, Total	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
1,3-Dichloropropene, Total	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Trihalomethanes, Total	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1
Total BTEX	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*58 - 140*	*04/05/24 10:31*	*04/14/24 19:54*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*04/05/24 10:31*	*04/14/24 19:54*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 10:31*	*04/14/24 19:54*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*04/05/24 10:31*	*04/14/24 19:54*	*1*

Client Sample ID: POST-SO-SB4-40-04032024
Date Collected: 04/03/24 13:25
Date Received: 04/04/24 09:20
Lab Sample ID: 280-189645-12
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Styrene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
cis-1,3-Dichloropropene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
trans-1,3-Dichloropropene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
N-Propylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
n-Butylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
4-Chlorotoluene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,4-Dichlorobenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Ethylene Dibromide	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
3-Chloro-1-propene	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,2-Dichloroethane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Vinyl acetate	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
4-Methyl-2-pentanone (MIBK)	25	U	25		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,3,5-Trimethylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Bromobenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Methylcyclohexane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Toluene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Chlorobenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Tetrahydrofuran	25	U	25		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Hexane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Cyclohexane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,2,4-Trichlorobenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Chlorodibromomethane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Tetrachloroethene	**27**		6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
sec-Butylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,3-Dichloropropane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
cis-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
trans-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1

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

Client Sample ID: POST-SO-SB4-40-04032024
Lab Sample ID: 280-189645-12
Date Collected: 04/03/24 13:25
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	25	U	25		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
m-Xylene & p-Xylene	3.1	U	3.1		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,3-Dichlorobenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Carbon tetrachloride	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,1-Dichloropropene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
2-Hexanone	25	U	25		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
2,2-Dichloropropane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Ethyl ether	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,1,1,2-Tetrachloroethane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Acetone	99	U	99		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Chloroform	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Benzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,1,1-Trichloroethane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Bromomethane	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Chloromethane	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Iodomethane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Dibromomethane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Chlorobromomethane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Chloroethane	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Vinyl chloride	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Methylene Chloride	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Carbon disulfide	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Bromoform	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Dichlorobromomethane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,1-Dichloroethane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,1-Dichloroethene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Trichlorofluoromethane	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Dichlorodifluoromethane	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	25	U	25		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,2-Dichloropropane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
2-Butanone (MEK)	25	U	25		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,1,2-Trichloroethane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Trichloroethene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Methyl acetate	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,1,2,2-Tetrachloroethane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,2,3-Trichlorobenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Hexachlorobutadiene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Naphthalene	8.2	U	8.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
o-Xylene	3.1	U	3.1		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
2-Chlorotoluene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,2-Dichlorobenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,2,4-Trimethylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,2-Dibromo-3-Chloropropane	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,2,3-Trichloropropane	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Ethyl methacrylate	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
tert-Butylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Isopropylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
4-Isopropyltoluene	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Xylenes, Total	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1

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

Client Sample ID: POST-SO-SB4-40-04032024
Lab Sample ID: 280-189645-12
Date Collected: 04/03/24 13:25
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
1,3-Dichloropropene, Total	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Trihalomethanes, Total	12	U	12		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1
Total BTEX	6.2	U	6.2		ug/Kg	☼	04/05/24 10:31	04/14/24 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*58 - 140*	*04/05/24 10:31*	*04/14/24 20:14*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*04/05/24 10:31*	*04/14/24 20:14*	*1*
Toluene-d8 (Surr)	*97*		*80 - 126*	*04/05/24 10:31*	*04/14/24 20:14*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*	*04/05/24 10:31*	*04/14/24 20:14*	*1*

Client Sample ID: POST-SO-SB4-45-04032024
Lab Sample ID: 280-189645-13
Date Collected: 04/03/24 13:30
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Styrene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
cis-1,3-Dichloropropene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
trans-1,3-Dichloropropene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
N-Propylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
n-Butylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
4-Chlorotoluene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,4-Dichlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Ethylene Dibromide	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
3-Chloro-1-propene	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,2-Dichloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Vinyl acetate	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
4-Methyl-2-pentanone (MIBK)	26	U	26		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,3,5-Trimethylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Bromobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Methylcyclohexane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Toluene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Chlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Tetrahydrofuran	26	U	26		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Hexane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Cyclohexane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,2,4-Trichlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Chlorodibromomethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Tetrachloroethene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
sec-Butylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,3-Dichloropropane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
cis-1,2-Dichloroethene	3.3	U	3.3		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
trans-1,2-Dichloroethene	3.3	U	3.3		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Methyl tert-butyl ether	26	U	26		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
m-Xylene & p-Xylene	3.3	U	3.3		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,3-Dichlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Carbon tetrachloride	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,1-Dichloropropene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
2-Hexanone	26	U	26		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
2,2-Dichloropropane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1

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

Client Sample ID: POST-SO-SB4-45-04032024
Date Collected: 04/03/24 13:30
Date Received: 04/04/24 09:20

Lab Sample ID: 280-189645-13
Matrix: Solid
Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,1,1,2-Tetrachloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Acetone	100	U	100		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Chloroform	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Benzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,1,1-Trichloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Bromomethane	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Chloromethane	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Iodomethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Dibromomethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Chlorobromomethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Chloroethane	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Vinyl chloride	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Methylene Chloride	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Carbon disulfide	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Bromoform	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Dichlorobromomethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,1-Dichloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,1-Dichloroethene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Trichlorofluoromethane	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Dichlorodifluoromethane	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	26	U	26		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,2-Dichloropropane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
2-Butanone (MEK)	26	U	26		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,1,2-Trichloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Trichloroethene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Methyl acetate	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,1,2,2-Tetrachloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,2,3-Trichlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Hexachlorobutadiene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Naphthalene	8.6	U	8.6		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
o-Xylene	3.3	U	3.3		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
2-Chlorotoluene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,2-Dichlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,2,4-Trimethylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,2-Dibromo-3-Chloropropane	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,2,3-Trichloropropane	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Ethyl methacrylate	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
tert-Butylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Isopropylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
4-Isopropyltoluene	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Xylenes, Total	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,2-Dichloroethene, Total	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
1,3-Dichloropropene, Total	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Trihalomethanes, Total	13	U	13		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1
Total BTEX	6.5	U	6.5		ug/Kg	☼	04/05/24 10:31	04/14/24 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*58 - 140*	*04/05/24 10:31*	*04/14/24 20:33*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 121*	*04/05/24 10:31*	*04/14/24 20:33*	*1*

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

Client Sample ID: POST-SO-SB4-45-04032024
Date Collected: 04/03/24 13:30
Date Received: 04/04/24 09:20
Lab Sample ID: 280-189645-13
Matrix: Solid
Percent Solids: 84.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*100*		*80 - 126*	*04/05/24 10:31*	*04/14/24 20:33*	*1*
4-Bromofluorobenzene (Surr)	*106*		*76 - 127*	*04/05/24 10:31*	*04/14/24 20:33*	*1*

Client Sample ID: POST-SO-SB4-50-04032024
Date Collected: 04/03/24 13:55
Date Received: 04/04/24 09:20
Lab Sample ID: 280-189645-14
Matrix: Solid
Percent Solids: 85.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Styrene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
cis-1,3-Dichloropropene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
trans-1,3-Dichloropropene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
N-Propylbenzene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
n-Butylbenzene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
4-Chlorotoluene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
1,4-Dichlorobenzene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Ethylene Dibromide	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
3-Chloro-1-propene	14	U	14		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
1,2-Dichloroethane	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Vinyl acetate	14	U	14		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
4-Methyl-2-pentanone (MIBK)	28	U	28		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
1,3,5-Trimethylbenzene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Bromobenzene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Methylcyclohexane	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Toluene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Chlorobenzene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Tetrahydrofuran	28	U	28		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Hexane	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Cyclohexane	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
1,2,4-Trichlorobenzene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Chlorodibromomethane	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Tetrachloroethene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
sec-Butylbenzene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
1,3-Dichloropropane	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
cis-1,2-Dichloroethene	3.5	U	3.5		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
trans-1,2-Dichloroethene	3.5	U	3.5		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Methyl tert-butyl ether	28	U	28		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
m-Xylene & p-Xylene	3.5	U	3.5		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
1,3-Dichlorobenzene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Carbon tetrachloride	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
1,1-Dichloropropene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
2-Hexanone	28	U	28		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
2,2-Dichloropropane	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Ethyl ether	14	U	14		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
1,1,1,2-Tetrachloroethane	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Acetone	110	U	110		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Chloroform	14	U	14		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Benzene	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
1,1,1-Trichloroethane	7.1	U	7.1		ug/Kg		04/05/24 10:31	04/16/24 13:23	1
Bromomethane	14	U	14		ug/Kg		04/05/24 10:31	04/16/24 13:23	1

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

Client Sample ID: POST-SO-SB4-50-04032024
Lab Sample ID: 280-189645-14
Date Collected: 04/03/24 13:55
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	14	U	14		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Iodomethane	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Dibromomethane	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Chlorobromomethane	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Chloroethane	14	U	14		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Vinyl chloride	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Methylene Chloride	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Carbon disulfide	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Bromoform	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Dichlorobromomethane	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
1,1-Dichloroethane	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
1,1-Dichloroethene	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Trichlorofluoromethane	14	U	14		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Dichlorodifluoromethane	14	U	14		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	28	U	28		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
1,2-Dichloropropane	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
2-Butanone (MEK)	28	U	28		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
1,1,2-Trichloroethane	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Trichloroethene	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Methyl acetate	14	U	14		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
1,1,2,2-Tetrachloroethane	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
1,2,3-Trichlorobenzene	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Hexachlorobutadiene	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Naphthalene	9.4	U	9.4		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
o-Xylene	3.5	U	3.5		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
2-Chlorotoluene	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
1,2-Dichlorobenzene	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
1,2,4-Trimethylbenzene	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
1,2-Dibromo-3-Chloropropane	14	U	14		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
1,2,3-Trichloropropane	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Ethyl methacrylate	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
tert-Butylbenzene	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Isopropylbenzene	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
4-Isopropyltoluene	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Xylenes, Total	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
1,2-Dichloroethene, Total	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
1,3-Dichloropropene, Total	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Trihalomethanes, Total	14	U	14		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1
Total BTEX	7.1	U	7.1		ug/Kg	☼	04/05/24 10:31	04/16/24 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*58 - 140*	*04/05/24 10:31*	*04/16/24 13:23*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*04/05/24 10:31*	*04/16/24 13:23*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 10:31*	*04/16/24 13:23*	*1*
4-Bromofluorobenzene (Surr)	*105*		*76 - 127*	*04/05/24 10:31*	*04/16/24 13:23*	*1*

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

Client Sample ID: DUP-SO-1-04032024
Lab Sample ID: 280-189645-15
Date Collected: 04/03/24 12:00
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 83.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Styrene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
cis-1,3-Dichloropropene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
trans-1,3-Dichloropropene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
N-Propylbenzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
n-Butylbenzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
4-Chlorotoluene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,4-Dichlorobenzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Ethylene Dibromide	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
3-Chloro-1-propene	12	U H	12		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,2-Dichloroethane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Vinyl acetate	12	U H	12		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
4-Methyl-2-pentanone (MIBK)	24	U H	24		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,3,5-Trimethylbenzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Bromobenzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Methylcyclohexane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Toluene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Chlorobenzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Tetrahydrofuran	24	U H	24		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Hexane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Cyclohexane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,2,4-Trichlorobenzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Chlorodibromomethane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Tetrachloroethene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
sec-Butylbenzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,3-Dichloropropane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
cis-1,2-Dichloroethene	3.0	U H	3.0		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
trans-1,2-Dichloroethene	3.0	U H	3.0		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Methyl tert-butyl ether	24	U H	24		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
m-Xylene & p-Xylene	3.0	U H	3.0		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,3-Dichlorobenzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Carbon tetrachloride	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,1-Dichloropropene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
2-Hexanone	24	U H	24		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
2,2-Dichloropropane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Ethyl ether	12	U H	12		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,1,1,2-Tetrachloroethane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Acetone	**110**	**H**	95		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Chloroform	12	U H	12		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Benzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,1,1-Trichloroethane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Bromomethane	12	U H	12		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Chloromethane	12	U H	12		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Iodomethane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Dibromomethane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Chlorobromomethane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Chloroethane	12	U H	12		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Vinyl chloride	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Methylene Chloride	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1

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

Client Sample ID: DUP-SO-1-04032024
Date Collected: 04/03/24 12:00
Date Received: 04/04/24 09:20
Lab Sample ID: 280-189645-15
Matrix: Solid
Percent Solids: 83.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Bromoform	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Dichlorobromomethane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,1-Dichloroethane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,1-Dichloroethene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Trichlorofluoromethane	12	U H	12		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Dichlorodifluoromethane	12	U H	12		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	24	U H	24		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,2-Dichloropropane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
2-Butanone (MEK)	24	U H	24		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,1,2-Trichloroethane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Trichloroethene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Methyl acetate	12	U H	12		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,1,2,2-Tetrachloroethane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,2,3-Trichlorobenzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Hexachlorobutadiene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Naphthalene	7.8	U H	7.8		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
o-Xylene	3.0	U H	3.0		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
2-Chlorotoluene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,2-Dichlorobenzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,2,4-Trimethylbenzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,2-Dibromo-3-Chloropropane	12	U H	12		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,2,3-Trichloropropane	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Ethyl methacrylate	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
tert-Butylbenzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Isopropylbenzene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
4-Isopropyltoluene	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Xylenes, Total	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,2-Dichloroethene, Total	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
1,3-Dichloropropene, Total	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Trihalomethanes, Total	12	U H	12		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1
Total BTEX	5.9	U H	5.9		ug/Kg	☼	04/05/24 10:31	04/14/24 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*	*04/05/24 10:31*	*04/14/24 21:13*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*04/05/24 10:31*	*04/14/24 21:13*	*1*
Toluene-d8 (Surr)	*98*		*80 - 126*	*04/05/24 10:31*	*04/14/24 21:13*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*04/05/24 10:31*	*04/14/24 21:13*	*1*

Client Sample ID: Trip Blank
Date Collected: 04/02/24 00:00
Date Received: 04/04/24 09:20
Lab Sample ID: 280-189645-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			04/05/24 21:21	1
Styrene	1.0	U	1.0		ug/L			04/05/24 21:21	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			04/05/24 21:21	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			04/05/24 21:21	1
N-Propylbenzene	1.0	U	1.0		ug/L			04/05/24 21:21	1
n-Butylbenzene	1.0	U	1.0		ug/L			04/05/24 21:21	1
4-Chlorotoluene	1.0	U	1.0		ug/L			04/05/24 21:21	1

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

Client Sample ID: Trip Blank
Date Collected: 04/02/24 00:00
Date Received: 04/04/24 09:20

Lab Sample ID: 280-189645-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			04/05/24 21:21	1
Ethylene Dibromide	1.0	U	1.0		ug/L			04/05/24 21:21	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			04/05/24 21:21	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			04/05/24 21:21	1
Acrylonitrile	20	U	20		ug/L			04/05/24 21:21	1
Vinyl acetate	3.0	U	3.0		ug/L			04/05/24 21:21	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			04/05/24 21:21	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			04/05/24 21:21	1
Bromobenzene	1.0	U	1.0		ug/L			04/05/24 21:21	1
Methylcyclohexane	1.0	U	1.0		ug/L			04/05/24 21:21	1
Toluene	1.0	U	1.0		ug/L			04/05/24 21:21	1
Chlorobenzene	1.0	U	1.0		ug/L			04/05/24 21:21	1
Tetrahydrofuran	7.0	U	7.0		ug/L			04/05/24 21:21	1
Hexane	2.0	U	2.0		ug/L			04/05/24 21:21	1
Cyclohexane	1.0	U	1.0		ug/L			04/05/24 21:21	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			04/05/24 21:21	1
Chlorodibromomethane	2.0	U	2.0		ug/L			04/05/24 21:21	1
Tetrachloroethene	1.0	U	1.0		ug/L			04/05/24 21:21	1
sec-Butylbenzene	1.0	U	1.0		ug/L			04/05/24 21:21	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			04/05/24 21:21	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/05/24 21:21	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/05/24 21:21	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			04/05/24 21:21	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			04/05/24 21:21	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			04/05/24 21:21	1
Carbon tetrachloride	1.0	U	1.0		ug/L			04/05/24 21:21	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			04/05/24 21:21	1
2-Hexanone	5.0	U	5.0		ug/L			04/05/24 21:21	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			04/05/24 21:21	1
Ethyl ether	2.0	U	2.0		ug/L			04/05/24 21:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/05/24 21:21	1
Acetone	15	U	15		ug/L			04/05/24 21:21	1
Chloroform	1.0	U	1.0		ug/L			04/05/24 21:21	1
Benzene	1.0	U	1.0		ug/L			04/05/24 21:21	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			04/05/24 21:21	1
Bromomethane	5.0	U	5.0		ug/L			04/05/24 21:21	1
Chloromethane	2.0	U	2.0		ug/L			04/05/24 21:21	1
Iodomethane	5.0	U	5.0		ug/L			04/05/24 21:21	1
Dibromomethane	1.0	U	1.0		ug/L			04/05/24 21:21	1
Chlorobromomethane	1.0	U	1.0		ug/L			04/05/24 21:21	1
Chloroethane	4.0	U	4.0		ug/L			04/05/24 21:21	1
Vinyl chloride	2.0	U	2.0		ug/L			04/05/24 21:21	1
Methylene Chloride	2.0	U	2.0		ug/L			04/05/24 21:21	1
Carbon disulfide	2.0	U	2.0		ug/L			04/05/24 21:21	1
Bromoform	2.0	U	2.0		ug/L			04/05/24 21:21	1
Dichlorobromomethane	1.0	U	1.0		ug/L			04/05/24 21:21	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/05/24 21:21	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			04/05/24 21:21	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			04/05/24 21:21	1

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

Client Sample ID: Trip Blank — **Lab Sample ID: 280-189645-16**
Date Collected: 04/02/24 00:00 — **Matrix: Water**
Date Received: 04/04/24 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	3.0	U	3.0		ug/L			04/05/24 21:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			04/05/24 21:21	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			04/05/24 21:21	1
2-Butanone (MEK)	15	U	15		ug/L			04/05/24 21:21	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			04/05/24 21:21	1
Trichloroethene	1.0	U	1.0		ug/L			04/05/24 21:21	1
Methyl acetate	5.0	U	5.0		ug/L			04/05/24 21:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/05/24 21:21	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			04/05/24 21:21	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			04/05/24 21:21	1
Naphthalene	2.0	U	2.0		ug/L			04/05/24 21:21	1
o-Xylene	1.0	U	1.0		ug/L			04/05/24 21:21	1
2-Chlorotoluene	1.0	U	1.0		ug/L			04/05/24 21:21	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			04/05/24 21:21	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			04/05/24 21:21	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			04/05/24 21:21	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			04/05/24 21:21	1
Ethyl methacrylate	3.0	U	3.0		ug/L			04/05/24 21:21	1
tert-Butylbenzene	1.0	U	1.0		ug/L			04/05/24 21:21	1
Isopropylbenzene	1.0	U	1.0		ug/L			04/05/24 21:21	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			04/05/24 21:21	1
Xylenes, Total	1.0	U	1.0		ug/L			04/05/24 21:21	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			04/05/24 21:21	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			04/05/24 21:21	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			04/05/24 21:21	1
Total BTEX	1.0	U	1.0		ug/L			04/05/24 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*04/05/24 21:21*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*04/05/24 21:21*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*04/05/24 21:21*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*04/05/24 21:21*	*1*

General Chemistry

Client Sample ID: POST-SO-SB6-05-04022024 — **Lab Sample ID: 280-189645-1**
Date Collected: 04/02/24 17:30 — **Matrix: Solid**
Date Received: 04/04/24 09:20 — **Percent Solids: 87.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.0**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	**87.0**		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB6-10-04022024 — **Lab Sample ID: 280-189645-2**
Date Collected: 04/02/24 17:50 — **Matrix: Solid**
Date Received: 04/04/24 09:20 — **Percent Solids: 82.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**17.5**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	**82.5**		0.1		%			04/08/24 15:39	1

General Chemistry

Client Sample ID: POST-SO-SB6-15-04022024
Lab Sample ID: 280-189645-3
Date Collected: 04/02/24 18:00
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 84.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**15.6**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	84.4		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB6-20-04022024
Lab Sample ID: 280-189645-4
Date Collected: 04/02/24 18:05
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 87.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**12.9**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	87.1		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB4-05-04032024
Lab Sample ID: 280-189645-5
Date Collected: 04/03/24 12:40
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.4**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	85.6		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB4-10-04032024
Lab Sample ID: 280-189645-6
Date Collected: 04/03/24 12:45
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 80.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.1		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	80.9		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB4-15-04032024
Lab Sample ID: 280-189645-7
Date Collected: 04/03/24 12:50
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 83.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.3		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	83.7		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB4-20-04032024
Lab Sample ID: 280-189645-8
Date Collected: 04/03/24 13:05
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.3**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	85.7		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB4-25-04032024
Lab Sample ID: 280-189645-9
Date Collected: 04/03/24 13:10
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.5**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	85.5		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB4-30-04032024
Lab Sample ID: 280-189645-10
Date Collected: 04/03/24 13:15
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.1**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	**85.9**		0.1		%			04/08/24 15:39	1

General Chemistry

Client Sample ID: POST-SO-SB4-35-04032024
Lab Sample ID: 280-189645-11
Date Collected: 04/03/24 13:20
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 82.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**17.1**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	82.9		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB4-40-04032024
Lab Sample ID: 280-189645-12
Date Collected: 04/03/24 13:25
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.1**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	85.9		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB4-45-04032024
Lab Sample ID: 280-189645-13
Date Collected: 04/03/24 13:30
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**15.7**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	84.3		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB4-50-04032024
Lab Sample ID: 280-189645-14
Date Collected: 04/03/24 13:55
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.9		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	85.1		0.1		%			04/08/24 15:39	1

Client Sample ID: DUP-SO-1-04032024
Lab Sample ID: 280-189645-15
Date Collected: 04/03/24 12:00
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 83.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.8		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	83.2		0.1		%			04/08/24 15:39	1

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189645-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(58-140)	(75-121)	(80-126)	(76-127)
280-189645-1	POST-SO-SB6-05-04022024	103	97	100	107
280-189645-2	POST-SO-SB6-10-04022024	106	98	97	105
280-189645-3	POST-SO-SB6-15-04022024	106	99	99	105
280-189645-4	POST-SO-SB6-20-04022024	104	99	98	103
280-189645-5	POST-SO-SB4-05-04032024	100	96	99	110
280-189645-6	POST-SO-SB4-10-04032024	104	98	99	104
280-189645-7	POST-SO-SB4-15-04032024	103	97	99	104
280-189645-8	POST-SO-SB4-20-04032024	102	97	98	103
280-189645-9	POST-SO-SB4-25-04032024	99	97	98	105
280-189645-10	POST-SO-SB4-30-04032024	105	99	97	104
280-189645-10 MS	POST-SO-SB4-30-04032024	101	98	98	106
280-189645-10 MSD	POST-SO-SB4-30-04032024	100	98	97	104
280-189645-11	POST-SO-SB4-35-04032024	100	97	99	103
280-189645-12	POST-SO-SB4-40-04032024	101	98	97	104
280-189645-13	POST-SO-SB4-45-04032024	99	96	100	106
280-189645-14	POST-SO-SB4-50-04032024	101	97	99	105
280-189645-15	DUP-SO-1-04032024	104	97	98	102
LCS 280-648441/1-A	Lab Control Sample	92	95	102	108
LCSD 280-648441/3-A	Lab Control Sample Dup	96	95	101	107
MB 280-648441/5-A	Method Blank	97	96	102	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-127)	(77-120)	(80-125)	(78-120)
280-189645-16	Trip Blank	98	96	100	100
LCS 280-648518/4	Lab Control Sample	96	99	99	100
LCSD 280-648518/5	Lab Control Sample Dup	96	99	102	102
MB 280-648518/9	Method Blank	95	96	100	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-648441/5-A
Matrix: Solid
Analysis Batch: 649463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Styrene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
N-Propylbenzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
n-Butylbenzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
4-Chlorotoluene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Ethylene Dibromide	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
3-Chloro-1-propene	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Vinyl acetate	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,3,5-Trimethylbenzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Bromobenzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Methylcyclohexane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Toluene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Chlorobenzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Tetrahydrofuran	20	U	20		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Hexane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Cyclohexane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Chlorodibromomethane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Tetrachloroethene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
sec-Butylbenzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,3-Dichloropropane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
cis-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
trans-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Methyl tert-butyl ether	20	U	20		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
m-Xylene & p-Xylene	2.5	U	2.5		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Carbon tetrachloride	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,1-Dichloropropene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
2-Hexanone	20	U	20		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
2,2-Dichloropropane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Ethyl ether	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,1,1,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Acetone	80	U	80		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Chloroform	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Benzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Bromomethane	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Chloromethane	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Iodomethane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Dibromomethane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Chlorobromomethane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Chloroethane	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Vinyl chloride	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1

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

Lab Sample ID: MB 280-648441/5-A
Matrix: Solid
Analysis Batch: 649463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Carbon disulfide	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Bromoform	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Dichlorobromomethane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,1-Dichloroethane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Trichlorofluoromethane	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Dichlorodifluoromethane	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
2-Butanone (MEK)	20	U	20		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Trichloroethene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Methyl acetate	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,2,3-Trichlorobenzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Hexachlorobutadiene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Naphthalene	6.6	U	6.6		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
o-Xylene	2.5	U	2.5		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
2-Chlorotoluene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,2,4-Trimethylbenzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,2,3-Trichloropropane	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Ethyl methacrylate	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
tert-Butylbenzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Isopropylbenzene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
4-Isopropyltoluene	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Xylenes, Total	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,2-Dichloroethene, Total	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
1,3-Dichloropropene, Total	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Trihalomethanes, Total	10	U	10		ug/Kg		04/05/24 10:31	04/14/24 16:16	1
Total BTEX	5.0	U	5.0		ug/Kg		04/05/24 10:31	04/14/24 16:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*58 - 140*	*04/05/24 10:31*	*04/14/24 16:16*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 121*	*04/05/24 10:31*	*04/14/24 16:16*	*1*
Toluene-d8 (Surr)	*102*		*80 - 126*	*04/05/24 10:31*	*04/14/24 16:16*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*04/05/24 10:31*	*04/14/24 16:16*	*1*

Lab Sample ID: LCS 280-648441/1-A
Matrix: Solid
Analysis Batch: 649463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	52.1		ug/Kg		104	73 - 125
Styrene	50.0	53.6		ug/Kg		107	76 - 135
cis-1,3-Dichloropropene	50.0	58.5		ug/Kg		117	71 - 135

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

Lab Sample ID: LCS 280-648441/1-A
Matrix: Solid
Analysis Batch: 649463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	50.0	44.3		ug/Kg		89	71 - 135
N-Propylbenzene	50.0	57.8		ug/Kg		116	67 - 135
n-Butylbenzene	50.0	60.2		ug/Kg		120	68 - 135
4-Chlorotoluene	50.0	55.5		ug/Kg		111	68 - 135
1,4-Dichlorobenzene	50.0	51.0		ug/Kg		102	73 - 135
Ethylene Dibromide	50.0	49.3		ug/Kg		99	76 - 135
3-Chloro-1-propene	50.0	51.7		ug/Kg		103	50 - 150
1,2-Dichloroethane	50.0	45.6		ug/Kg		91	69 - 135
Vinyl acetate	100	99.5		ug/Kg		100	54 - 165
4-Methyl-2-pentanone (MIBK)	200	181		ug/Kg		91	69 - 150
1,3,5-Trimethylbenzene	50.0	58.2		ug/Kg		116	65 - 135
Bromobenzene	50.0	50.9		ug/Kg		102	72 - 135
Methylcyclohexane	50.0	50.2		ug/Kg		100	50 - 150
Toluene	50.0	45.7		ug/Kg		91	77 - 122
Chlorobenzene	50.0	49.6		ug/Kg		99	78 - 135
Tetrahydrofuran	100	85.2		ug/Kg		85	50 - 150
Hexane	50.0	57.3		ug/Kg		115	50 - 150
Cyclohexane	50.0	51.2		ug/Kg		102	50 - 150
1,2,4-Trichlorobenzene	50.0	48.7		ug/Kg		97	65 - 135
Chlorodibromomethane	50.0	53.7		ug/Kg		107	77 - 135
Tetrachloroethene	50.0	49.5		ug/Kg		99	76 - 135
sec-Butylbenzene	50.0	55.4		ug/Kg		111	69 - 135
1,3-Dichloropropane	50.0	50.8		ug/Kg		102	74 - 135
cis-1,2-Dichloroethene	50.0	46.2		ug/Kg		92	76 - 135
trans-1,2-Dichloroethene	50.0	45.9		ug/Kg		92	77 - 135
Methyl tert-butyl ether	50.0	36.7		ug/Kg		73	71 - 141
m-Xylene & p-Xylene	50.0	51.7		ug/Kg		103	77 - 135
1,3-Dichlorobenzene	50.0	52.3		ug/Kg		105	69 - 135
Carbon tetrachloride	50.0	51.6		ug/Kg		103	69 - 138
1,1-Dichloropropene	50.0	48.8		ug/Kg		98	72 - 135
2-Hexanone	200	203		ug/Kg		101	67 - 150
2,2-Dichloropropane	50.0	51.4		ug/Kg		103	69 - 135
Ethyl ether	50.0	45.4		ug/Kg		91	50 - 150
1,1,1,2-Tetrachloroethane	50.0	48.9		ug/Kg		98	76 - 135
Acetone	200	175		ug/Kg		87	65 - 150
Chloroform	50.0	47.1		ug/Kg		94	73 - 123
Benzene	50.0	47.6		ug/Kg		95	75 - 135
1,1,1-Trichloroethane	50.0	48.4		ug/Kg		97	70 - 135
Bromomethane	50.0	44.7		ug/Kg		89	52 - 135
Chloromethane	50.0	39.7		ug/Kg		79	41 - 138
Iodomethane	50.0	46.8		ug/Kg		94	74 - 142
Dibromomethane	50.0	43.6		ug/Kg		87	73 - 135
Chlorobromomethane	50.0	43.3		ug/Kg		87	74 - 135
Chloroethane	50.0	43.1		ug/Kg		86	51 - 145
Vinyl chloride	50.0	43.5		ug/Kg		87	43 - 145
Methylene Chloride	50.0	47.1		ug/Kg		94	76 - 136
Carbon disulfide	50.0	50.6		ug/Kg		101	45 - 150
Bromoform	50.0	43.5		ug/Kg		87	77 - 135
Dichlorobromomethane	50.0	49.8		ug/Kg		100	73 - 135

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

Lab Sample ID: LCS 280-648441/1-A
Matrix: Solid
Analysis Batch: 649463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	50.0	48.9		ug/Kg		98	70 - 135
1,1-Dichloroethene	50.0	50.1		ug/Kg		100	79 - 135
Trichlorofluoromethane	50.0	47.4		ug/Kg		95	48 - 150
Dichlorodifluoromethane	50.0	44.8		ug/Kg		90	32 - 152
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	38.6		ug/Kg		77	50 - 150
1,2-Dichloropropane	50.0	48.8		ug/Kg		98	72 - 121
2-Butanone (MEK)	200	168		ug/Kg		84	45 - 177
1,1,2-Trichloroethane	50.0	43.6		ug/Kg		87	78 - 135
Trichloroethene	50.0	51.9		ug/Kg		104	77 - 135
Methyl acetate	100	92.0		ug/Kg		92	50 - 150
1,1,2,2-Tetrachloroethane	50.0	52.4		ug/Kg		105	65 - 135
1,2,3-Trichlorobenzene	50.0	45.8		ug/Kg		92	62 - 135
Hexachlorobutadiene	50.0	48.6		ug/Kg		97	52 - 151
Naphthalene	50.0	47.7		ug/Kg		95	65 - 135
o-Xylene	50.0	52.8		ug/Kg		106	75 - 135
2-Chlorotoluene	50.0	54.4		ug/Kg		109	67 - 135
1,2-Dichlorobenzene	50.0	49.9		ug/Kg		100	73 - 135
1,2,4-Trimethylbenzene	50.0	57.5		ug/Kg		115	67 - 135
1,2-Dibromo-3-Chloropropane	50.0	43.3		ug/Kg		87	66 - 150
1,2,3-Trichloropropane	50.0	49.3		ug/Kg		99	65 - 135
Ethyl methacrylate	50.0	46.4		ug/Kg		93	50 - 150
tert-Butylbenzene	50.0	56.1		ug/Kg		112	66 - 135
Isopropylbenzene	50.0	58.0		ug/Kg		116	74 - 137
4-Isopropyltoluene	50.0	57.7		ug/Kg		115	66 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*58 - 140*
Dibromofluoromethane (Surr)	*95*		*75 - 121*
Toluene-d8 (Surr)	*102*		*80 - 126*
4-Bromofluorobenzene (Surr)	*108*		*76 - 127*

Lab Sample ID: LCSD 280-648441/3-A
Matrix: Solid
Analysis Batch: 649463

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 648441

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	50.0	53.0		ug/Kg		106	73 - 125	2	20
Styrene	50.0	54.9		ug/Kg		110	76 - 135	2	20
cis-1,3-Dichloropropene	50.0	61.2		ug/Kg		122	71 - 135	5	20
trans-1,3-Dichloropropene	50.0	46.0		ug/Kg		92	71 - 135	4	20
N-Propylbenzene	50.0	56.9		ug/Kg		114	67 - 135	2	22
n-Butylbenzene	50.0	59.9		ug/Kg		120	68 - 135	0	21
4-Chlorotoluene	50.0	55.1		ug/Kg		110	68 - 135	1	20
1,4-Dichlorobenzene	50.0	52.2		ug/Kg		104	73 - 135	2	22
Ethylene Dibromide	50.0	53.1		ug/Kg		106	76 - 135	7	20
3-Chloro-1-propene	50.0	52.4		ug/Kg		105	50 - 150	1	30
1,2-Dichloroethane	50.0	47.3		ug/Kg		95	69 - 135	4	20
Vinyl acetate	100	108		ug/Kg		108	54 - 165	8	27

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

Lab Sample ID: LCSD 280-648441/3-A
Matrix: Solid
Analysis Batch: 649463

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 648441

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	200	210		ug/Kg		105	69 - 150	15	25
1,3,5-Trimethylbenzene	50.0	58.2		ug/Kg		116	65 - 135	0	21
Bromobenzene	50.0	51.5		ug/Kg		103	72 - 135	1	22
Methylcyclohexane	50.0	50.1		ug/Kg		100	50 - 150	0	30
Toluene	50.0	46.2		ug/Kg		92	77 - 122	1	20
Chlorobenzene	50.0	50.7		ug/Kg		101	78 - 135	2	20
Tetrahydrofuran	100	98.5		ug/Kg		99	50 - 150	15	30
Hexane	50.0	56.5		ug/Kg		113	50 - 150	1	35
Cyclohexane	50.0	51.2		ug/Kg		102	50 - 150	0	30
1,2,4-Trichlorobenzene	50.0	50.5		ug/Kg		101	65 - 135	4	26
Chlorodibromomethane	50.0	55.7		ug/Kg		111	77 - 135	4	20
Tetrachloroethene	50.0	50.0		ug/Kg		100	76 - 135	1	20
sec-Butylbenzene	50.0	54.9		ug/Kg		110	69 - 135	1	22
1,3-Dichloropropane	50.0	53.1		ug/Kg		106	74 - 135	4	20
cis-1,2-Dichloroethene	50.0	46.7		ug/Kg		93	76 - 135	1	20
trans-1,2-Dichloroethene	50.0	46.7		ug/Kg		93	77 - 135	2	20
Methyl tert-butyl ether	50.0	40.3		ug/Kg		81	71 - 141	9	20
m-Xylene & p-Xylene	50.0	53.1		ug/Kg		106	77 - 135	3	20
1,3-Dichlorobenzene	50.0	52.7		ug/Kg		105	69 - 135	1	20
Carbon tetrachloride	50.0	53.4		ug/Kg		107	69 - 138	3	20
1,1-Dichloropropene	50.0	49.2		ug/Kg		98	72 - 135	1	20
2-Hexanone	200	238		ug/Kg		119	67 - 150	16	29
2,2-Dichloropropane	50.0	52.7		ug/Kg		105	69 - 135	3	20
Ethyl ether	50.0	47.6		ug/Kg		95	50 - 150	5	20
1,1,1,2-Tetrachloroethane	50.0	50.5		ug/Kg		101	76 - 135	3	20
Acetone	200	207		ug/Kg		103	65 - 150	17	28
Chloroform	50.0	48.0		ug/Kg		96	73 - 123	2	20
Benzene	50.0	48.3		ug/Kg		97	75 - 135	2	20
1,1,1-Trichloroethane	50.0	49.9		ug/Kg		100	70 - 135	3	20
Bromomethane	50.0	46.8		ug/Kg		94	52 - 135	5	22
Chloromethane	50.0	39.5		ug/Kg		79	41 - 138	0	25
Iodomethane	50.0	47.9		ug/Kg		96	74 - 142	2	25
Dibromomethane	50.0	45.9		ug/Kg		92	73 - 135	5	20
Chlorobromomethane	50.0	45.3		ug/Kg		91	74 - 135	4	21
Chloroethane	50.0	43.6		ug/Kg		87	51 - 145	1	22
Vinyl chloride	50.0	44.4		ug/Kg		89	43 - 145	2	24
Methylene Chloride	50.0	48.7		ug/Kg		97	76 - 136	3	21
Carbon disulfide	50.0	49.9		ug/Kg		100	45 - 150	1	24
Bromoform	50.0	47.2		ug/Kg		94	77 - 135	8	20
Dichlorobromomethane	50.0	50.9		ug/Kg		102	73 - 135	2	20
1,1-Dichloroethane	50.0	50.4		ug/Kg		101	70 - 135	3	20
1,1-Dichloroethene	50.0	50.8		ug/Kg		102	79 - 135	1	20
Trichlorofluoromethane	50.0	52.9		ug/Kg		106	48 - 150	11	33
Dichlorodifluoromethane	50.0	45.0		ug/Kg		90	32 - 152	1	28
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	39.0		ug/Kg		78	50 - 150	1	20
1,2-Dichloropropane	50.0	49.9		ug/Kg		100	72 - 121	2	20
2-Butanone (MEK)	200	196		ug/Kg		98	45 - 177	15	32
1,1,2-Trichloroethane	50.0	45.9		ug/Kg		92	78 - 135	5	20

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

Lab Sample ID: LCSD 280-648441/3-A
Matrix: Solid
Analysis Batch: 649463

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 648441

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene	50.0	52.9		ug/Kg		106	77 - 135	2	20
Methyl acetate	100	107		ug/Kg		107	50 - 150	15	30
1,1,2,2-Tetrachloroethane	50.0	56.8		ug/Kg		114	65 - 135	8	21
1,2,3-Trichlorobenzene	50.0	49.5		ug/Kg		99	62 - 135	8	31
Hexachlorobutadiene	50.0	50.0		ug/Kg		100	52 - 151	3	25
Naphthalene	50.0	54.1		ug/Kg		108	65 - 135	13	38
o-Xylene	50.0	53.7		ug/Kg		107	75 - 135	2	20
2-Chlorotoluene	50.0	54.9		ug/Kg		110	67 - 135	1	22
1,2-Dichlorobenzene	50.0	51.3		ug/Kg		103	73 - 135	3	20
1,2,4-Trimethylbenzene	50.0	57.9		ug/Kg		116	67 - 135	1	20
1,2-Dibromo-3-Chloropropane	50.0	49.9		ug/Kg		100	66 - 150	14	28
1,2,3-Trichloropropane	50.0	53.1		ug/Kg		106	65 - 135	8	21
Ethyl methacrylate	50.0	50.8		ug/Kg		102	50 - 150	9	30
tert-Butylbenzene	50.0	56.3		ug/Kg		113	66 - 135	0	22
Isopropylbenzene	50.0	58.5		ug/Kg		117	74 - 137	1	20
4-Isopropyltoluene	50.0	57.8		ug/Kg		116	66 - 135	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*58 - 140*
Dibromofluoromethane (Surr)	*95*		*75 - 121*
Toluene-d8 (Surr)	*101*		*80 - 126*
4-Bromofluorobenzene (Surr)	*107*		*76 - 127*

Lab Sample ID: 280-189645-10 MS
Matrix: Solid
Analysis Batch: 649463

Client Sample ID: POST-SO-SB4-30-04032024
Prep Type: Total/NA
Prep Batch: 648441

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	6.1	U	62.9	53.3		ug/Kg	☼	85	73 - 125
Styrene	6.1	U	62.9	55.5		ug/Kg	☼	88	76 - 135
cis-1,3-Dichloropropene	6.1	U	62.9	60.6		ug/Kg	☼	96	71 - 135
trans-1,3-Dichloropropene	6.1	U	62.9	48.2		ug/Kg	☼	77	71 - 135
N-Propylbenzene	6.1	U	62.9	54.3		ug/Kg	☼	86	67 - 135
n-Butylbenzene	6.1	U	62.9	48.4		ug/Kg	☼	77	68 - 135
4-Chlorotoluene	6.1	U	62.9	52.6		ug/Kg	☼	84	68 - 135
1,4-Dichlorobenzene	6.1	U	62.9	48.9		ug/Kg	☼	78	73 - 135
Ethylene Dibromide	6.1	U	62.9	56.2		ug/Kg	☼	89	76 - 135
3-Chloro-1-propene	12	U	62.9	57.4		ug/Kg	☼	91	50 - 150
1,2-Dichloroethane	6.1	U	62.9	53.8		ug/Kg	☼	86	69 - 135
Vinyl acetate	12	U	126	121		ug/Kg	☼	96	54 - 165
4-Methyl-2-pentanone (MIBK)	24	U	252	226		ug/Kg	☼	90	69 - 150
1,3,5-Trimethylbenzene	6.1	U	62.9	55.3		ug/Kg	☼	88	65 - 135
Bromobenzene	6.1	U	62.9	51.9		ug/Kg	☼	82	72 - 135
Methylcyclohexane	6.1	U	62.9	50.0		ug/Kg	☼	80	50 - 150
Toluene	6.1	U	62.9	50.4		ug/Kg	☼	80	77 - 122
Chlorobenzene	6.1	U	62.9	52.2		ug/Kg	☼	83	78 - 135
Tetrahydrofuran	24	U	126	105		ug/Kg	☼	84	50 - 150
Hexane	6.1	U	62.9	52.6		ug/Kg	☼	84	50 - 150

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

Lab Sample ID: 280-189645-10 MS
Matrix: Solid
Analysis Batch: 649463

Client Sample ID: POST-SO-SB4-30-04032024
Prep Type: Total/NA
Prep Batch: 648441

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyclohexane	6.1	U	62.9	54.8		ug/Kg	☼	87	50 - 150
1,2,4-Trichlorobenzene	6.1	U	62.9	43.5		ug/Kg	☼	69	65 - 135
Chlorodibromomethane	6.1	U	62.9	58.9		ug/Kg	☼	94	77 - 135
Tetrachloroethene	6.1	U F1	62.9	49.4	F1	ug/Kg	☼	75	76 - 135
sec-Butylbenzene	6.1	U	62.9	49.5		ug/Kg	☼	79	69 - 135
1,3-Dichloropropane	6.1	U	62.9	56.4		ug/Kg	☼	90	74 - 135
cis-1,2-Dichloroethene	3.1	U	62.9	52.8		ug/Kg	☼	84	76 - 135
trans-1,2-Dichloroethene	3.1	U	62.9	51.3		ug/Kg	☼	82	77 - 135
Methyl tert-butyl ether	24	U	62.9	45.3		ug/Kg	☼	72	71 - 141
m-Xylene & p-Xylene	3.1	U	62.9	52.5		ug/Kg	☼	83	77 - 135
1,3-Dichlorobenzene	6.1	U	62.9	50.2		ug/Kg	☼	80	69 - 135
Carbon tetrachloride	6.1	U	62.9	55.4		ug/Kg	☼	88	69 - 138
1,1-Dichloropropene	6.1	U	62.9	52.2		ug/Kg	☼	83	72 - 135
2-Hexanone	24	U	252	236		ug/Kg	☼	94	67 - 150
2,2-Dichloropropane	6.1	U	62.9	44.7		ug/Kg	☼	71	69 - 135
Ethyl ether	12	U	62.9	54.4		ug/Kg	☼	86	50 - 150
1,1,1,2-Tetrachloroethane	6.1	U	62.9	52.5		ug/Kg	☼	84	76 - 135
Acetone	98	U	252	249		ug/Kg	☼	99	65 - 150
Chloroform	12	U	62.9	54.1		ug/Kg	☼	86	73 - 123
Benzene	6.1	U	62.9	53.8		ug/Kg	☼	85	75 - 135
1,1,1-Trichloroethane	6.1	U	62.9	53.6		ug/Kg	☼	85	70 - 135
Bromomethane	12	U F1 F2	62.9	29.1	F1	ug/Kg	☼	46	52 - 135
Chloromethane	12	U	62.9	34.3		ug/Kg	☼	55	41 - 138
Iodomethane	6.1	U	62.9	53.9		ug/Kg	☼	86	74 - 142
Dibromomethane	6.1	U	62.9	52.3		ug/Kg	☼	83	73 - 135
Chlorobromomethane	6.1	U	62.9	52.2		ug/Kg	☼	83	74 - 135
Chloroethane	12	U F1	62.9	29.9	F1	ug/Kg	☼	48	51 - 145
Vinyl chloride	6.1	U	62.9	30.6		ug/Kg	☼	49	43 - 145
Methylene Chloride	6.1	U	62.9	54.4		ug/Kg	☼	87	76 - 136
Carbon disulfide	6.1	U	62.9	53.2		ug/Kg	☼	85	45 - 150
Bromoform	6.1	U F1	62.9	47.7	F1	ug/Kg	☼	76	77 - 135
Dichlorobromomethane	6.1	U	62.9	55.9		ug/Kg	☼	89	73 - 135
1,1-Dichloroethane	6.1	U	62.9	56.8		ug/Kg	☼	90	70 - 135
1,1-Dichloroethene	6.1	U	62.9	53.3		ug/Kg	☼	85	79 - 135
Trichlorofluoromethane	12	U F1 F2	62.9	23.6	F1	ug/Kg	☼	38	48 - 150
Dichlorodifluoromethane	12	U F1 F2	62.9	17.2	F1	ug/Kg	☼	27	32 - 152
1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	62.9	39.3		ug/Kg	☼	62	50 - 150
1,2-Dichloropropane	6.1	U	62.9	55.2		ug/Kg	☼	88	72 - 121
2-Butanone (MEK)	24	U	252	210		ug/Kg	☼	84	45 - 177
1,1,2-Trichloroethane	6.1	U	62.9	52.0		ug/Kg	☼	83	78 - 135
Trichloroethene	6.1	U	62.9	53.3		ug/Kg	☼	85	77 - 135
Methyl acetate	12	U	126	117		ug/Kg	☼	93	50 - 150
1,1,2,2-Tetrachloroethane	6.1	U	62.9	59.2		ug/Kg	☼	94	65 - 135
1,2,3-Trichlorobenzene	6.1	U	62.9	42.5		ug/Kg	☼	68	62 - 135
Hexachlorobutadiene	6.1	U F1	62.9	27.7	F1	ug/Kg	☼	44	52 - 151
Naphthalene	8.1	U	62.9	50.8		ug/Kg	☼	81	65 - 135
o-Xylene	3.1	U	62.9	54.9		ug/Kg	☼	87	75 - 135
2-Chlorotoluene	6.1	U	62.9	53.1		ug/Kg	☼	84	67 - 135

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

Lab Sample ID: 280-189645-10 MS | **Client Sample ID: POST-SO-SB4-30-04032024**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 649463 | **Prep Batch: 648441**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	6.1	U	62.9	49.7		ug/Kg	☼	79	73 - 135
1,2,4-Trimethylbenzene	6.1	U	62.9	55.0		ug/Kg	☼	87	67 - 135
1,2-Dibromo-3-Chloropropane	12	U	62.9	49.9		ug/Kg	☼	79	66 - 150
1,2,3-Trichloropropane	6.1	U	62.9	55.4		ug/Kg	☼	88	65 - 135
Ethyl methacrylate	6.1	U	62.9	52.6		ug/Kg	☼	84	50 - 150
tert-Butylbenzene	6.1	U	62.9	53.2		ug/Kg	☼	85	66 - 135
Isopropylbenzene	6.1	U	62.9	56.9		ug/Kg	☼	90	74 - 137
4-Isopropyltoluene	6.1	U	62.9	49.9		ug/Kg	☼	79	66 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*58 - 140*
Dibromofluoromethane (Surr)	*98*		*75 - 121*
Toluene-d8 (Surr)	*98*		*80 - 126*
4-Bromofluorobenzene (Surr)	*106*		*76 - 127*

Lab Sample ID: 280-189645-10 MSD | **Client Sample ID: POST-SO-SB4-30-04032024**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 649463 | **Prep Batch: 648441**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	6.1	U	51.0	47.3		ug/Kg	☼	93	73 - 125	12	20
Styrene	6.1	U	51.0	49.4		ug/Kg	☼	97	76 - 135	12	20
cis-1,3-Dichloropropene	6.1	U	51.0	53.8		ug/Kg	☼	106	71 - 135	12	20
trans-1,3-Dichloropropene	6.1	U	51.0	43.6		ug/Kg	☼	86	71 - 135	10	20
N-Propylbenzene	6.1	U	51.0	48.2		ug/Kg	☼	95	67 - 135	12	22
n-Butylbenzene	6.1	U	51.0	47.0		ug/Kg	☼	92	68 - 135	3	21
4-Chlorotoluene	6.1	U	51.0	47.2		ug/Kg	☼	93	68 - 135	11	20
1,4-Dichlorobenzene	6.1	U	51.0	44.4		ug/Kg	☼	87	73 - 135	10	22
Ethylene Dibromide	6.1	U	51.0	49.3		ug/Kg	☼	97	76 - 135	13	20
3-Chloro-1-propene	12	U	51.0	48.9		ug/Kg	☼	96	50 - 150	16	30
1,2-Dichloroethane	6.1	U	51.0	46.9		ug/Kg	☼	92	69 - 135	14	20
Vinyl acetate	12	U	102	106		ug/Kg	☼	104	54 - 165	13	27
4-Methyl-2-pentanone (MIBK)	24	U	204	196		ug/Kg	☼	96	69 - 150	14	25
1,3,5-Trimethylbenzene	6.1	U	51.0	50.0		ug/Kg	☼	98	65 - 135	10	21
Bromobenzene	6.1	U	51.0	46.5		ug/Kg	☼	91	72 - 135	11	22
Methylcyclohexane	6.1	U	51.0	45.3		ug/Kg	☼	89	50 - 150	10	30
Toluene	6.1	U	51.0	44.2		ug/Kg	☼	87	77 - 122	13	20
Chlorobenzene	6.1	U	51.0	46.0		ug/Kg	☼	90	78 - 135	13	20
Tetrahydrofuran	24	U	102	89.9		ug/Kg	☼	88	50 - 150	16	30
Hexane	6.1	U	51.0	48.4		ug/Kg	☼	95	50 - 150	8	35
Cyclohexane	6.1	U	51.0	48.5		ug/Kg	☼	95	50 - 150	12	30
1,2,4-Trichlorobenzene	6.1	U	51.0	40.2		ug/Kg	☼	79	65 - 135	8	26
Chlorodibromomethane	6.1	U	51.0	52.1		ug/Kg	☼	102	77 - 135	12	20
Tetrachloroethene	6.1	U F1	51.0	44.1		ug/Kg	☼	83	76 - 135	11	20
sec-Butylbenzene	6.1	U	51.0	45.7		ug/Kg	☼	90	69 - 135	8	22
1,3-Dichloropropane	6.1	U	51.0	49.3		ug/Kg	☼	97	74 - 135	13	20
cis-1,2-Dichloroethene	3.1	U	51.0	45.2		ug/Kg	☼	89	76 - 135	15	20
trans-1,2-Dichloroethene	3.1	U	51.0	43.9		ug/Kg	☼	86	77 - 135	16	20

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

Lab Sample ID: 280-189645-10 MSD
Client Sample ID: POST-SO-SB4-30-04032024
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 649463
Prep Batch: 648441

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl tert-butyl ether	24	U	51.0	41.2		ug/Kg	☼	81	71 - 141	9	20
m-Xylene & p-Xylene	3.1	U	51.0	47.5		ug/Kg	☼	93	77 - 135	10	20
1,3-Dichlorobenzene	6.1	U	51.0	44.9		ug/Kg	☼	88	69 - 135	11	20
Carbon tetrachloride	6.1	U	51.0	49.0		ug/Kg	☼	96	69 - 138	12	20
1,1-Dichloropropene	6.1	U	51.0	46.4		ug/Kg	☼	91	72 - 135	12	20
2-Hexanone	24	U	204	206		ug/Kg	☼	101	67 - 150	14	29
2,2-Dichloropropane	6.1	U	51.0	44.0		ug/Kg	☼	86	69 - 135	2	20
Ethyl ether	12	U	51.0	47.2		ug/Kg	☼	93	50 - 150	14	20
1,1,1,2-Tetrachloroethane	6.1	U	51.0	45.7		ug/Kg	☼	90	76 - 135	14	20
Acetone	98	U	204	205		ug/Kg	☼	100	65 - 150	20	28
Chloroform	12	U	51.0	46.1		ug/Kg	☼	90	73 - 123	16	20
Benzene	6.1	U	51.0	46.2		ug/Kg	☼	91	75 - 135	15	20
1,1,1-Trichloroethane	6.1	U	51.0	46.9		ug/Kg	☼	92	70 - 135	13	20
Bromomethane	12	U F1 F2	51.0	37.2	F2	ug/Kg	☼	73	52 - 135	25	22
Chloromethane	12	U	51.0	33.8		ug/Kg	☼	66	41 - 138	2	25
Iodomethane	6.1	U	51.0	46.5		ug/Kg	☼	91	74 - 142	15	25
Dibromomethane	6.1	U	51.0	45.4		ug/Kg	☼	89	73 - 135	14	20
Chlorobromomethane	6.1	U	51.0	43.9		ug/Kg	☼	86	74 - 135	17	21
Chloroethane	12	U F1	51.0	34.6		ug/Kg	☼	68	51 - 145	15	22
Vinyl chloride	6.1	U	51.0	31.1		ug/Kg	☼	61	43 - 145	2	24
Methylene Chloride	6.1	U	51.0	48.6		ug/Kg	☼	95	76 - 136	11	21
Carbon disulfide	6.1	U	51.0	47.6		ug/Kg	☼	93	45 - 150	11	24
Bromoform	6.1	U F1	51.0	42.5		ug/Kg	☼	83	77 - 135	12	20
Dichlorobromomethane	6.1	U	51.0	49.2		ug/Kg	☼	97	73 - 135	13	20
1,1-Dichloroethane	6.1	U	51.0	48.0		ug/Kg	☼	94	70 - 135	17	20
1,1-Dichloroethene	6.1	U	51.0	48.3		ug/Kg	☼	95	79 - 135	10	20
Trichlorofluoromethane	12	U F1 F2	51.0	36.4	F2	ug/Kg	☼	71	48 - 150	43	33
Dichlorodifluoromethane	12	U F1 F2	51.0	25.3	F2	ug/Kg	☼	50	32 - 152	38	28
1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	51.0	41.3		ug/Kg	☼	81	50 - 150	5	20
1,2-Dichloropropane	6.1	U	51.0	48.5		ug/Kg	☼	95	72 - 121	13	20
2-Butanone (MEK)	24	U	204	181		ug/Kg	☼	89	45 - 177	15	32
1,1,2-Trichloroethane	6.1	U	51.0	45.6		ug/Kg	☼	90	78 - 135	13	20
Trichloroethene	6.1	U	51.0	46.8		ug/Kg	☼	92	77 - 135	13	20
Methyl acetate	12	U	102	98.9		ug/Kg	☼	97	50 - 150	16	30
1,1,2,2-Tetrachloroethane	6.1	U	51.0	50.9		ug/Kg	☼	100	65 - 135	15	21
1,2,3-Trichlorobenzene	6.1	U	51.0	40.2		ug/Kg	☼	79	62 - 135	5	31
Hexachlorobutadiene	6.1	U F1	51.0	33.3		ug/Kg	☼	65	52 - 151	18	25
Naphthalene	8.1	U	51.0	45.6		ug/Kg	☼	90	65 - 135	11	38
o-Xylene	3.1	U	51.0	48.7		ug/Kg	☼	96	75 - 135	12	20
2-Chlorotoluene	6.1	U	51.0	46.9		ug/Kg	☼	92	67 - 135	12	22
1,2-Dichlorobenzene	6.1	U	51.0	45.1		ug/Kg	☼	88	73 - 135	10	20
1,2,4-Trimethylbenzene	6.1	U	51.0	48.8		ug/Kg	☼	96	67 - 135	12	20
1,2-Dibromo-3-Chloropropane	12	U	51.0	44.9		ug/Kg	☼	88	66 - 150	11	26
1,2,3-Trichloropropane	6.1	U	51.0	47.7		ug/Kg	☼	94	65 - 135	15	21
Ethyl methacrylate	6.1	U	51.0	47.3		ug/Kg	☼	93	50 - 150	11	30
tert-Butylbenzene	6.1	U	51.0	47.7		ug/Kg	☼	94	66 - 135	11	22
Isopropylbenzene	6.1	U	51.0	50.0		ug/Kg	☼	98	74 - 137	13	20
4-Isopropyltoluene	6.1	U	51.0	47.0		ug/Kg	☼	92	66 - 135	6	20

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*100*		*58 - 140*
Dibromofluoromethane (Surr)	*98*		*75 - 121*
Toluene-d8 (Surr)	*97*		*80 - 126*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*

Lab Sample ID: MB 280-648518/9
Matrix: Water
Analysis Batch: 648518

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			04/05/24 20:35	1
Styrene	1.0	U	1.0		ug/L			04/05/24 20:35	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			04/05/24 20:35	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			04/05/24 20:35	1
N-Propylbenzene	1.0	U	1.0		ug/L			04/05/24 20:35	1
n-Butylbenzene	1.0	U	1.0		ug/L			04/05/24 20:35	1
4-Chlorotoluene	1.0	U	1.0		ug/L			04/05/24 20:35	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			04/05/24 20:35	1
Ethylene Dibromide	1.0	U	1.0		ug/L			04/05/24 20:35	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			04/05/24 20:35	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			04/05/24 20:35	1
Acrylonitrile	20	U	20		ug/L			04/05/24 20:35	1
Vinyl acetate	3.0	U	3.0		ug/L			04/05/24 20:35	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			04/05/24 20:35	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			04/05/24 20:35	1
Bromobenzene	1.0	U	1.0		ug/L			04/05/24 20:35	1
Methylcyclohexane	1.0	U	1.0		ug/L			04/05/24 20:35	1
Toluene	1.0	U	1.0		ug/L			04/05/24 20:35	1
Chlorobenzene	1.0	U	1.0		ug/L			04/05/24 20:35	1
Tetrahydrofuran	7.0	U	7.0		ug/L			04/05/24 20:35	1
Hexane	2.0	U	2.0		ug/L			04/05/24 20:35	1
Cyclohexane	1.0	U	1.0		ug/L			04/05/24 20:35	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			04/05/24 20:35	1
Chlorodibromomethane	2.0	U	2.0		ug/L			04/05/24 20:35	1
Tetrachloroethene	1.0	U	1.0		ug/L			04/05/24 20:35	1
sec-Butylbenzene	1.0	U	1.0		ug/L			04/05/24 20:35	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			04/05/24 20:35	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/05/24 20:35	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/05/24 20:35	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			04/05/24 20:35	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			04/05/24 20:35	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			04/05/24 20:35	1
Carbon tetrachloride	1.0	U	1.0		ug/L			04/05/24 20:35	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			04/05/24 20:35	1
2-Hexanone	5.0	U	5.0		ug/L			04/05/24 20:35	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			04/05/24 20:35	1
Ethyl ether	2.0	U	2.0		ug/L			04/05/24 20:35	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/05/24 20:35	1
Acetone	15	U	15		ug/L			04/05/24 20:35	1
Chloroform	1.0	U	1.0		ug/L			04/05/24 20:35	1
Benzene	1.0	U	1.0		ug/L			04/05/24 20:35	1

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

Lab Sample ID: MB 280-648518/9
Matrix: Water
Analysis Batch: 648518

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			04/05/24 20:35	1
Bromomethane	5.0	U	5.0		ug/L			04/05/24 20:35	1
Chloromethane	2.0	U	2.0		ug/L			04/05/24 20:35	1
Iodomethane	5.0	U	5.0		ug/L			04/05/24 20:35	1
Dibromomethane	1.0	U	1.0		ug/L			04/05/24 20:35	1
Chlorobromomethane	1.0	U	1.0		ug/L			04/05/24 20:35	1
Chloroethane	4.0	U	4.0		ug/L			04/05/24 20:35	1
Vinyl chloride	2.0	U	2.0		ug/L			04/05/24 20:35	1
Methylene Chloride	2.0	U	2.0		ug/L			04/05/24 20:35	1
Carbon disulfide	2.0	U	2.0		ug/L			04/05/24 20:35	1
Bromoform	2.0	U	2.0		ug/L			04/05/24 20:35	1
Dichlorobromomethane	1.0	U	1.0		ug/L			04/05/24 20:35	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/05/24 20:35	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			04/05/24 20:35	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			04/05/24 20:35	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			04/05/24 20:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			04/05/24 20:35	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			04/05/24 20:35	1
2-Butanone (MEK)	15	U	15		ug/L			04/05/24 20:35	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			04/05/24 20:35	1
Trichloroethene	1.0	U	1.0		ug/L			04/05/24 20:35	1
Methyl acetate	5.0	U	5.0		ug/L			04/05/24 20:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/05/24 20:35	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			04/05/24 20:35	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			04/05/24 20:35	1
Naphthalene	2.0	U	2.0		ug/L			04/05/24 20:35	1
o-Xylene	1.0	U	1.0		ug/L			04/05/24 20:35	1
2-Chlorotoluene	1.0	U	1.0		ug/L			04/05/24 20:35	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			04/05/24 20:35	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			04/05/24 20:35	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			04/05/24 20:35	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			04/05/24 20:35	1
Ethyl methacrylate	3.0	U	3.0		ug/L			04/05/24 20:35	1
tert-Butylbenzene	1.0	U	1.0		ug/L			04/05/24 20:35	1
Isopropylbenzene	1.0	U	1.0		ug/L			04/05/24 20:35	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			04/05/24 20:35	1
Xylenes, Total	1.0	U	1.0		ug/L			04/05/24 20:35	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			04/05/24 20:35	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			04/05/24 20:35	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			04/05/24 20:35	1
Total BTEX	1.0	U	1.0		ug/L			04/05/24 20:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*		*04/05/24 20:35*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*04/05/24 20:35*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*04/05/24 20:35*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*04/05/24 20:35*	*1*

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

Lab Sample ID: LCS 280-648518/4
Matrix: Water
Analysis Batch: 648518

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	53.3		ug/L		107	76 - 121
Styrene	50.0	52.5		ug/L		105	79 - 120
cis-1,3-Dichloropropene	50.0	55.8		ug/L		112	75 - 120
trans-1,3-Dichloropropene	50.0	51.3		ug/L		103	66 - 127
N-Propylbenzene	50.0	53.7		ug/L		107	73 - 127
n-Butylbenzene	50.0	54.6		ug/L		109	69 - 130
4-Chlorotoluene	50.0	52.4		ug/L		105	74 - 124
1,4-Dichlorobenzene	50.0	49.6		ug/L		99	76 - 119
Ethylene Dibromide	50.0	53.0		ug/L		106	81 - 118
3-Chloro-1-propene	50.0	53.0		ug/L		106	57 - 136
1,2-Dichloroethane	50.0	48.7		ug/L		97	61 - 130
Acrylonitrile	500	488		ug/L		98	65 - 133
Vinyl acetate	100	109		ug/L		109	61 - 139
4-Methyl-2-pentanone (MIBK)	200	192		ug/L		96	56 - 135
1,3,5-Trimethylbenzene	50.0	53.9		ug/L		108	73 - 127
Bromobenzene	50.0	50.5		ug/L		101	75 - 122
Methylcyclohexane	50.0	56.2		ug/L		112	58 - 136
Toluene	50.0	52.2		ug/L		104	68 - 127
Chlorobenzene	50.0	51.1		ug/L		102	78 - 118
Tetrahydrofuran	100	95.9		ug/L		96	50 - 139
Hexane	50.0	58.2		ug/L		116	52 - 139
Cyclohexane	50.0	56.3		ug/L		113	57 - 134
1,2,4-Trichlorobenzene	50.0	53.0		ug/L		106	73 - 124
Chlorodibromomethane	50.0	54.0		ug/L		108	71 - 122
Tetrachloroethene	50.0	54.1		ug/L		108	72 - 127
sec-Butylbenzene	50.0	56.6		ug/L		113	72 - 127
1,3-Dichloropropane	50.0	50.5		ug/L		101	80 - 118
cis-1,2-Dichloroethene	50.0	53.2		ug/L		106	69 - 126
trans-1,2-Dichloroethene	50.0	53.0		ug/L		106	66 - 129
Methyl tert-butyl ether	50.0	52.6		ug/L		105	70 - 127
m-Xylene & p-Xylene	50.0	53.9		ug/L		108	76 - 122
1,3-Dichlorobenzene	50.0	51.8		ug/L		104	76 - 121
Carbon tetrachloride	50.0	56.2		ug/L		112	60 - 133
1,1-Dichloropropene	50.0	54.3		ug/L		109	64 - 133
2-Hexanone	200	189		ug/L		94	58 - 134
2,2-Dichloropropane	50.0	56.1		ug/L		112	57 - 140
Ethyl ether	50.0	51.8		ug/L		104	66 - 129
1,1,1,2-Tetrachloroethane	50.0	53.7		ug/L		107	74 - 121
Acetone	200	190		ug/L		95	50 - 137
Chloroform	50.0	52.9		ug/L		106	68 - 128
Benzene	50.0	54.3		ug/L		109	69 - 126
1,1,1-Trichloroethane	50.0	54.6		ug/L		109	62 - 132
Bromomethane	50.0	49.3		ug/L		99	25 - 163
Chloromethane	50.0	54.2		ug/L		108	43 - 142
Iodomethane	50.0	49.4		ug/L		99	37 - 145
Dibromomethane	50.0	50.0		ug/L		100	68 - 129
Chlorobromomethane	50.0	50.7		ug/L		101	71 - 130
Chloroethane	50.0	55.4		ug/L		111	52 - 144

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

Lab Sample ID: LCS 280-648518/4
Matrix: Water
Analysis Batch: 648518

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	50.0	54.2		ug/L		108	53 - 141
Methylene Chloride	50.0	49.5		ug/L		99	64 - 128
Carbon disulfide	50.0	56.8		ug/L		114	56 - 128
Bromoform	50.0	53.1		ug/L		106	57 - 125
Dichlorobromomethane	50.0	55.6		ug/L		111	67 - 126
1,1-Dichloroethane	50.0	53.8		ug/L		108	66 - 130
1,1-Dichloroethene	50.0	54.7		ug/L		109	62 - 130
Trichlorofluoromethane	50.0	59.0		ug/L		118	57 - 144
Dichlorodifluoromethane	50.0	57.5		ug/L		115	26 - 152
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.1		ug/L		116	60 - 137
1,2-Dichloropropane	50.0	54.5		ug/L		109	68 - 127
2-Butanone (MEK)	200	185		ug/L		92	53 - 135
1,1,2-Trichloroethane	50.0	48.7		ug/L		97	72 - 128
Trichloroethene	50.0	52.1		ug/L		104	70 - 125
Methyl acetate	100	97.3		ug/L		97	59 - 133
1,1,2,2-Tetrachloroethane	50.0	48.7		ug/L		97	72 - 122
1,2,3-Trichlorobenzene	50.0	50.1		ug/L		100	70 - 127
Hexachlorobutadiene	50.0	56.3		ug/L		113	69 - 133
Naphthalene	50.0	47.1		ug/L		94	63 - 129
o-Xylene	50.0	52.5		ug/L		105	77 - 120
2-Chlorotoluene	50.0	50.3		ug/L		101	75 - 123
1,2-Dichlorobenzene	50.0	51.1		ug/L		102	77 - 121
1,2,4-Trimethylbenzene	50.0	54.4		ug/L		109	74 - 124
1,2-Dibromo-3-Chloropropane	50.0	49.4		ug/L		99	58 - 122
1,2,3-Trichloropropane	50.0	49.5		ug/L		99	74 - 123
Ethyl methacrylate	50.0	50.5		ug/L		101	69 - 126
tert-Butylbenzene	50.0	54.8		ug/L		110	72 - 126
Isopropylbenzene	50.0	54.3		ug/L		109	70 - 127
4-Isopropyltoluene	50.0	54.1		ug/L		108	74 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
Dibromofluoromethane (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*

Lab Sample ID: LCSD 280-648518/5
Matrix: Water
Analysis Batch: 648518

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
Ethylbenzene	50.0	56.2		ug/L		112	76 - 121	5	20
Styrene	50.0	55.9		ug/L		112	79 - 120	6	20
cis-1,3-Dichloropropene	50.0	58.3		ug/L		117	75 - 120	4	20
trans-1,3-Dichloropropene	50.0	53.1		ug/L		106	66 - 127	4	20
N-Propylbenzene	50.0	58.0		ug/L		116	73 - 127	8	20
n-Butylbenzene	50.0	57.4		ug/L		115	69 - 130	5	20
4-Chlorotoluene	50.0	56.0		ug/L		112	74 - 124	7	20

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

Lab Sample ID: LCSD 280-648518/5
Matrix: Water
Analysis Batch: 648518

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
1,4-Dichlorobenzene	50.0	53.2		ug/L		106	76 - 119	7	20
Ethylene Dibromide	50.0	55.5		ug/L		111	81 - 118	5	20
3-Chloro-1-propene	50.0	53.4		ug/L		107	57 - 136	1	20
1,2-Dichloroethane	50.0	50.5		ug/L		101	61 - 130	4	20
Acrylonitrile	500	506		ug/L		101	65 - 133	4	20
Vinyl acetate	100	108		ug/L		108	61 - 139	1	23
4-Methyl-2-pentanone (MIBK)	200	197		ug/L		98	56 - 135	3	20
1,3,5-Trimethylbenzene	50.0	57.1		ug/L		114	73 - 127	6	20
Bromobenzene	50.0	53.0		ug/L		106	75 - 122	5	20
Methylcyclohexane	50.0	58.8		ug/L		118	58 - 136	5	21
Toluene	50.0	53.5		ug/L		107	68 - 127	2	20
Chlorobenzene	50.0	53.8		ug/L		108	78 - 118	5	20
Tetrahydrofuran	100	95.8		ug/L		96	50 - 139	0	20
Hexane	50.0	59.6		ug/L		119	52 - 139	2	23
Cyclohexane	50.0	58.2		ug/L		116	57 - 134	3	32
1,2,4-Trichlorobenzene	50.0	55.5		ug/L		111	73 - 124	5	20
Chlorodibromomethane	50.0	57.0		ug/L		114	71 - 122	5	20
Tetrachloroethene	50.0	58.0		ug/L		116	72 - 127	7	20
sec-Butylbenzene	50.0	59.7		ug/L		119	72 - 127	5	20
1,3-Dichloropropane	50.0	52.7		ug/L		105	80 - 118	4	20
cis-1,2-Dichloroethene	50.0	55.2		ug/L		110	69 - 126	4	20
trans-1,2-Dichloroethene	50.0	53.9		ug/L		108	66 - 129	2	20
Methyl tert-butyl ether	50.0	54.1		ug/L		108	70 - 127	3	20
m-Xylene & p-Xylene	50.0	56.7		ug/L		113	76 - 122	5	20
1,3-Dichlorobenzene	50.0	54.2		ug/L		108	76 - 121	4	20
Carbon tetrachloride	50.0	59.8		ug/L		120	60 - 133	6	20
1,1-Dichloropropene	50.0	57.4		ug/L		115	64 - 133	6	20
2-Hexanone	200	197		ug/L		99	58 - 134	4	21
2,2-Dichloropropane	50.0	56.9		ug/L		114	57 - 140	1	22
Ethyl ether	50.0	54.7		ug/L		109	66 - 129	5	20
1,1,1,2-Tetrachloroethane	50.0	57.1		ug/L		114	74 - 121	6	20
Acetone	200	195		ug/L		98	50 - 137	3	21
Chloroform	50.0	55.2		ug/L		110	68 - 128	4	20
Benzene	50.0	56.1		ug/L		112	69 - 126	3	20
1,1,1-Trichloroethane	50.0	57.1		ug/L		114	62 - 132	4	20
Bromomethane	50.0	51.3		ug/L		103	25 - 163	4	40
Chloromethane	50.0	56.9		ug/L		114	43 - 142	5	20
Iodomethane	50.0	49.1		ug/L		98	37 - 145	1	38
Dibromomethane	50.0	52.9		ug/L		106	68 - 129	6	20
Chlorobromomethane	50.0	52.7		ug/L		105	71 - 130	4	20
Chloroethane	50.0	57.2		ug/L		114	52 - 144	3	30
Vinyl chloride	50.0	56.8		ug/L		114	53 - 141	5	25
Methylene Chloride	50.0	50.8		ug/L		102	64 - 128	3	20
Carbon disulfide	50.0	58.1		ug/L		116	56 - 128	2	20
Bromoform	50.0	55.7		ug/L		111	57 - 125	5	20
Dichlorobromomethane	50.0	57.8		ug/L		116	67 - 126	4	20
1,1-Dichloroethane	50.0	55.4		ug/L		111	66 - 130	3	20
1,1-Dichloroethene	50.0	57.0		ug/L		114	62 - 130	4	21
Trichlorofluoromethane	50.0	60.1		ug/L		120	57 - 144	2	28

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

Lab Sample ID: LCSD 280-648518/5
Matrix: Water
Analysis Batch: 648518

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
Dichlorodifluoromethane	50.0	62.6		ug/L		125	26 - 152	9	21
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	59.5		ug/L		119	60 - 137	2	23
1,2-Dichloropropane	50.0	55.6		ug/L		111	68 - 127	2	20
2-Butanone (MEK)	200	190		ug/L		95	53 - 135	3	20
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	72 - 128	6	20
Trichloroethene	50.0	55.8		ug/L		112	70 - 125	7	20
Methyl acetate	100	97.7		ug/L		98	59 - 133	0	20
1,1,2,2-Tetrachloroethane	50.0	51.6		ug/L		103	72 - 122	6	20
1,2,3-Trichlorobenzene	50.0	52.4		ug/L		105	70 - 127	4	20
Hexachlorobutadiene	50.0	57.8		ug/L		116	69 - 133	3	20
Naphthalene	50.0	50.4		ug/L		101	63 - 129	7	21
o-Xylene	50.0	55.9		ug/L		112	77 - 120	6	20
2-Chlorotoluene	50.0	54.0		ug/L		108	75 - 123	7	20
1,2-Dichlorobenzene	50.0	54.2		ug/L		108	77 - 121	6	20
1,2,4-Trimethylbenzene	50.0	57.4		ug/L		115	74 - 124	5	20
1,2-Dibromo-3-Chloropropane	50.0	51.9		ug/L		104	58 - 122	5	21
1,2,3-Trichloropropane	50.0	52.9		ug/L		106	74 - 123	7	20
Ethyl methacrylate	50.0	53.9		ug/L		108	69 - 126	7	20
tert-Butylbenzene	50.0	58.2		ug/L		116	72 - 126	6	20
Isopropylbenzene	50.0	57.3		ug/L		115	70 - 127	5	20
4-Isopropyltoluene	50.0	58.2		ug/L		116	74 - 127	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
Dibromofluoromethane (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 125*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*

GC/MS VOA

Prep Batch: 648441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189645-1	POST-SO-SB6-05-04022024	Total/NA	Solid	5035	
280-189645-2	POST-SO-SB6-10-04022024	Total/NA	Solid	5035	
280-189645-3	POST-SO-SB6-15-04022024	Total/NA	Solid	5035	
280-189645-4	POST-SO-SB6-20-04022024	Total/NA	Solid	5035	
280-189645-5	POST-SO-SB4-05-04032024	Total/NA	Solid	5035	
280-189645-6	POST-SO-SB4-10-04032024	Total/NA	Solid	5035	
280-189645-7	POST-SO-SB4-15-04032024	Total/NA	Solid	5035	
280-189645-8	POST-SO-SB4-20-04032024	Total/NA	Solid	5035	
280-189645-9	POST-SO-SB4-25-04032024	Total/NA	Solid	5035	
280-189645-10	POST-SO-SB4-30-04032024	Total/NA	Solid	5035	
280-189645-11	POST-SO-SB4-35-04032024	Total/NA	Solid	5035	
280-189645-12	POST-SO-SB4-40-04032024	Total/NA	Solid	5035	
280-189645-13	POST-SO-SB4-45-04032024	Total/NA	Solid	5035	
280-189645-14	POST-SO-SB4-50-04032024	Total/NA	Solid	5035	
280-189645-15	DUP-SO-1-04032024	Total/NA	Solid	5035	
MB 280-648441/5-A	Method Blank	Total/NA	Solid	5035	
LCS 280-648441/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-648441/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
280-189645-10 MS	POST-SO-SB4-30-04032024	Total/NA	Solid	5035	
280-189645-10 MSD	POST-SO-SB4-30-04032024	Total/NA	Solid	5035	

Analysis Batch: 648518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189645-16	Trip Blank	Total/NA	Water	8260D	
MB 280-648518/9	Method Blank	Total/NA	Water	8260D	
LCS 280-648518/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-648518/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 649463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189645-1	POST-SO-SB6-05-04022024	Total/NA	Solid	8260D	648441
280-189645-2	POST-SO-SB6-10-04022024	Total/NA	Solid	8260D	648441
280-189645-3	POST-SO-SB6-15-04022024	Total/NA	Solid	8260D	648441
280-189645-4	POST-SO-SB6-20-04022024	Total/NA	Solid	8260D	648441
280-189645-5	POST-SO-SB4-05-04032024	Total/NA	Solid	8260D	648441
280-189645-6	POST-SO-SB4-10-04032024	Total/NA	Solid	8260D	648441
280-189645-7	POST-SO-SB4-15-04032024	Total/NA	Solid	8260D	648441
280-189645-8	POST-SO-SB4-20-04032024	Total/NA	Solid	8260D	648441
280-189645-9	POST-SO-SB4-25-04032024	Total/NA	Solid	8260D	648441
280-189645-10	POST-SO-SB4-30-04032024	Total/NA	Solid	8260D	648441
280-189645-11	POST-SO-SB4-35-04032024	Total/NA	Solid	8260D	648441
280-189645-12	POST-SO-SB4-40-04032024	Total/NA	Solid	8260D	648441
280-189645-13	POST-SO-SB4-45-04032024	Total/NA	Solid	8260D	648441
280-189645-15	DUP-SO-1-04032024	Total/NA	Solid	8260D	648441
MB 280-648441/5-A	Method Blank	Total/NA	Solid	8260D	648441
LCS 280-648441/1-A	Lab Control Sample	Total/NA	Solid	8260D	648441
LCSD 280-648441/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	648441
280-189645-10 MS	POST-SO-SB4-30-04032024	Total/NA	Solid	8260D	648441
280-189645-10 MSD	POST-SO-SB4-30-04032024	Total/NA	Solid	8260D	648441

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189645-1

GC/MS VOA

Analysis Batch: 649668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189645-14	POST-SO-SB4-50-04032024	Total/NA	Solid	8260D	648441

General Chemistry

Analysis Batch: 648680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189645-1	POST-SO-SB6-05-04022024	Total/NA	Solid	Moisture	
280-189645-2	POST-SO-SB6-10-04022024	Total/NA	Solid	Moisture	
280-189645-3	POST-SO-SB6-15-04022024	Total/NA	Solid	Moisture	
280-189645-4	POST-SO-SB6-20-04022024	Total/NA	Solid	Moisture	
280-189645-5	POST-SO-SB4-05-04032024	Total/NA	Solid	Moisture	
280-189645-6	POST-SO-SB4-10-04032024	Total/NA	Solid	Moisture	
280-189645-7	POST-SO-SB4-15-04032024	Total/NA	Solid	Moisture	
280-189645-8	POST-SO-SB4-20-04032024	Total/NA	Solid	Moisture	
280-189645-9	POST-SO-SB4-25-04032024	Total/NA	Solid	Moisture	
280-189645-10	POST-SO-SB4-30-04032024	Total/NA	Solid	Moisture	
280-189645-11	POST-SO-SB4-35-04032024	Total/NA	Solid	Moisture	
280-189645-12	POST-SO-SB4-40-04032024	Total/NA	Solid	Moisture	
280-189645-13	POST-SO-SB4-45-04032024	Total/NA	Solid	Moisture	
280-189645-14	POST-SO-SB4-50-04032024	Total/NA	Solid	Moisture	
280-189645-15	DUP-SO-1-04032024	Total/NA	Solid	Moisture	

Client Sample ID: POST-SO-SB6-05-04022024
Lab Sample ID: 280-189645-1

Date Collected: 04/02/24 17:30
Matrix: Solid
Date Received: 04/04/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB6-05-04022024
Lab Sample ID: 280-189645-1

Date Collected: 04/02/24 17:30
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.038 g	5 mL	648441	04/05/24 10:31	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649463	04/14/24 16:36	GO	EET DEN

Client Sample ID: POST-SO-SB6-10-04022024
Lab Sample ID: 280-189645-2

Date Collected: 04/02/24 17:50
Matrix: Solid
Date Received: 04/04/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB6-10-04022024
Lab Sample ID: 280-189645-2

Date Collected: 04/02/24 17:50
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.567 g	5 mL	648441	04/05/24 10:31	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649463	04/14/24 16:56	GO	EET DEN

Client Sample ID: POST-SO-SB6-15-04022024
Lab Sample ID: 280-189645-3

Date Collected: 04/02/24 18:00
Matrix: Solid
Date Received: 04/04/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB6-15-04022024
Lab Sample ID: 280-189645-3

Date Collected: 04/02/24 18:00
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.041 g	5 mL	648441	04/05/24 10:31	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649463	04/14/24 17:16	GO	EET DEN

Client Sample ID: POST-SO-SB6-20-04022024
Lab Sample ID: 280-189645-4

Date Collected: 04/02/24 18:05
Matrix: Solid
Date Received: 04/04/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB6-20-04022024

Lab Sample ID: 280-189645-4

Date Collected: 04/02/24 18:05
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.020 g	5 mL	648441	04/05/24 10:31	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649463	04/14/24 17:36	GO	EET DEN

Client Sample ID: POST-SO-SB4-05-04032024

Lab Sample ID: 280-189645-5

Date Collected: 04/03/24 12:40
Matrix: Solid
Date Received: 04/04/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB4-05-04032024

Lab Sample ID: 280-189645-5

Date Collected: 04/03/24 12:40
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.950 g	5 mL	648441	04/05/24 10:31	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649463	04/14/24 17:56	GO	EET DEN

Client Sample ID: POST-SO-SB4-10-04032024

Lab Sample ID: 280-189645-6

Date Collected: 04/03/24 12:45
Matrix: Solid
Date Received: 04/04/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB4-10-04032024

Lab Sample ID: 280-189645-6

Date Collected: 04/03/24 12:45
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.321 g	5 mL	648441	04/05/24 10:31	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649463	04/14/24 18:16	GO	EET DEN

Client Sample ID: POST-SO-SB4-15-04032024

Lab Sample ID: 280-189645-7

Date Collected: 04/03/24 12:50
Matrix: Solid
Date Received: 04/04/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB4-15-04032024

Lab Sample ID: 280-189645-7

Date Collected: 04/03/24 12:50
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.730 g	5 mL	648441	04/05/24 10:31	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649463	04/14/24 18:35	GO	EET DEN

Client Sample ID: POST-SO-SB4-20-04032024

Lab Sample ID: 280-189645-8

Date Collected: 04/03/24 13:05
Matrix: Solid
Date Received: 04/04/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB4-20-04032024

Lab Sample ID: 280-189645-8

Date Collected: 04/03/24 13:05
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.547 g	5 mL	648441	04/05/24 10:31	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649463	04/14/24 18:55	GO	EET DEN

Client Sample ID: POST-SO-SB4-25-04032024

Lab Sample ID: 280-189645-9

Date Collected: 04/03/24 13:10
Matrix: Solid
Date Received: 04/04/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB4-25-04032024

Lab Sample ID: 280-189645-9

Date Collected: 04/03/24 13:10
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.542 g	5 mL	648441	04/05/24 10:31	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649463	04/14/24 19:14	GO	EET DEN

Client Sample ID: POST-SO-SB4-30-04032024

Lab Sample ID: 280-189645-10

Date Collected: 04/03/24 13:15
Matrix: Solid
Date Received: 04/04/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB4-30-04032024

Lab Sample ID: 280-189645-10

Date Collected: 04/03/24 13:15

Matrix: Solid

Date Received: 04/04/24 09:20

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.769 g	5 mL	648441	04/05/24 10:31	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649463	04/14/24 19:34	GO	EET DEN

Client Sample ID: POST-SO-SB4-35-04032024

Lab Sample ID: 280-189645-11

Date Collected: 04/03/24 13:20

Matrix: Solid

Date Received: 04/04/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB4-35-04032024

Lab Sample ID: 280-189645-11

Date Collected: 04/03/24 13:20

Matrix: Solid

Date Received: 04/04/24 09:20

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.674 g	5 mL	648441	04/05/24 10:31	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649463	04/14/24 19:54	GO	EET DEN

Client Sample ID: POST-SO-SB4-40-04032024

Lab Sample ID: 280-189645-12

Date Collected: 04/03/24 13:25

Matrix: Solid

Date Received: 04/04/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB4-40-04032024

Lab Sample ID: 280-189645-12

Date Collected: 04/03/24 13:25

Matrix: Solid

Date Received: 04/04/24 09:20

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.690 g	5 mL	648441	04/05/24 10:31	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649463	04/14/24 20:14	GO	EET DEN

Client Sample ID: POST-SO-SB4-45-04032024

Lab Sample ID: 280-189645-13

Date Collected: 04/03/24 13:30

Matrix: Solid

Date Received: 04/04/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB4-45-04032024

Lab Sample ID: 280-189645-13

Date Collected: 04/03/24 13:30
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.557 g	5 mL	648441	04/05/24 10:31	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649463	04/14/24 20:33	GO	EET DEN

Client Sample ID: POST-SO-SB4-50-04032024

Lab Sample ID: 280-189645-14

Date Collected: 04/03/24 13:55
Matrix: Solid
Date Received: 04/04/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB4-50-04032024

Lab Sample ID: 280-189645-14

Date Collected: 04/03/24 13:55
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.140 g	5 mL	648441	04/05/24 10:31	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649668	04/16/24 13:23	JLS	EET DEN

Client Sample ID: DUP-SO-1-04032024

Lab Sample ID: 280-189645-15

Date Collected: 04/03/24 12:00
Matrix: Solid
Date Received: 04/04/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: DUP-SO-1-04032024

Lab Sample ID: 280-189645-15

Date Collected: 04/03/24 12:00
Matrix: Solid
Date Received: 04/04/24 09:20
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.075 g	5 mL	648441	04/05/24 10:31	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649463	04/14/24 21:13	GO	EET DEN

Client Sample ID: Trip Blank

Lab Sample ID: 280-189645-16

Date Collected: 04/02/24 00:00
Matrix: Water
Date Received: 04/04/24 09:20

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	648518	04/05/24 21:21	BMJ	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Job ID: 280-189645-1
Project/Site: ABC Cleaners, NC

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-24
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-07	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
North Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Grant Reeder	Lab PM: Norton, Michael R	Carrier Tracking No(s):	COC No: 280-138461-37980.1
Client Contact: Sanita Corum	Phone: 603-856-6124	E-Mail: Michael.Norton@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 2
Company: EA Engineering, Science, and Technology	PWSID:			Job #:
Address: 225 Schilling Circle Suite 400	Due Date Requested: 4/16/2024			
City: Hunt Valley	TAT Requested (days): 5			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-771-4950(Tel)	PO #: 24987			
Email: scorum@eaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024263			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

280-189645 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - TCLP VOAS (TCLP subset)	Moisture - Percent Moisture	Total Number of containers	Special Instructions/Note:
		Preservation Code:			N		N	N		
POST-SO-SB6-05-0402 2024	04/01/24	1730	G	Solid	N	N	X	X		
POST-SO-SB6-10-0402 2024		1750		Solid						
POST-SO-SB6-15-0402 2024		1800		Solid						
POST-SO-SB6-20-0402 2024		1805		Solid						
POST-SO-SB4-05-0403 2024	04/03/24	1240		Solid						PID = 22.5 ppm, organic odor
POST-SO-SB4-10-0403 2024		1245		Solid						
POST-SO-SB4-15-0403 2024		1260		Solid						
POST-SO-SB4-20-0403 2024		1305		Solid						
POST-SO-SB4-25-0403 2024		1310		Solid						
POST-SO-SB4-30-0403 2024		1315		Solid	Y					split w/ MS/MSD
POST-SO-SB4-35-0403 2024		1320		Solid	N					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, (IV) Other (specify) with EDDs as requested by EA - Terratherm

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	04/03/24 1430		[signature]	4/4/24 9:20	GEL ORN
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0 0.5 IR W CF 0.1

Ver: 06/08/2021

4/18/2024

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Grant Rueda	Lab PM: Norton, Michael R	Carrier Tracking No(s):	COC No: 280-138461-37980.1
Client Contact: Sanita Corum	Phone: 603-056-6124	E-Mail: Michael.Norton@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 2
Company: EA Engineering, Science, and Technology	PWSID:			Job #:
Address: 225 Schilling Circle Suite 400	Due Date Requested: 4/10/2024			
City: Hunt Valley	TAT Requested (days): 5			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-771-4950(Tel)	PO #: 24987			
Email: scorum@eaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024263			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260D - TCLP VOAS (TCLP sublist)	Moisture - Percent Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	N		
POST-SO-SB4-40-04032024	04/03/24	1325	G	Solid	N	X	X		
POST-SO-SB4-45-04032024		1330		Solid					
POST-SO-SB4-50-04032024		1335		Solid					
DUP-SO-1-04032024		1200		Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, (IV) Other (specify) with EDDs as requested by EA + TestAmerica

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	04/03/24 1430		[signature]	4/4/24 9:20	ESP DEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

4/18/2024

280-189645 Waybill

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 280-189645-1

Login Number: 189645
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Sanita Corum
EA Engineering, Science, and Technology
225 Schilling Circle
Suite 400
Hunt Valley, Maryland 21031

Generated 4/19/2024 8:15:32 AM

JOB DESCRIPTION

ABC Cleaners, NC

JOB NUMBER

280-189690-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

myEOL

Eurofins Denver

Job Notes

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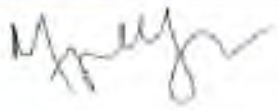
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed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

Authorization



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4/19/2024 8:15:32 AM

Authorized for release by
Megan McElheny, Project Manager I
Megan.Mcelheny@et.eurofinsus.com
(303)736-0100

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-189690-1 — Eurofins Denver

Job Narrative
280-189690-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/5/2024 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

Receipt Exceptions
The sample collection time was not recorded on the sample containers received. Logged per the COC.

DUP-SO-2-04032024 (280-189690-6), DUP-SO-1-04042024 (280-189690-13) and DUP-SO-2-04042024 (280-189690-28)

GC/MS VOA
Method 8260D: The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 280-649057: Bromomethane (-27.8 limit 20), Iodomethane (-29.7 limit 20). These are poor performing analytes that recovered within control limits in both the LCS/LCSD. The associated samples were non-detect for the affected analytes; therefore, the data have been reported.Trip Blank (280-189690-29), (CCV 280-649057/2) and (CCV 280-649057/3)

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-649057 recovered outside control limits for the following analytes: Bromomethane (54 limit 20) Chloroethane (41 limit 20), Chloromethane (68 limit 20) Vinyl Chloride (58 limit 20), Dichlorodifluoromethane (104 limit 20), Iodomethane (46 limit 20) and Trichlorofluoromethane (38 limit 20) . The recoveries in both the LCS/LCSD were within control limits; therefore, the data have been reported.Trip Blank (280-189690-29), (LCS 280-649057/4), (LCS 280-649057/6), (LCSD 280-649057/5) and (LCSD 280-649057/7)

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-649057. An LCS/LCSD pair was analyzed for precision and accuracy. Trip Blank (280-189690-29)

Method 8260D: The following analyte recovered outside control limits for the LCSD associated with preparation batch 280-648495 and analytical batch 280-649668: Bromoform 76%R(77-135)%R ME (70-124)%R. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 280-648495 and analytical batch 280-649668 recovered outside control limits for the following analytes: Chloromethane 29(25) the %R was within control criteria for this compound.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 280-648536 and analytical batch 280-649974 was outside control limits for %RPD. Sample matrix interference is suspected. An LCS/LCSD pair was analyzed for batch precision and accuracy. POST-SO-SB1-10-04042024 (280-189690-15[MS]) and POST-SO-SB1-10-04042024 (280-189690-15[MSD])

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 280-648536 and analytical batch 280-649974 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.

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

Eurofins Denver

Job ID: 280-189690-1 (Continued) Eurofins Denver

General Chemistry

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

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189690-1

Client Sample ID: POST-SO-SB5-05-04032024 — Lab Sample ID: 280-189690-1

No Detections.

Client Sample ID: POST-SO-SB5-10-04032024 — Lab Sample ID: 280-189690-2

No Detections.

Client Sample ID: POST-SO-SB5-15-04032024 — Lab Sample ID: 280-189690-3

No Detections.

Client Sample ID: POST-SO-SB5-20-04032024 — Lab Sample ID: 280-189690-4

No Detections.

Client Sample ID: POST-SO-SB5-25-04032024 — Lab Sample ID: 280-189690-5

No Detections.

Client Sample ID: DUP-SO-2-04032024 — Lab Sample ID: 280-189690-6

No Detections.

Client Sample ID: POST-SO-SB2-05-04042024 — Lab Sample ID: 280-189690-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	140		87		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: POST-SO-SB2-10-04042024 — Lab Sample ID: 280-189690-8

No Detections.

Client Sample ID: POST-SO-SB2-15-04042024 — Lab Sample ID: 280-189690-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	220		86		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: POST-SO-SB2-20-04042024 — Lab Sample ID: 280-189690-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	220		71		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: POST-SO-SB2-25-04042024 — Lab Sample ID: 280-189690-11

No Detections.

Client Sample ID: POST-SO-SB2-30-04042024 — Lab Sample ID: 280-189690-12

No Detections.

Client Sample ID: DUP-SO-1-04042024 — Lab Sample ID: 280-189690-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	220		85		ug/Kg	1	☼	8260D	Total/NA
2-Butanone (MEK)	30		21		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: POST-SO-SB1-05-04042024 — Lab Sample ID: 280-189690-14

No Detections.

Client Sample ID: POST-SO-SB1-10-04042024 — Lab Sample ID: 280-189690-15

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189690-1

Client Sample ID: POST-SO-SB1-15-04042024 — **Lab Sample ID: 280-189690-16**

No Detections.

Client Sample ID: POST-SO-SB1-20-04042024 — **Lab Sample ID: 280-189690-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	120		83		ug/Kg	1		8260D	Total/NA

Client Sample ID: POST-SO-SB3-05-04042024 — **Lab Sample ID: 280-189690-18**

No Detections.

Client Sample ID: POST-SO-SB3-10-04042024 — **Lab Sample ID: 280-189690-19**

No Detections.

Client Sample ID: POST-SO-SB3-15-04042024 — **Lab Sample ID: 280-189690-20**

No Detections.

Client Sample ID: POST-SO-SB3-20-04042024 — **Lab Sample ID: 280-189690-21**

No Detections.

Client Sample ID: POST-SO-SB3-25-04042024 — **Lab Sample ID: 280-189690-22**

No Detections.

Client Sample ID: POST-SO-SB3-30-04042024 — **Lab Sample ID: 280-189690-23**

No Detections.

Client Sample ID: POST-SO-SB3-35-04042024 — **Lab Sample ID: 280-189690-24**

No Detections.

Client Sample ID: POST-SO-SB3-40-04042024 — **Lab Sample ID: 280-189690-25**

No Detections.

Client Sample ID: POST-SO-SB3-45-04042024 — **Lab Sample ID: 280-189690-26**

No Detections.

Client Sample ID: POST-SO-SB3-50-04042024 — **Lab Sample ID: 280-189690-27**

No Detections.

Client Sample ID: DUP-SO-2-04042024 — **Lab Sample ID: 280-189690-28**

No Detections.

Client Sample ID: Trip Blank — **Lab Sample ID: 280-189690-29**

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189690-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
Moisture	Percent Moisture	EPA	EET DEN
5030B	Purge and Trap	SW846	EET DEN
5035	Closed System Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189690-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-189690-1	POST-SO-SB5-05-04032024	Solid	04/03/24 17:20	04/05/24 08:45
280-189690-2	POST-SO-SB5-10-04032024	Solid	04/03/24 17:25	04/05/24 08:45
280-189690-3	POST-SO-SB5-15-04032024	Solid	04/03/24 17:30	04/05/24 08:45
280-189690-4	POST-SO-SB5-20-04032024	Solid	04/03/24 17:35	04/05/24 08:45
280-189690-5	POST-SO-SB5-25-04032024	Solid	04/03/24 17:40	04/05/24 08:45
280-189690-6	DUP-SO-2-04032024	Solid	04/03/24 17:00	04/05/24 08:45
280-189690-7	POST-SO-SB2-05-04042024	Solid	04/04/24 11:40	04/05/24 08:45
280-189690-8	POST-SO-SB2-10-04042024	Solid	04/04/24 11:45	04/05/24 08:45
280-189690-9	POST-SO-SB2-15-04042024	Solid	04/04/24 11:50	04/05/24 08:45
280-189690-10	POST-SO-SB2-20-04042024	Solid	04/04/24 12:10	04/05/24 08:45
280-189690-11	POST-SO-SB2-25-04042024	Solid	04/04/24 12:15	04/05/24 08:45
280-189690-12	POST-SO-SB2-30-04042024	Solid	04/04/24 12:20	04/05/24 08:45
280-189690-13	DUP-SO-1-04042024	Solid	04/04/24 11:00	04/05/24 08:45
280-189690-14	POST-SO-SB1-05-04042024	Solid	04/04/24 13:25	04/05/24 08:45
280-189690-15	POST-SO-SB1-10-04042024	Solid	04/04/24 13:30	04/05/24 08:45
280-189690-16	POST-SO-SB1-15-04042024	Solid	04/04/24 13:35	04/05/24 08:45
280-189690-17	POST-SO-SB1-20-04042024	Solid	04/04/24 13:40	04/05/24 08:45
280-189690-18	POST-SO-SB3-05-04042024	Solid	04/04/24 15:00	04/05/24 08:45
280-189690-19	POST-SO-SB3-10-04042024	Solid	04/04/24 15:05	04/05/24 08:45
280-189690-20	POST-SO-SB3-15-04042024	Solid	04/04/24 15:10	04/05/24 08:45
280-189690-21	POST-SO-SB3-20-04042024	Solid	04/04/24 15:15	04/05/24 08:45
280-189690-22	POST-SO-SB3-25-04042024	Solid	04/04/24 15:20	04/05/24 08:45
280-189690-23	POST-SO-SB3-30-04042024	Solid	04/04/24 15:25	04/05/24 08:45
280-189690-24	POST-SO-SB3-35-04042024	Solid	04/04/24 15:30	04/05/24 08:45
280-189690-25	POST-SO-SB3-40-04042024	Solid	04/04/24 15:35	04/05/24 08:45
280-189690-26	POST-SO-SB3-45-04042024	Solid	04/04/24 15:40	04/05/24 08:45
280-189690-27	POST-SO-SB3-50-04042024	Solid	04/04/24 15:45	04/05/24 08:45
280-189690-28	DUP-SO-2-04042024	Solid	04/04/24 14:00	04/05/24 08:45
280-189690-29	Trip Blank	Water	04/04/24 13:00	04/05/24 08:45

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

Client Sample ID: POST-SO-SB5-05-04032024
Lab Sample ID: 280-189690-1
Date Collected: 04/03/24 17:20
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 82.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Styrene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
cis-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
trans-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
N-Propylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
n-Butylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
4-Chlorotoluene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,4-Dichlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Ethylene Dibromide	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
3-Chloro-1-propene	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,2-Dichloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Vinyl acetate	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,3,5-Trimethylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Bromobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Methylcyclohexane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Toluene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Chlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Tetrahydrofuran	23	U	23		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Hexane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Cyclohexane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,2,4-Trichlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Chlorodibromomethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Tetrachloroethene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
sec-Butylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,3-Dichloropropane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Methyl tert-butyl ether	23	U	23		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
m-Xylene & p-Xylene	2.9	U	2.9		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,3-Dichlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Carbon tetrachloride	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,1-Dichloropropene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
2-Hexanone	23	U	23		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
2,2-Dichloropropane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Ethyl ether	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,1,1,2-Tetrachloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Acetone	93	U	93		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Chloroform	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Benzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,1,1-Trichloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Bromomethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Chloromethane	12	U *1	12		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Iodomethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Dibromomethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Chlorobromomethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Chloroethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Vinyl chloride	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Methylene Chloride	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1

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

Client Sample ID: POST-SO-SB5-05-04032024 — **Lab Sample ID: 280-189690-1**
Date Collected: 04/03/24 17:20 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 82.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Bromoform	5.8	U *-	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Dichlorobromomethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,1-Dichloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,1-Dichloroethene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Trichlorofluoromethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Dichlorodifluoromethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	23		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,2-Dichloropropane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,1,2-Trichloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Trichloroethene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Methyl acetate	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,1,2,2-Tetrachloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,2,3-Trichlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Hexachlorobutadiene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Naphthalene	7.7	U	7.7		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
o-Xylene	2.9	U	2.9		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
2-Chlorotoluene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,2-Dichlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,2,4-Trimethylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,2-Dibromo-3-Chloropropane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,2,3-Trichloropropane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Ethyl methacrylate	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
tert-Butylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Isopropylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
4-Isopropyltoluene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Xylenes, Total	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,2-Dichloroethene, Total	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
1,3-Dichloropropene, Total	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Trihalomethanes, Total	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1
Total BTEX	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/16/24 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*58 - 140*	*04/05/24 14:15*	*04/16/24 13:42*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*04/05/24 14:15*	*04/16/24 13:42*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 14:15*	*04/16/24 13:42*	*1*
4-Bromofluorobenzene (Surr)	*105*		*76 - 127*	*04/05/24 14:15*	*04/16/24 13:42*	*1*

Client Sample ID: POST-SO-SB5-10-04032024 — **Lab Sample ID: 280-189690-2**
Date Collected: 04/03/24 17:25 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 83.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Styrene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
cis-1,3-Dichloropropene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
trans-1,3-Dichloropropene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
N-Propylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
n-Butylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
4-Chlorotoluene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1

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

Client Sample ID: POST-SO-SB5-10-04032024
Lab Sample ID: 280-189690-2
Date Collected: 04/03/24 17:25
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Ethylene Dibromide	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
3-Chloro-1-propene	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,2-Dichloroethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Vinyl acetate	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
4-Methyl-2-pentanone (MIBK)	22	U	22		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,3,5-Trimethylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Bromobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Methylcyclohexane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Toluene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Chlorobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Tetrahydrofuran	22	U	22		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Hexane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Cyclohexane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,2,4-Trichlorobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Chlorodibromomethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Tetrachloroethene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
sec-Butylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,3-Dichloropropane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
cis-1,2-Dichloroethene	2.7	U	2.7		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
trans-1,2-Dichloroethene	2.7	U	2.7		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Methyl tert-butyl ether	22	U	22		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
m-Xylene & p-Xylene	2.7	U	2.7		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,3-Dichlorobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Carbon tetrachloride	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,1-Dichloropropene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
2-Hexanone	22	U	22		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
2,2-Dichloropropane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Ethyl ether	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,1,1,2-Tetrachloroethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Acetone	88	U	88		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Chloroform	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Benzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,1,1-Trichloroethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Bromomethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Chloromethane	11	U *1	11		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Iodomethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Dibromomethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Chlorobromomethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Chloroethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Vinyl chloride	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Methylene Chloride	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Carbon disulfide	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Bromoform	5.5	U *-	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Dichlorobromomethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,1-Dichloroethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,1-Dichloroethene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Trichlorofluoromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Dichlorodifluoromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1

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

Client Sample ID: POST-SO-SB5-10-04032024 — **Lab Sample ID: 280-189690-2**
Date Collected: 04/03/24 17:25 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 83.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,2-Dichloropropane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
2-Butanone (MEK)	22	U	22		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,1,2-Trichloroethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Trichloroethene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Methyl acetate	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,1,2,2-Tetrachloroethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,2,3-Trichlorobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Hexachlorobutadiene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Naphthalene	7.2	U	7.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
o-Xylene	2.7	U	2.7		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
2-Chlorotoluene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,2-Dichlorobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,2,4-Trimethylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,2,3-Trichloropropane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Ethyl methacrylate	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
tert-Butylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Isopropylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
4-Isopropyltoluene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Xylenes, Total	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,2-Dichloroethene, Total	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
1,3-Dichloropropene, Total	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Trihalomethanes, Total	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1
Total BTEX	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*58 - 140*	*04/05/24 14:15*	*04/16/24 14:02*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 121*	*04/05/24 14:15*	*04/16/24 14:02*	*1*
Toluene-d8 (Surr)	*98*		*80 - 126*	*04/05/24 14:15*	*04/16/24 14:02*	*1*
4-Bromofluorobenzene (Surr)	*105*		*76 - 127*	*04/05/24 14:15*	*04/16/24 14:02*	*1*

Client Sample ID: POST-SO-SB5-15-04032024 — **Lab Sample ID: 280-189690-3**
Date Collected: 04/03/24 17:30 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 82.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Styrene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
cis-1,3-Dichloropropene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
trans-1,3-Dichloropropene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
N-Propylbenzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
n-Butylbenzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
4-Chlorotoluene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,4-Dichlorobenzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Ethylene Dibromide	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
3-Chloro-1-propene	16	U	16		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,2-Dichloroethane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Vinyl acetate	16	U	16		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
4-Methyl-2-pentanone (MIBK)	31	U	31		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,3,5-Trimethylbenzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1

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

Client Sample ID: POST-SO-SB5-15-04032024
Lab Sample ID: 280-189690-3
Date Collected: 04/03/24 17:30
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 82.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Methylcyclohexane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Toluene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Chlorobenzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Tetrahydrofuran	31	U	31		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Hexane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Cyclohexane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,2,4-Trichlorobenzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Chlorodibromomethane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Tetrachloroethene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
sec-Butylbenzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,3-Dichloropropane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
cis-1,2-Dichloroethene	3.9	U	3.9		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
trans-1,2-Dichloroethene	3.9	U	3.9		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Methyl tert-butyl ether	31	U	31		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
m-Xylene & p-Xylene	3.9	U	3.9		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,3-Dichlorobenzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Carbon tetrachloride	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,1-Dichloropropene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
2-Hexanone	31	U	31		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
2,2-Dichloropropane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Ethyl ether	16	U	16		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,1,1,2-Tetrachloroethane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Acetone	130	U	130		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Chloroform	16	U	16		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Benzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,1,1-Trichloroethane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Bromomethane	16	U	16		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Chloromethane	16	U *1	16		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Iodomethane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Dibromomethane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Chlorobromomethane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Chloroethane	16	U	16		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Vinyl chloride	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Methylene Chloride	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Carbon disulfide	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Bromoform	7.8	U *-	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Dichlorobromomethane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,1-Dichloroethane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,1-Dichloroethene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Trichlorofluoromethane	16	U	16		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Dichlorodifluoromethane	16	U	16		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	31	U	31		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,2-Dichloropropane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
2-Butanone (MEK)	31	U	31		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,1,2-Trichloroethane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Trichloroethene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Methyl acetate	16	U	16		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,1,2,2-Tetrachloroethane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1

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

Client Sample ID: POST-SO-SB5-15-04032024 — **Lab Sample ID: 280-189690-3**
Date Collected: 04/03/24 17:30 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 82.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Hexachlorobutadiene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Naphthalene	10	U	10		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
o-Xylene	3.9	U	3.9		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
2-Chlorotoluene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,2-Dichlorobenzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,2,4-Trimethylbenzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,2-Dibromo-3-Chloropropane	16	U	16		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,2,3-Trichloropropane	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Ethyl methacrylate	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
tert-Butylbenzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Isopropylbenzene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
4-Isopropyltoluene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Xylenes, Total	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,2-Dichloroethene, Total	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
1,3-Dichloropropene, Total	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Trihalomethanes, Total	16	U	16		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1
Total BTEX	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/16/24 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*58 - 140*	*04/05/24 14:15*	*04/16/24 14:22*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 121*	*04/05/24 14:15*	*04/16/24 14:22*	*1*
Toluene-d8 (Surr)	*97*		*80 - 126*	*04/05/24 14:15*	*04/16/24 14:22*	*1*
4-Bromofluorobenzene (Surr)	*105*		*76 - 127*	*04/05/24 14:15*	*04/16/24 14:22*	*1*

Client Sample ID: POST-SO-SB5-20-04032024 — **Lab Sample ID: 280-189690-4**
Date Collected: 04/03/24 17:35 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 86.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Styrene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
cis-1,3-Dichloropropene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
trans-1,3-Dichloropropene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
N-Propylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
n-Butylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
4-Chlorotoluene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,4-Dichlorobenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Ethylene Dibromide	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
3-Chloro-1-propene	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,2-Dichloroethane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Vinyl acetate	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
4-Methyl-2-pentanone (MIBK)	25	U	25		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,3,5-Trimethylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Bromobenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Methylcyclohexane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Toluene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Chlorobenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Tetrahydrofuran	25	U	25		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Hexane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Cyclohexane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1

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

Client Sample ID: POST-SO-SB5-20-04032024
Lab Sample ID: 280-189690-4
Date Collected: 04/03/24 17:35
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 86.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Chlorodibromomethane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Tetrachloroethene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
sec-Butylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,3-Dichloropropane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
cis-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
trans-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Methyl tert-butyl ether	25	U	25		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
m-Xylene & p-Xylene	3.1	U	3.1		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,3-Dichlorobenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Carbon tetrachloride	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,1-Dichloropropene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
2-Hexanone	25	U	25		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
2,2-Dichloropropane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Ethyl ether	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,1,1,2-Tetrachloroethane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Acetone	99	U	99		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Chloroform	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Benzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,1,1-Trichloroethane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Bromomethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Chloromethane	12	U *1	12		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Iodomethane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Dibromomethane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Chlorobromomethane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Chloroethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Vinyl chloride	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Methylene Chloride	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Carbon disulfide	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Bromoform	6.2	U *-	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Dichlorobromomethane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,1-Dichloroethane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,1-Dichloroethene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Trichlorofluoromethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Dichlorodifluoromethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	25	U	25		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,2-Dichloropropane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
2-Butanone (MEK)	25	U	25		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,1,2-Trichloroethane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Trichloroethene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Methyl acetate	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,1,2,2-Tetrachloroethane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,2,3-Trichlorobenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Hexachlorobutadiene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Naphthalene	8.2	U	8.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
o-Xylene	3.1	U	3.1		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
2-Chlorotoluene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,2-Dichlorobenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,2,4-Trimethylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1

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

Client Sample ID: POST-SO-SB5-20-04032024 — **Lab Sample ID: 280-189690-4**
Date Collected: 04/03/24 17:35 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 86.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,2,3-Trichloropropane	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Ethyl methacrylate	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
tert-Butylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Isopropylbenzene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
4-Isopropyltoluene	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Xylenes, Total	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,2-Dichloroethene, Total	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
1,3-Dichloropropene, Total	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Trihalomethanes, Total	12	U	12		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1
Total BTEX	6.2	U	6.2		ug/Kg	☼	04/05/24 14:15	04/16/24 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*58 - 140*	*04/05/24 14:15*	*04/16/24 14:42*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*04/05/24 14:15*	*04/16/24 14:42*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 14:15*	*04/16/24 14:42*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*	*04/05/24 14:15*	*04/16/24 14:42*	*1*

Client Sample ID: POST-SO-SB5-25-04032024 — **Lab Sample ID: 280-189690-5**
Date Collected: 04/03/24 17:40 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 83.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Styrene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
cis-1,3-Dichloropropene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
trans-1,3-Dichloropropene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
N-Propylbenzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
n-Butylbenzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
4-Chlorotoluene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,4-Dichlorobenzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Ethylene Dibromide	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
3-Chloro-1-propene	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,2-Dichloroethane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Vinyl acetate	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
4-Methyl-2-pentanone (MIBK)	22	U	22		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,3,5-Trimethylbenzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Bromobenzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Methylcyclohexane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Toluene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Chlorobenzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Tetrahydrofuran	22	U	22		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Hexane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Cyclohexane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,2,4-Trichlorobenzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Chlorodibromomethane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Tetrachloroethene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
sec-Butylbenzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,3-Dichloropropane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
cis-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
trans-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1

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

Client Sample ID: POST-SO-SB5-25-04032024
Date Collected: 04/03/24 17:40
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-5
Matrix: Solid
Percent Solids: 83.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	22	U	22		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
m-Xylene & p-Xylene	2.8	U	2.8		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,3-Dichlorobenzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Carbon tetrachloride	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,1-Dichloropropene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
2-Hexanone	22	U	22		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
2,2-Dichloropropane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Ethyl ether	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,1,1,2-Tetrachloroethane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Acetone	90	U	90		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Chloroform	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Benzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,1,1-Trichloroethane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Bromomethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Chloromethane	11	U *1	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Iodomethane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Dibromomethane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Chlorobromomethane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Chloroethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Vinyl chloride	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Methylene Chloride	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Carbon disulfide	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Bromoform	5.6	U *-	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Dichlorobromomethane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,1-Dichloroethane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,1-Dichloroethene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Trichlorofluoromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Dichlorodifluoromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,2-Dichloropropane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
2-Butanone (MEK)	22	U	22		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,1,2-Trichloroethane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Trichloroethene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Methyl acetate	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,1,2,2-Tetrachloroethane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,2,3-Trichlorobenzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Hexachlorobutadiene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Naphthalene	7.4	U	7.4		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
o-Xylene	2.8	U	2.8		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
2-Chlorotoluene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,2-Dichlorobenzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,2,4-Trimethylbenzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,2,3-Trichloropropane	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Ethyl methacrylate	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
tert-Butylbenzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Isopropylbenzene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
4-Isopropyltoluene	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Xylenes, Total	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1

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

Client Sample ID: POST-SO-SB5-25-04032024 — **Lab Sample ID: 280-189690-5**
Date Collected: 04/03/24 17:40 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 83.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
1,3-Dichloropropene, Total	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Trihalomethanes, Total	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1
Total BTEX	5.6	U	5.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*58 - 140*	*04/05/24 14:15*	*04/16/24 15:01*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*04/05/24 14:15*	*04/16/24 15:01*	*1*
Toluene-d8 (Surr)	*97*		*80 - 126*	*04/05/24 14:15*	*04/16/24 15:01*	*1*
4-Bromofluorobenzene (Surr)	*105*		*76 - 127*	*04/05/24 14:15*	*04/16/24 15:01*	*1*

Client Sample ID: DUP-SO-2-04032024 — **Lab Sample ID: 280-189690-6**
Date Collected: 04/03/24 17:00 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 84.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Styrene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
cis-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
trans-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
N-Propylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
n-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
4-Chlorotoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,4-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Ethylene Dibromide	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
3-Chloro-1-propene	10	U	10		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,2-Dichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Vinyl acetate	10	U	10		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
4-Methyl-2-pentanone (MIBK)	21	U	21		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,3,5-Trimethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Bromobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Methylcyclohexane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Toluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Chlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Tetrahydrofuran	21	U	21		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Hexane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Cyclohexane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,2,4-Trichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Chlorodibromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Tetrachloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
sec-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,3-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
cis-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
trans-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Methyl tert-butyl ether	21	U	21		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
m-Xylene & p-Xylene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,3-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Carbon tetrachloride	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,1-Dichloropropene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
2-Hexanone	21	U	21		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
2,2-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1

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

Client Sample ID: DUP-SO-2-04032024
Lab Sample ID: 280-189690-6
Date Collected: 04/03/24 17:00
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	10	U	10		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,1,1,2-Tetrachloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Acetone	83	U	83		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Chloroform	10	U	10		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Benzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,1,1-Trichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Bromomethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Chloromethane	10	U *1	10		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Iodomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Dibromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Chlorobromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Chloroethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Vinyl chloride	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Methylene Chloride	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Carbon disulfide	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Bromoform	5.2	U *-	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Dichlorobromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,1-Dichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,1-Dichloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Trichlorofluoromethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Dichlorodifluoromethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,2-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
2-Butanone (MEK)	21	U	21		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,1,2-Trichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Trichloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Methyl acetate	10	U	10		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,1,2,2-Tetrachloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,2,3-Trichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Hexachlorobutadiene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Naphthalene	6.9	U	6.9		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
o-Xylene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
2-Chlorotoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,2-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,2,4-Trimethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,2,3-Trichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Ethyl methacrylate	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
tert-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Isopropylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
4-Isopropyltoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Xylenes, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,2-Dichloroethene, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
1,3-Dichloropropene, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Trihalomethanes, Total	10	U	10		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1
Total BTEX	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*	*04/05/24 14:15*	*04/16/24 15:21*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*04/05/24 14:15*	*04/16/24 15:21*	*1*

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

Client Sample ID: DUP-SO-2-04032024
Date Collected: 04/03/24 17:00
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-6
Matrix: Solid
Percent Solids: 84.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 14:15*	*04/16/24 15:21*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*04/05/24 14:15*	*04/16/24 15:21*	*1*

Client Sample ID: POST-SO-SB2-05-04042024
Date Collected: 04/04/24 11:40
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-7
Matrix: Solid
Percent Solids: 84.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Styrene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
cis-1,3-Dichloropropene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
trans-1,3-Dichloropropene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
N-Propylbenzene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
n-Butylbenzene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
4-Chlorotoluene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
1,4-Dichlorobenzene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Ethylene Dibromide	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
3-Chloro-1-propene	11	U	11		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
1,2-Dichloroethane	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Vinyl acetate	11	U	11		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
4-Methyl-2-pentanone (MIBK)	22	U	22		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
1,3,5-Trimethylbenzene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Bromobenzene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Methylcyclohexane	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Toluene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Chlorobenzene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Tetrahydrofuran	22	U	22		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Hexane	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Cyclohexane	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
1,2,4-Trichlorobenzene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Chlorodibromomethane	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Tetrachloroethene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
sec-Butylbenzene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
1,3-Dichloropropane	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
cis-1,2-Dichloroethene	2.7	U	2.7		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
trans-1,2-Dichloroethene	2.7	U	2.7		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Methyl tert-butyl ether	22	U	22		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
m-Xylene & p-Xylene	2.7	U	2.7		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
1,3-Dichlorobenzene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Carbon tetrachloride	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
1,1-Dichloropropene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
2-Hexanone	22	U	22		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
2,2-Dichloropropane	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Ethyl ether	11	U	11		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
1,1,1,2-Tetrachloroethane	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Acetone	**140**		87		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Chloroform	11	U	11		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Benzene	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
1,1,1-Trichloroethane	5.5	U	5.5		ug/Kg		04/05/24 14:15	04/16/24 15:41	1
Bromomethane	11	U	11		ug/Kg		04/05/24 14:15	04/16/24 15:41	1

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

Client Sample ID: POST-SO-SB2-05-04042024
Lab Sample ID: 280-189690-7
Date Collected: 04/04/24 11:40
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 84.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	11	U *1	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Iodomethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Dibromomethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Chlorobromomethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Chloroethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Vinyl chloride	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Methylene Chloride	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Carbon disulfide	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Bromoform	5.5	U *-	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Dichlorobromomethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
1,1-Dichloroethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
1,1-Dichloroethene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Trichlorofluoromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Dichlorodifluoromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
1,2-Dichloropropane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
2-Butanone (MEK)	22	U	22		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
1,1,2-Trichloroethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Trichloroethene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Methyl acetate	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
1,1,2,2-Tetrachloroethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
1,2,3-Trichlorobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Hexachlorobutadiene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Naphthalene	7.2	U	7.2		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
o-Xylene	2.7	U	2.7		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
2-Chlorotoluene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
1,2-Dichlorobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
1,2,4-Trimethylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
1,2,3-Trichloropropane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Ethyl methacrylate	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
tert-Butylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Isopropylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
4-Isopropyltoluene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Xylenes, Total	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
1,2-Dichloroethene, Total	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
1,3-Dichloropropene, Total	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Trihalomethanes, Total	11	U	11		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1
Total BTEX	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/16/24 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*58 - 140*	*04/05/24 14:15*	*04/16/24 15:41*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*04/05/24 14:15*	*04/16/24 15:41*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 14:15*	*04/16/24 15:41*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*04/05/24 14:15*	*04/16/24 15:41*	*1*

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

Client Sample ID: POST-SO-SB2-10-04042024
Date Collected: 04/04/24 11:45
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-8
Matrix: Solid
Percent Solids: 87.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Styrene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
cis-1,3-Dichloropropene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
trans-1,3-Dichloropropene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
N-Propylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
n-Butylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
4-Chlorotoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,4-Dichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Ethylene Dibromide	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
3-Chloro-1-propene	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,2-Dichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Vinyl acetate	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
4-Methyl-2-pentanone (MIBK)	24	U	24		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,3,5-Trimethylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Bromobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Methylcyclohexane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Toluene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Chlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Tetrahydrofuran	24	U	24		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Hexane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Cyclohexane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,2,4-Trichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Chlorodibromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Tetrachloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
sec-Butylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,3-Dichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
cis-1,2-Dichloroethene	3.0	U	3.0		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
trans-1,2-Dichloroethene	3.0	U	3.0		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Methyl tert-butyl ether	24	U	24		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
m-Xylene & p-Xylene	3.0	U	3.0		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,3-Dichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Carbon tetrachloride	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,1-Dichloropropene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
2-Hexanone	24	U	24		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
2,2-Dichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Ethyl ether	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,1,1,2-Tetrachloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Acetone	95	U	95		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Chloroform	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Benzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,1,1-Trichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Bromomethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Chloromethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Iodomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Dibromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Chlorobromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Chloroethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Vinyl chloride	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Methylene Chloride	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1

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

Client Sample ID: POST-SO-SB2-10-04042024 — **Lab Sample ID: 280-189690-8**
Date Collected: 04/04/24 11:45 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 87.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Bromoform	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Dichlorobromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,1-Dichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,1-Dichloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Trichlorofluoromethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Dichlorodifluoromethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	24		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,2-Dichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
2-Butanone (MEK)	24	U	24		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,1,2-Trichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Trichloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Methyl acetate	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,1,2,2-Tetrachloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,2,3-Trichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Hexachlorobutadiene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Naphthalene	7.8	U	7.8		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
o-Xylene	3.0	U	3.0		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
2-Chlorotoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,2-Dichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,2,4-Trimethylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,2-Dibromo-3-Chloropropane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,2,3-Trichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Ethyl methacrylate	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
tert-Butylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Isopropylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
4-Isopropyltoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Xylenes, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,2-Dichloroethene, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
1,3-Dichloropropene, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Trihalomethanes, Total	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1
Total BTEX	5.9	U	5.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*58 - 140*	*04/05/24 14:15*	*04/18/24 00:00*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*04/05/24 14:15*	*04/18/24 00:00*	*1*
Toluene-d8 (Surr)	*98*		*80 - 126*	*04/05/24 14:15*	*04/18/24 00:00*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*04/05/24 14:15*	*04/18/24 00:00*	*1*

Client Sample ID: POST-SO-SB2-15-04042024 — **Lab Sample ID: 280-189690-9**
Date Collected: 04/04/24 11:50 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 87.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Styrene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
cis-1,3-Dichloropropene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
trans-1,3-Dichloropropene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
N-Propylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
n-Butylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
4-Chlorotoluene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1

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

Client Sample ID: POST-SO-SB2-15-04042024
Date Collected: 04/04/24 11:50
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-9
Matrix: Solid
Percent Solids: 87.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Ethylene Dibromide	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
3-Chloro-1-propene	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,2-Dichloroethane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Vinyl acetate	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
4-Methyl-2-pentanone (MIBK)	22	U	22		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,3,5-Trimethylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Bromobenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Methylcyclohexane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Toluene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Chlorobenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Tetrahydrofuran	22	U	22		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Hexane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Cyclohexane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,2,4-Trichlorobenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Chlorodibromomethane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Tetrachloroethene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
sec-Butylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,3-Dichloropropane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
cis-1,2-Dichloroethene	2.7	U	2.7		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
trans-1,2-Dichloroethene	2.7	U	2.7		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Methyl tert-butyl ether	22	U	22		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
m-Xylene & p-Xylene	2.7	U	2.7		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,3-Dichlorobenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Carbon tetrachloride	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,1-Dichloropropene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
2-Hexanone	22	U	22		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
2,2-Dichloropropane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Ethyl ether	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,1,1,2-Tetrachloroethane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Acetone	**220**		86		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Chloroform	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Benzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,1,1-Trichloroethane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Bromomethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Chloromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Iodomethane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Dibromomethane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Chlorobromomethane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Chloroethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Vinyl chloride	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Methylene Chloride	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Carbon disulfide	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Bromoform	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Dichlorobromomethane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,1-Dichloroethane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,1-Dichloroethene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Trichlorofluoromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Dichlorodifluoromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1

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

Client Sample ID: POST-SO-SB2-15-04042024
Date Collected: 04/04/24 11:50
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-9
Matrix: Solid
Percent Solids: 87.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,2-Dichloropropane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
2-Butanone (MEK)	22	U	22		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,1,2-Trichloroethane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Trichloroethene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Methyl acetate	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,1,2,2-Tetrachloroethane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,2,3-Trichlorobenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Hexachlorobutadiene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Naphthalene	7.1	U	7.1		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
o-Xylene	2.7	U	2.7		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
2-Chlorotoluene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,2-Dichlorobenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,2,4-Trimethylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,2,3-Trichloropropane	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Ethyl methacrylate	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
tert-Butylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Isopropylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
4-Isopropyltoluene	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Xylenes, Total	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,2-Dichloroethene, Total	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
1,3-Dichloropropene, Total	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Trihalomethanes, Total	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1
Total BTEX	5.4	U	5.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*58 - 140*	*04/05/24 14:15*	*04/18/24 00:19*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*04/05/24 14:15*	*04/18/24 00:19*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 14:15*	*04/18/24 00:19*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*04/05/24 14:15*	*04/18/24 00:19*	*1*

Client Sample ID: POST-SO-SB2-20-04042024
Date Collected: 04/04/24 12:10
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-10
Matrix: Solid
Percent Solids: 86.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Styrene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
cis-1,3-Dichloropropene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
trans-1,3-Dichloropropene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
N-Propylbenzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
n-Butylbenzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
4-Chlorotoluene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,4-Dichlorobenzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Ethylene Dibromide	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
3-Chloro-1-propene	8.8	U	8.8		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,2-Dichloroethane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Vinyl acetate	8.8	U	8.8		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
4-Methyl-2-pentanone (MIBK)	18	U	18		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,3,5-Trimethylbenzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1

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

Client Sample ID: POST-SO-SB2-20-04042024
Lab Sample ID: 280-189690-10
Date Collected: 04/04/24 12:10
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 86.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Methylcyclohexane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Toluene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Chlorobenzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Tetrahydrofuran	18	U	18		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Hexane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Cyclohexane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,2,4-Trichlorobenzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Chlorodibromomethane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Tetrachloroethene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
sec-Butylbenzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,3-Dichloropropane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
cis-1,2-Dichloroethene	2.2	U	2.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
trans-1,2-Dichloroethene	2.2	U	2.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Methyl tert-butyl ether	18	U	18		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
m-Xylene & p-Xylene	2.2	U	2.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,3-Dichlorobenzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Carbon tetrachloride	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,1-Dichloropropene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
2-Hexanone	18	U	18		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
2,2-Dichloropropane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Ethyl ether	8.8	U	8.8		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,1,1,2-Tetrachloroethane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Acetone	**220**		71		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Chloroform	8.8	U	8.8		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Benzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,1,1-Trichloroethane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Bromomethane	8.8	U	8.8		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Chloromethane	8.8	U	8.8		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Iodomethane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Dibromomethane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Chlorobromomethane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Chloroethane	8.8	U	8.8		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Vinyl chloride	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Methylene Chloride	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Carbon disulfide	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Bromoform	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Dichlorobromomethane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,1-Dichloroethane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,1-Dichloroethene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Trichlorofluoromethane	8.8	U	8.8		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Dichlorodifluoromethane	8.8	U	8.8		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	18	U	18		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,2-Dichloropropane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
2-Butanone (MEK)	18	U	18		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,1,2-Trichloroethane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Trichloroethene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Methyl acetate	8.8	U	8.8		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,1,2,2-Tetrachloroethane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1

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

Client Sample ID: POST-SO-SB2-20-04042024 — **Lab Sample ID: 280-189690-10**
Date Collected: 04/04/24 12:10 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 86.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Hexachlorobutadiene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Naphthalene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
o-Xylene	2.2	U	2.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
2-Chlorotoluene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,2-Dichlorobenzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,2,4-Trimethylbenzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,2-Dibromo-3-Chloropropane	8.8	U	8.8		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,2,3-Trichloropropane	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Ethyl methacrylate	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
tert-Butylbenzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Isopropylbenzene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
4-Isopropyltoluene	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Xylenes, Total	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,2-Dichloroethene, Total	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
1,3-Dichloropropene, Total	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Trihalomethanes, Total	8.8	U	8.8		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1
Total BTEX	4.4	U	4.4		ug/Kg	☼	04/05/24 14:15	04/18/24 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*58 - 140*	*04/05/24 14:15*	*04/18/24 00:39*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 121*	*04/05/24 14:15*	*04/18/24 00:39*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 14:15*	*04/18/24 00:39*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*04/05/24 14:15*	*04/18/24 00:39*	*1*

Client Sample ID: POST-SO-SB2-25-04042024 — **Lab Sample ID: 280-189690-11**
Date Collected: 04/04/24 12:15 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 83.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Styrene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
cis-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
trans-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
N-Propylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
n-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
4-Chlorotoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,4-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Ethylene Dibromide	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
3-Chloro-1-propene	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,2-Dichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Vinyl acetate	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
4-Methyl-2-pentanone (MIBK)	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,3,5-Trimethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Bromobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Methylcyclohexane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Toluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Chlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Tetrahydrofuran	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Hexane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Cyclohexane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1

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

Client Sample ID: POST-SO-SB2-25-04042024
Lab Sample ID: 280-189690-11
Date Collected: 04/04/24 12:15
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 83.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Chlorodibromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Tetrachloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
sec-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,3-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
cis-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
trans-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Methyl tert-butyl ether	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
m-Xylene & p-Xylene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,3-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Carbon tetrachloride	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,1-Dichloropropene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
2-Hexanone	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
2,2-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Ethyl ether	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,1,1,2-Tetrachloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Acetone	84	U	84		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Chloroform	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Benzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,1,1-Trichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Bromomethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Chloromethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Iodomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Dibromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Chlorobromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Chloroethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Vinyl chloride	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Methylene Chloride	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Carbon disulfide	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Bromoform	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Dichlorobromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,1-Dichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,1-Dichloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Trichlorofluoromethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Dichlorodifluoromethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,2-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
2-Butanone (MEK)	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,1,2-Trichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Trichloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Methyl acetate	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,1,2,2-Tetrachloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,2,3-Trichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Hexachlorobutadiene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Naphthalene	6.9	U	6.9		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
o-Xylene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
2-Chlorotoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,2-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,2,4-Trimethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1

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

Client Sample ID: POST-SO-SB2-25-04042024 — **Lab Sample ID: 280-189690-11**
Date Collected: 04/04/24 12:15 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 83.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,2,3-Trichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Ethyl methacrylate	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
tert-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Isopropylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
4-Isopropyltoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Xylenes, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,2-Dichloroethene, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
1,3-Dichloropropene, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Trihalomethanes, Total	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1
Total BTEX	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*58 - 140*	*04/05/24 14:15*	*04/18/24 00:59*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 121*	*04/05/24 14:15*	*04/18/24 00:59*	*1*
Toluene-d8 (Surr)	*100*		*80 - 126*	*04/05/24 14:15*	*04/18/24 00:59*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 127*	*04/05/24 14:15*	*04/18/24 00:59*	*1*

Client Sample ID: POST-SO-SB2-30-04042024 — **Lab Sample ID: 280-189690-12**
Date Collected: 04/04/24 12:20 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 82.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Styrene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
cis-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
trans-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
N-Propylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
n-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
4-Chlorotoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,4-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Ethylene Dibromide	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
3-Chloro-1-propene	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,2-Dichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Vinyl acetate	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
4-Methyl-2-pentanone (MIBK)	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,3,5-Trimethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Bromobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Methylcyclohexane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Toluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Chlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Tetrahydrofuran	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Hexane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Cyclohexane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,2,4-Trichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Chlorodibromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Tetrachloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
sec-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,3-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
cis-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
trans-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1

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

Client Sample ID: POST-SO-SB2-30-04042024
Lab Sample ID: 280-189690-12
Date Collected: 04/04/24 12:20
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 82.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
m-Xylene & p-Xylene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,3-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Carbon tetrachloride	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,1-Dichloropropene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
2-Hexanone	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
2,2-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Ethyl ether	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,1,1,2-Tetrachloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Acetone	84	U	84		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Chloroform	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Benzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,1,1-Trichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Bromomethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Chloromethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Iodomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Dibromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Chlorobromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Chloroethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Vinyl chloride	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Methylene Chloride	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Carbon disulfide	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Bromoform	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Dichlorobromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,1-Dichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,1-Dichloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Trichlorofluoromethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Dichlorodifluoromethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,2-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
2-Butanone (MEK)	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,1,2-Trichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Trichloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Methyl acetate	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,1,2,2-Tetrachloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,2,3-Trichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Hexachlorobutadiene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Naphthalene	6.9	U	6.9		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
o-Xylene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
2-Chlorotoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,2-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,2,4-Trimethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,2,3-Trichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Ethyl methacrylate	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
tert-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Isopropylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
4-Isopropyltoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Xylenes, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1

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

Client Sample ID: POST-SO-SB2-30-04042024 — **Lab Sample ID: 280-189690-12**
Date Collected: 04/04/24 12:20 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 82.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
1,3-Dichloropropene, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Trihalomethanes, Total	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1
Total BTEX	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*58 - 140*	*04/05/24 14:15*	*04/18/24 01:18*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 121*	*04/05/24 14:15*	*04/18/24 01:18*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 14:15*	*04/18/24 01:18*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*04/05/24 14:15*	*04/18/24 01:18*	*1*

Client Sample ID: DUP-SO-1-04042024 — **Lab Sample ID: 280-189690-13**
Date Collected: 04/04/24 11:00 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 86.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Styrene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
cis-1,3-Dichloropropene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
trans-1,3-Dichloropropene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
N-Propylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
n-Butylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
4-Chlorotoluene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,4-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Ethylene Dibromide	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
3-Chloro-1-propene	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,2-Dichloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Vinyl acetate	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
4-Methyl-2-pentanone (MIBK)	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,3,5-Trimethylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Bromobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Methylcyclohexane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Toluene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Chlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Tetrahydrofuran	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Hexane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Cyclohexane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,2,4-Trichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Chlorodibromomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Tetrachloroethene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
sec-Butylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,3-Dichloropropane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
cis-1,2-Dichloroethene	2.7	U	2.7		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
trans-1,2-Dichloroethene	2.7	U	2.7		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Methyl tert-butyl ether	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
m-Xylene & p-Xylene	2.7	U	2.7		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,3-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Carbon tetrachloride	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,1-Dichloropropene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
2-Hexanone	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
2,2-Dichloropropane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1

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

Client Sample ID: DUP-SO-1-04042024
Lab Sample ID: 280-189690-13
Date Collected: 04/04/24 11:00
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 86.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,1,1,2-Tetrachloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Acetone	**220**		85		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Chloroform	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Benzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,1,1-Trichloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Bromomethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Chloromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Iodomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Dibromomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Chlorobromomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Chloroethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Vinyl chloride	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Methylene Chloride	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Carbon disulfide	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Bromoform	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Dichlorobromomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,1-Dichloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,1-Dichloroethene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Trichlorofluoromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Dichlorodifluoromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,2-Dichloropropane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
2-Butanone (MEK)	**30**		21		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,1,2-Trichloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Trichloroethene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Methyl acetate	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,1,2,2-Tetrachloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,2,3-Trichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Hexachlorobutadiene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Naphthalene	7.0	U	7.0		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
o-Xylene	2.7	U	2.7		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
2-Chlorotoluene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,2-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,2,4-Trimethylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,2,3-Trichloropropane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Ethyl methacrylate	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
tert-Butylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Isopropylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
4-Isopropyltoluene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Xylenes, Total	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,2-Dichloroethene, Total	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
1,3-Dichloropropene, Total	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Trihalomethanes, Total	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1
Total BTEX	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*58 - 140*	*04/05/24 14:15*	*04/18/24 01:38*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*04/05/24 14:15*	*04/18/24 01:38*	*1*

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

Client Sample ID: DUP-SO-1-04042024
Date Collected: 04/04/24 11:00
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-13
Matrix: Solid
Percent Solids: 86.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 14:15*	*04/18/24 01:38*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*04/05/24 14:15*	*04/18/24 01:38*	*1*

Client Sample ID: POST-SO-SB1-05-04042024
Date Collected: 04/04/24 13:25
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-14
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Styrene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
cis-1,3-Dichloropropene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
trans-1,3-Dichloropropene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
N-Propylbenzene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
n-Butylbenzene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
4-Chlorotoluene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
1,4-Dichlorobenzene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Ethylene Dibromide	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
3-Chloro-1-propene	11	U	11		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
1,2-Dichloroethane	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Vinyl acetate	11	U	11		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
4-Methyl-2-pentanone (MIBK)	21	U	21		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
1,3,5-Trimethylbenzene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Bromobenzene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Methylcyclohexane	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Toluene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Chlorobenzene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Tetrahydrofuran	21	U	21		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Hexane	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Cyclohexane	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
1,2,4-Trichlorobenzene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Chlorodibromomethane	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Tetrachloroethene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
sec-Butylbenzene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
1,3-Dichloropropane	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
cis-1,2-Dichloroethene	2.7	U	2.7		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
trans-1,2-Dichloroethene	2.7	U	2.7		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Methyl tert-butyl ether	21	U	21		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
m-Xylene & p-Xylene	2.7	U	2.7		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
1,3-Dichlorobenzene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Carbon tetrachloride	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
1,1-Dichloropropene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
2-Hexanone	21	U	21		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
2,2-Dichloropropane	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Ethyl ether	11	U	11		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
1,1,1,2-Tetrachloroethane	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Acetone	85	U	85		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Chloroform	11	U	11		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Benzene	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
1,1,1-Trichloroethane	5.3	U	5.3		ug/Kg		04/05/24 14:15	04/18/24 01:58	1
Bromomethane	11	U	11		ug/Kg		04/05/24 14:15	04/18/24 01:58	1

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

Client Sample ID: POST-SO-SB1-05-04042024
Lab Sample ID: 280-189690-14
Date Collected: 04/04/24 13:25
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Iodomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Dibromomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Chlorobromomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Chloroethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Vinyl chloride	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Methylene Chloride	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Carbon disulfide	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Bromoform	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Dichlorobromomethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
1,1-Dichloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
1,1-Dichloroethene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Trichlorofluoromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Dichlorodifluoromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
1,2-Dichloropropane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
2-Butanone (MEK)	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
1,1,2-Trichloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Trichloroethene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Methyl acetate	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
1,1,2,2-Tetrachloroethane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
1,2,3-Trichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Hexachlorobutadiene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Naphthalene	7.0	U	7.0		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
o-Xylene	2.7	U	2.7		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
2-Chlorotoluene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
1,2-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
1,2,4-Trimethylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
1,2,3-Trichloropropane	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Ethyl methacrylate	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
tert-Butylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Isopropylbenzene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
4-Isopropyltoluene	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Xylenes, Total	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
1,2-Dichloroethene, Total	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
1,3-Dichloropropene, Total	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Trihalomethanes, Total	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1
Total BTEX	5.3	U	5.3		ug/Kg	☼	04/05/24 14:15	04/18/24 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*58 - 140*	*04/05/24 14:15*	*04/18/24 01:58*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*04/05/24 14:15*	*04/18/24 01:58*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 14:15*	*04/18/24 01:58*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*04/05/24 14:15*	*04/18/24 01:58*	*1*

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

Client Sample ID: POST-SO-SB1-10-04042024
Lab Sample ID: 280-189690-15
Date Collected: 04/04/24 13:30
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 83.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Styrene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
cis-1,3-Dichloropropene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
trans-1,3-Dichloropropene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
N-Propylbenzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
n-Butylbenzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
4-Chlorotoluene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,4-Dichlorobenzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Ethylene Dibromide	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
3-Chloro-1-propene	13	U F1 F2	13		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,2-Dichloroethane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Vinyl acetate	13	U F1 F2	13		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
4-Methyl-2-pentanone (MIBK)	26	U F1 F2	26		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,3,5-Trimethylbenzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Bromobenzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Methylcyclohexane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Toluene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Chlorobenzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Tetrahydrofuran	26	U F1 F2	26		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Hexane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Cyclohexane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,2,4-Trichlorobenzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Chlorodibromomethane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Tetrachloroethene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
sec-Butylbenzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,3-Dichloropropane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
cis-1,2-Dichloroethene	3.2	U F1 F2	3.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
trans-1,2-Dichloroethene	3.2	U F1 F2	3.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Methyl tert-butyl ether	26	U F1 F2	26		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
m-Xylene & p-Xylene	3.2	U F1 F2	3.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,3-Dichlorobenzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Carbon tetrachloride	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,1-Dichloropropene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
2-Hexanone	26	U F1 F2	26		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
2,2-Dichloropropane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Ethyl ether	13	U F1 F2	13		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,1,1,2-Tetrachloroethane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Acetone	100	U F1 F2	100		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Chloroform	13	U F1 F2	13		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Benzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,1,1-Trichloroethane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Bromomethane	13	U F1 F2	13		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Chloromethane	13	U F2	13		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Iodomethane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Dibromomethane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Chlorobromomethane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Chloroethane	13	U F1 F2	13		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Vinyl chloride	6.4	U F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Methylene Chloride	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1

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

Client Sample ID: POST-SO-SB1-10-04042024 — **Lab Sample ID: 280-189690-15**
Date Collected: 04/04/24 13:30 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 83.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	6.4	U F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Bromoform	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Dichlorobromomethane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,1-Dichloroethane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,1-Dichloroethene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Trichlorofluoromethane	13	U F1 F2	13		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Dichlorodifluoromethane	13	U F1 F2	13		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	26	U F1 F2	26		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,2-Dichloropropane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
2-Butanone (MEK)	26	U F2	26		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,1,2-Trichloroethane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Trichloroethene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Methyl acetate	13	U F1 F2	13		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,1,2,2-Tetrachloroethane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,2,3-Trichlorobenzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Hexachlorobutadiene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Naphthalene	8.5	U F1 F2	8.5		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
o-Xylene	3.2	U F1 F2	3.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
2-Chlorotoluene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,2-Dichlorobenzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,2,4-Trimethylbenzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,2-Dibromo-3-Chloropropane	13	U F1 F2	13		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,2,3-Trichloropropane	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Ethyl methacrylate	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
tert-Butylbenzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Isopropylbenzene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
4-Isopropyltoluene	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Xylenes, Total	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,2-Dichloroethene, Total	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
1,3-Dichloropropene, Total	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Trihalomethanes, Total	13	U F1 F2	13		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1
Total BTEX	6.4	U F1 F2	6.4		ug/Kg	☼	04/05/24 14:15	04/18/24 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*58 - 140*	*04/05/24 14:15*	*04/18/24 02:17*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*04/05/24 14:15*	*04/18/24 02:17*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 14:15*	*04/18/24 02:17*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*04/05/24 14:15*	*04/18/24 02:17*	*1*

Client Sample ID: POST-SO-SB1-15-04042024 — **Lab Sample ID: 280-189690-16**
Date Collected: 04/04/24 13:35 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 86.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Styrene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
cis-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
trans-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
N-Propylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
n-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
4-Chlorotoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1

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

Client Sample ID: POST-SO-SB1-15-04042024
Date Collected: 04/04/24 13:35
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-16
Matrix: Solid
Percent Solids: 86.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Ethylene Dibromide	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
3-Chloro-1-propene	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,2-Dichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Vinyl acetate	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
4-Methyl-2-pentanone (MIBK)	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,3,5-Trimethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Bromobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Methylcyclohexane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Toluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Chlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Tetrahydrofuran	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Hexane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Cyclohexane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,2,4-Trichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Chlorodibromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Tetrachloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
sec-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,3-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
cis-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
trans-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Methyl tert-butyl ether	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
m-Xylene & p-Xylene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,3-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Carbon tetrachloride	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,1-Dichloropropene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
2-Hexanone	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
2,2-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Ethyl ether	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,1,1,2-Tetrachloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Acetone	83	U	83		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Chloroform	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Benzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,1,1-Trichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Bromomethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Chloromethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Iodomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Dibromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Chlorobromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Chloroethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Vinyl chloride	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Methylene Chloride	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Carbon disulfide	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Bromoform	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Dichlorobromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,1-Dichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,1-Dichloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Trichlorofluoromethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Dichlorodifluoromethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1

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

Client Sample ID: POST-SO-SB1-15-04042024 — **Lab Sample ID: 280-189690-16**
Date Collected: 04/04/24 13:35 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 86.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,2-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
2-Butanone (MEK)	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,1,2-Trichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Trichloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Methyl acetate	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,1,2,2-Tetrachloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,2,3-Trichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Hexachlorobutadiene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Naphthalene	6.8	U	6.8		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
o-Xylene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
2-Chlorotoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,2-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,2,4-Trimethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,2,3-Trichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Ethyl methacrylate	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
tert-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Isopropylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
4-Isopropyltoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Xylenes, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,2-Dichloroethene, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
1,3-Dichloropropene, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Trihalomethanes, Total	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1
Total BTEX	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*58 - 140*	*04/05/24 14:15*	*04/18/24 02:37*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*04/05/24 14:15*	*04/18/24 02:37*	*1*
Toluene-d8 (Surr)	*98*		*80 - 126*	*04/05/24 14:15*	*04/18/24 02:37*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 127*	*04/05/24 14:15*	*04/18/24 02:37*	*1*

Client Sample ID: POST-SO-SB1-20-04042024 — **Lab Sample ID: 280-189690-17**
Date Collected: 04/04/24 13:40 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 85.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Styrene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
cis-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
trans-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
N-Propylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
n-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
4-Chlorotoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,4-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Ethylene Dibromide	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
3-Chloro-1-propene	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,2-Dichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Vinyl acetate	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
4-Methyl-2-pentanone (MIBK)	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,3,5-Trimethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1

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

Client Sample ID: POST-SO-SB1-20-04042024
Lab Sample ID: 280-189690-17
Date Collected: 04/04/24 13:40
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 85.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Methylcyclohexane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Toluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Chlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Tetrahydrofuran	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Hexane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Cyclohexane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,2,4-Trichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Chlorodibromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Tetrachloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
sec-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,3-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
cis-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
trans-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Methyl tert-butyl ether	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
m-Xylene & p-Xylene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,3-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Carbon tetrachloride	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,1-Dichloropropene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
2-Hexanone	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
2,2-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Ethyl ether	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,1,1,2-Tetrachloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Acetone	**120**		83		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Chloroform	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Benzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,1,1-Trichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Bromomethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Chloromethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Iodomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Dibromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Chlorobromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Chloroethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Vinyl chloride	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Methylene Chloride	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Carbon disulfide	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Bromoform	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Dichlorobromomethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,1-Dichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,1-Dichloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Trichlorofluoromethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Dichlorodifluoromethane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,2-Dichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
2-Butanone (MEK)	21	U	21		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,1,2-Trichloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Trichloroethene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Methyl acetate	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,1,2,2-Tetrachloroethane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1

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

Client Sample ID: POST-SO-SB1-20-04042024 — **Lab Sample ID: 280-189690-17**
Date Collected: 04/04/24 13:40 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 85.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Hexachlorobutadiene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Naphthalene	6.8	U	6.8		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
o-Xylene	2.6	U	2.6		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
2-Chlorotoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,2-Dichlorobenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,2,4-Trimethylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,2,3-Trichloropropane	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Ethyl methacrylate	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
tert-Butylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Isopropylbenzene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
4-Isopropyltoluene	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Xylenes, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,2-Dichloroethene, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
1,3-Dichloropropene, Total	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Trihalomethanes, Total	10	U	10		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1
Total BTEX	5.2	U	5.2		ug/Kg	☼	04/05/24 14:15	04/18/24 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*58 - 140*	*04/05/24 14:15*	*04/18/24 02:57*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*04/05/24 14:15*	*04/18/24 02:57*	*1*
Toluene-d8 (Surr)	*98*		*80 - 126*	*04/05/24 14:15*	*04/18/24 02:57*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*04/05/24 14:15*	*04/18/24 02:57*	*1*

Client Sample ID: POST-SO-SB3-05-04042024 — **Lab Sample ID: 280-189690-18**
Date Collected: 04/04/24 15:00 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 79.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Styrene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
cis-1,3-Dichloropropene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
trans-1,3-Dichloropropene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
N-Propylbenzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
n-Butylbenzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
4-Chlorotoluene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,4-Dichlorobenzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Ethylene Dibromide	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
3-Chloro-1-propene	13	U	13		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,2-Dichloroethane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Vinyl acetate	13	U	13		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
4-Methyl-2-pentanone (MIBK)	26	U	26		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,3,5-Trimethylbenzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Bromobenzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Methylcyclohexane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Toluene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Chlorobenzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Tetrahydrofuran	26	U	26		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Hexane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Cyclohexane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1

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

Client Sample ID: POST-SO-SB3-05-04042024
Date Collected: 04/04/24 15:00
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-18
Matrix: Solid
Percent Solids: 79.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Chlorodibromomethane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Tetrachloroethene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
sec-Butylbenzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,3-Dichloropropane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
cis-1,2-Dichloroethene	3.3	U	3.3		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
trans-1,2-Dichloroethene	3.3	U	3.3		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Methyl tert-butyl ether	26	U	26		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
m-Xylene & p-Xylene	3.3	U	3.3		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,3-Dichlorobenzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Carbon tetrachloride	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,1-Dichloropropene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
2-Hexanone	26	U	26		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
2,2-Dichloropropane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Ethyl ether	13	U	13		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,1,1,2-Tetrachloroethane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Acetone	100	U	100		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Chloroform	13	U	13		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Benzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,1,1-Trichloroethane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Bromomethane	13	U	13		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Chloromethane	13	U	13		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Iodomethane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Dibromomethane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Chlorobromomethane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Chloroethane	13	U	13		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Vinyl chloride	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Methylene Chloride	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Carbon disulfide	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Bromoform	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Dichlorobromomethane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,1-Dichloroethane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,1-Dichloroethene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Trichlorofluoromethane	13	U	13		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Dichlorodifluoromethane	13	U	13		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	26	U	26		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,2-Dichloropropane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
2-Butanone (MEK)	26	U	26		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,1,2-Trichloroethane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Trichloroethene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Methyl acetate	13	U	13		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,1,2,2-Tetrachloroethane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,2,3-Trichlorobenzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Hexachlorobutadiene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Naphthalene	8.6	U	8.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
o-Xylene	3.3	U	3.3		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
2-Chlorotoluene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,2-Dichlorobenzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,2,4-Trimethylbenzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1

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

Client Sample ID: POST-SO-SB3-05-04042024 — **Lab Sample ID: 280-189690-18**
Date Collected: 04/04/24 15:00 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 79.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	13	U	13		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,2,3-Trichloropropane	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Ethyl methacrylate	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
tert-Butylbenzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Isopropylbenzene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
4-Isopropyltoluene	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Xylenes, Total	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,2-Dichloroethene, Total	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
1,3-Dichloropropene, Total	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Trihalomethanes, Total	13	U	13		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1
Total BTEX	6.6	U	6.6		ug/Kg	☼	04/05/24 14:15	04/18/24 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*58 - 140*	*04/05/24 14:15*	*04/18/24 03:16*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*04/05/24 14:15*	*04/18/24 03:16*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 14:15*	*04/18/24 03:16*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*04/05/24 14:15*	*04/18/24 03:16*	*1*

Client Sample ID: POST-SO-SB3-10-04042024 — **Lab Sample ID: 280-189690-19**
Date Collected: 04/04/24 15:05 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 84.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Styrene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
cis-1,3-Dichloropropene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
trans-1,3-Dichloropropene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
N-Propylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
n-Butylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
4-Chlorotoluene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,4-Dichlorobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Ethylene Dibromide	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
3-Chloro-1-propene	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,2-Dichloroethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Vinyl acetate	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
4-Methyl-2-pentanone (MIBK)	22	U	22		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,3,5-Trimethylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Bromobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Methylcyclohexane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Toluene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Chlorobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Tetrahydrofuran	22	U	22		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Hexane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Cyclohexane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,2,4-Trichlorobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Chlorodibromomethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Tetrachloroethene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
sec-Butylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,3-Dichloropropane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
cis-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
trans-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1

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

Client Sample ID: POST-SO-SB3-10-04042024
Date Collected: 04/04/24 15:05
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-19
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	22	U	22		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
m-Xylene & p-Xylene	2.8	U	2.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,3-Dichlorobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Carbon tetrachloride	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,1-Dichloropropene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
2-Hexanone	22	U	22		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
2,2-Dichloropropane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Ethyl ether	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,1,1,2-Tetrachloroethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Acetone	88	U	88		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Chloroform	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Benzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,1,1-Trichloroethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Bromomethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Chloromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Iodomethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Dibromomethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Chlorobromomethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Chloroethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Vinyl chloride	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Methylene Chloride	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Carbon disulfide	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Bromoform	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Dichlorobromomethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,1-Dichloroethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,1-Dichloroethene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Trichlorofluoromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Dichlorodifluoromethane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,2-Dichloropropane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
2-Butanone (MEK)	22	U	22		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,1,2-Trichloroethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Trichloroethene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Methyl acetate	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,1,2,2-Tetrachloroethane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,2,3-Trichlorobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Hexachlorobutadiene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Naphthalene	7.3	U	7.3		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
o-Xylene	2.8	U	2.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
2-Chlorotoluene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,2-Dichlorobenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,2,4-Trimethylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,2,3-Trichloropropane	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Ethyl methacrylate	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
tert-Butylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Isopropylbenzene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
4-Isopropyltoluene	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Xylenes, Total	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1

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

Client Sample ID: POST-SO-SB3-10-04042024 — **Lab Sample ID: 280-189690-19**
Date Collected: 04/04/24 15:05 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 84.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
1,3-Dichloropropene, Total	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Trihalomethanes, Total	11	U	11		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1
Total BTEX	5.5	U	5.5		ug/Kg	☼	04/05/24 14:15	04/18/24 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*58 - 140*	*04/05/24 14:15*	*04/18/24 03:36*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*04/05/24 14:15*	*04/18/24 03:36*	*1*
Toluene-d8 (Surr)	*97*		*80 - 126*	*04/05/24 14:15*	*04/18/24 03:36*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*04/05/24 14:15*	*04/18/24 03:36*	*1*

Client Sample ID: POST-SO-SB3-15-04042024 — **Lab Sample ID: 280-189690-20**
Date Collected: 04/04/24 15:10 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 85.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Styrene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
cis-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
trans-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
N-Propylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
n-Butylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
4-Chlorotoluene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,4-Dichlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Ethylene Dibromide	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
3-Chloro-1-propene	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,2-Dichloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Vinyl acetate	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,3,5-Trimethylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Bromobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Methylcyclohexane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Toluene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Chlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Tetrahydrofuran	23	U	23		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Hexane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Cyclohexane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,2,4-Trichlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Chlorodibromomethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Tetrachloroethene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
sec-Butylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,3-Dichloropropane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Methyl tert-butyl ether	23	U	23		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
m-Xylene & p-Xylene	2.9	U	2.9		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,3-Dichlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Carbon tetrachloride	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,1-Dichloropropene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
2-Hexanone	23	U	23		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
2,2-Dichloropropane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1

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

Client Sample ID: POST-SO-SB3-15-04042024
Date Collected: 04/04/24 15:10
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-20
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,1,1,2-Tetrachloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Acetone	93	U	93		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Chloroform	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Benzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,1,1-Trichloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Bromomethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Chloromethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Iodomethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Dibromomethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Chlorobromomethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Chloroethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Vinyl chloride	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Methylene Chloride	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Carbon disulfide	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Bromoform	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Dichlorobromomethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,1-Dichloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,1-Dichloroethene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Trichlorofluoromethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Dichlorodifluoromethane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	23		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,2-Dichloropropane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,1,2-Trichloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Trichloroethene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Methyl acetate	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,1,2,2-Tetrachloroethane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,2,3-Trichlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Hexachlorobutadiene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Naphthalene	7.7	U	7.7		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
o-Xylene	2.9	U	2.9		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
2-Chlorotoluene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,2-Dichlorobenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,2,4-Trimethylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,2-Dibromo-3-Chloropropane	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,2,3-Trichloropropane	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Ethyl methacrylate	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
tert-Butylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Isopropylbenzene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
4-Isopropyltoluene	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Xylenes, Total	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,2-Dichloroethene, Total	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
1,3-Dichloropropene, Total	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Trihalomethanes, Total	12	U	12		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1
Total BTEX	5.8	U	5.8		ug/Kg	☼	04/05/24 14:15	04/18/24 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*58 - 140*	*04/05/24 14:15*	*04/18/24 03:55*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*04/05/24 14:15*	*04/18/24 03:55*	*1*

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

Client Sample ID: POST-SO-SB3-15-04042024
Date Collected: 04/04/24 15:10
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-20
Matrix: Solid
Percent Solids: 85.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*101*		*80 - 126*	*04/05/24 14:15*	*04/18/24 03:55*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*04/05/24 14:15*	*04/18/24 03:55*	*1*

Client Sample ID: POST-SO-SB3-20-04042024
Date Collected: 04/04/24 15:15
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-21
Matrix: Solid
Percent Solids: 82.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Styrene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
cis-1,3-Dichloropropene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
trans-1,3-Dichloropropene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
N-Propylbenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
n-Butylbenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
4-Chlorotoluene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
1,4-Dichlorobenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Ethylene Dibromide	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
3-Chloro-1-propene	12	U	12		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
1,2-Dichloroethane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Vinyl acetate	12	U	12		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
4-Methyl-2-pentanone (MIBK)	24	U	24		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
1,3,5-Trimethylbenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Bromobenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Methylcyclohexane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Toluene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Chlorobenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Tetrahydrofuran	24	U	24		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Hexane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Cyclohexane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
1,2,4-Trichlorobenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Chlorodibromomethane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Tetrachloroethene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
sec-Butylbenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
1,3-Dichloropropane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Methyl tert-butyl ether	24	U	24		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
m-Xylene & p-Xylene	2.9	U	2.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
1,3-Dichlorobenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Carbon tetrachloride	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
1,1-Dichloropropene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
2-Hexanone	24	U	24		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
2,2-Dichloropropane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Ethyl ether	12	U	12		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
1,1,1,2-Tetrachloroethane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Acetone	94	U	94		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Chloroform	12	U	12		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Benzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
1,1,1-Trichloroethane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 04:15	1
Bromomethane	12	U	12		ug/Kg		04/05/24 20:46	04/18/24 04:15	1

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

Client Sample ID: POST-SO-SB3-20-04042024
Lab Sample ID: 280-189690-21
Date Collected: 04/04/24 15:15
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 82.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Iodomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Dibromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Chlorobromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Chloroethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Vinyl chloride	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Methylene Chloride	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Carbon disulfide	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Bromoform	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Dichlorobromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
1,1-Dichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
1,1-Dichloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Trichlorofluoromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Dichlorodifluoromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
1,2-Dichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
2-Butanone (MEK)	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
1,1,2-Trichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Trichloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Methyl acetate	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
1,1,2,2-Tetrachloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
1,2,3-Trichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Hexachlorobutadiene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Naphthalene	7.8	U	7.8		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
o-Xylene	2.9	U	2.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
2-Chlorotoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
1,2-Dichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
1,2,4-Trimethylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
1,2-Dibromo-3-Chloropropane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
1,2,3-Trichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Ethyl methacrylate	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
tert-Butylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Isopropylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
4-Isopropyltoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Xylenes, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
1,2-Dichloroethene, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
1,3-Dichloropropene, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Trihalomethanes, Total	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1
Total BTEX	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*	*04/05/24 20:46*	*04/18/24 04:15*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*04/05/24 20:46*	*04/18/24 04:15*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 20:46*	*04/18/24 04:15*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*04/05/24 20:46*	*04/18/24 04:15*	*1*

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

Client Sample ID: POST-SO-SB3-25-04042024
Date Collected: 04/04/24 15:20
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-22
Matrix: Solid
Percent Solids: 90.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Styrene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
cis-1,3-Dichloropropene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
trans-1,3-Dichloropropene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
N-Propylbenzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
n-Butylbenzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
4-Chlorotoluene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,4-Dichlorobenzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Ethylene Dibromide	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
3-Chloro-1-propene	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,2-Dichloroethane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Vinyl acetate	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
4-Methyl-2-pentanone (MIBK)	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,3,5-Trimethylbenzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Bromobenzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Methylcyclohexane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Toluene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Chlorobenzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Tetrahydrofuran	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Hexane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Cyclohexane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,2,4-Trichlorobenzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Chlorodibromomethane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Tetrachloroethene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
sec-Butylbenzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,3-Dichloropropane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
cis-1,2-Dichloroethene	3.0	U	3.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
trans-1,2-Dichloroethene	3.0	U	3.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Methyl tert-butyl ether	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
m-Xylene & p-Xylene	3.0	U	3.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,3-Dichlorobenzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Carbon tetrachloride	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,1-Dichloropropene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
2-Hexanone	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
2,2-Dichloropropane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Ethyl ether	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,1,1,2-Tetrachloroethane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Acetone	96	U	96		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Chloroform	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Benzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,1,1-Trichloroethane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Bromomethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Chloromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Iodomethane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Dibromomethane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Chlorobromomethane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Chloroethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Vinyl chloride	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Methylene Chloride	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1

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

Client Sample ID: POST-SO-SB3-25-04042024
Date Collected: 04/04/24 15:20
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-22
Matrix: Solid
Percent Solids: 90.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Bromoform	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Dichlorobromomethane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,1-Dichloroethane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,1-Dichloroethene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Trichlorofluoromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Dichlorodifluoromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,2-Dichloropropane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
2-Butanone (MEK)	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,1,2-Trichloroethane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Trichloroethene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Methyl acetate	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,1,2,2-Tetrachloroethane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,2,3-Trichlorobenzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Hexachlorobutadiene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Naphthalene	7.9	U	7.9		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
o-Xylene	3.0	U	3.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
2-Chlorotoluene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,2-Dichlorobenzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,2,4-Trimethylbenzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,2-Dibromo-3-Chloropropane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,2,3-Trichloropropane	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Ethyl methacrylate	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
tert-Butylbenzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Isopropylbenzene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
4-Isopropyltoluene	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Xylenes, Total	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,2-Dichloroethene, Total	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
1,3-Dichloropropene, Total	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Trihalomethanes, Total	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1
Total BTEX	6.0	U	6.0		ug/Kg	☼	04/05/24 20:46	04/18/24 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*58 - 140*	*04/05/24 20:46*	*04/18/24 04:35*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*04/05/24 20:46*	*04/18/24 04:35*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 20:46*	*04/18/24 04:35*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*04/05/24 20:46*	*04/18/24 04:35*	*1*

Client Sample ID: POST-SO-SB3-30-04042024
Date Collected: 04/04/24 15:25
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-23
Matrix: Solid
Percent Solids: 78.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Styrene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
cis-1,3-Dichloropropene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
trans-1,3-Dichloropropene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
N-Propylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
n-Butylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
4-Chlorotoluene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1

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

Client Sample ID: POST-SO-SB3-30-04042024
Lab Sample ID: 280-189690-23
Date Collected: 04/04/24 15:25
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 78.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Ethylene Dibromide	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
3-Chloro-1-propene	13	U	13		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,2-Dichloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Vinyl acetate	13	U	13		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
4-Methyl-2-pentanone (MIBK)	26	U	26		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,3,5-Trimethylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Bromobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Methylcyclohexane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Toluene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Chlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Tetrahydrofuran	26	U	26		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Hexane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Cyclohexane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,2,4-Trichlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Chlorodibromomethane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Tetrachloroethene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
sec-Butylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,3-Dichloropropane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
cis-1,2-Dichloroethene	3.2	U	3.2		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
trans-1,2-Dichloroethene	3.2	U	3.2		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Methyl tert-butyl ether	26	U	26		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
m-Xylene & p-Xylene	3.2	U	3.2		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,3-Dichlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Carbon tetrachloride	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,1-Dichloropropene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
2-Hexanone	26	U	26		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
2,2-Dichloropropane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Ethyl ether	13	U	13		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,1,1,2-Tetrachloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Acetone	100	U	100		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Chloroform	13	U	13		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Benzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,1,1-Trichloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Bromomethane	13	U	13		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Chloromethane	13	U	13		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Iodomethane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Dibromomethane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Chlorobromomethane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Chloroethane	13	U	13		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Vinyl chloride	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Methylene Chloride	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Carbon disulfide	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Bromoform	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Dichlorobromomethane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,1-Dichloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,1-Dichloroethene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Trichlorofluoromethane	13	U	13		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Dichlorodifluoromethane	13	U	13		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1

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

Client Sample ID: POST-SO-SB3-30-04042024 — **Lab Sample ID: 280-189690-23**
Date Collected: 04/04/24 15:25 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 78.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	26	U	26		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,2-Dichloropropane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
2-Butanone (MEK)	26	U	26		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,1,2-Trichloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Trichloroethene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Methyl acetate	13	U	13		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,1,2,2-Tetrachloroethane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,2,3-Trichlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Hexachlorobutadiene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Naphthalene	8.5	U	8.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
o-Xylene	3.2	U	3.2		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
2-Chlorotoluene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,2-Dichlorobenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,2,4-Trimethylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,2-Dibromo-3-Chloropropane	13	U	13		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,2,3-Trichloropropane	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Ethyl methacrylate	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
tert-Butylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Isopropylbenzene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
4-Isopropyltoluene	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Xylenes, Total	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,2-Dichloroethene, Total	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
1,3-Dichloropropene, Total	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Trihalomethanes, Total	13	U	13		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1
Total BTEX	6.5	U	6.5		ug/Kg	☼	04/05/24 20:46	04/18/24 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*58 - 140*	*04/05/24 20:46*	*04/18/24 04:54*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*04/05/24 20:46*	*04/18/24 04:54*	*1*
Toluene-d8 (Surr)	*100*		*80 - 126*	*04/05/24 20:46*	*04/18/24 04:54*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*04/05/24 20:46*	*04/18/24 04:54*	*1*

Client Sample ID: POST-SO-SB3-35-04042024 — **Lab Sample ID: 280-189690-24**
Date Collected: 04/04/24 15:30 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 86.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Styrene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
cis-1,3-Dichloropropene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
trans-1,3-Dichloropropene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
N-Propylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
n-Butylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
4-Chlorotoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,4-Dichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Ethylene Dibromide	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
3-Chloro-1-propene	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,2-Dichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Vinyl acetate	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
4-Methyl-2-pentanone (MIBK)	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,3,5-Trimethylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1

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

Client Sample ID: POST-SO-SB3-35-04042024
Lab Sample ID: 280-189690-24
Date Collected: 04/04/24 15:30
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 86.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Methylcyclohexane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Toluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Chlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Tetrahydrofuran	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Hexane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Cyclohexane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,2,4-Trichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Chlorodibromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Tetrachloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
sec-Butylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,3-Dichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
cis-1,2-Dichloroethene	3.0	U	3.0		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
trans-1,2-Dichloroethene	3.0	U	3.0		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Methyl tert-butyl ether	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
m-Xylene & p-Xylene	3.0	U	3.0		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,3-Dichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Carbon tetrachloride	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,1-Dichloropropene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
2-Hexanone	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
2,2-Dichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Ethyl ether	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,1,1,2-Tetrachloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Acetone	95	U	95		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Chloroform	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Benzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,1,1-Trichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Bromomethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Chloromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Iodomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Dibromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Chlorobromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Chloroethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Vinyl chloride	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Methylene Chloride	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Carbon disulfide	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Bromoform	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Dichlorobromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,1-Dichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,1-Dichloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Trichlorofluoromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Dichlorodifluoromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,2-Dichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
2-Butanone (MEK)	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,1,2-Trichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Trichloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Methyl acetate	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,1,2,2-Tetrachloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1

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

Client Sample ID: POST-SO-SB3-35-04042024 — **Lab Sample ID: 280-189690-24**
Date Collected: 04/04/24 15:30 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 86.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Hexachlorobutadiene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Naphthalene	7.8	U	7.8		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
o-Xylene	3.0	U	3.0		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
2-Chlorotoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,2-Dichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,2,4-Trimethylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,2-Dibromo-3-Chloropropane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,2,3-Trichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Ethyl methacrylate	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
tert-Butylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Isopropylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
4-Isopropyltoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Xylenes, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,2-Dichloroethene, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
1,3-Dichloropropene, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Trihalomethanes, Total	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1
Total BTEX	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*58 - 140*	*04/05/24 20:46*	*04/18/24 05:14*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 121*	*04/05/24 20:46*	*04/18/24 05:14*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 20:46*	*04/18/24 05:14*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*04/05/24 20:46*	*04/18/24 05:14*	*1*

Client Sample ID: POST-SO-SB3-40-04042024 — **Lab Sample ID: 280-189690-25**
Date Collected: 04/04/24 15:35 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 85.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Styrene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
cis-1,3-Dichloropropene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
trans-1,3-Dichloropropene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
N-Propylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
n-Butylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
4-Chlorotoluene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,4-Dichlorobenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Ethylene Dibromide	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
3-Chloro-1-propene	11	U	11		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,2-Dichloroethane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Vinyl acetate	11	U	11		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
4-Methyl-2-pentanone (MIBK)	22	U	22		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,3,5-Trimethylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Bromobenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Methylcyclohexane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Toluene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Chlorobenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Tetrahydrofuran	22	U	22		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Hexane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Cyclohexane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1

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

Client Sample ID: POST-SO-SB3-40-04042024
Date Collected: 04/04/24 15:35
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-25
Matrix: Solid
Percent Solids: 85.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Chlorodibromomethane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Tetrachloroethene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
sec-Butylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,3-Dichloropropane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
cis-1,2-Dichloroethene	2.7	U	2.7		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
trans-1,2-Dichloroethene	2.7	U	2.7		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Methyl tert-butyl ether	22	U	22		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
m-Xylene & p-Xylene	2.7	U	2.7		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,3-Dichlorobenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Carbon tetrachloride	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,1-Dichloropropene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
2-Hexanone	22	U	22		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
2,2-Dichloropropane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Ethyl ether	11	U	11		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,1,1,2-Tetrachloroethane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Acetone	86	U	86		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Chloroform	11	U	11		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Benzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,1,1-Trichloroethane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Bromomethane	11	U	11		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Chloromethane	11	U	11		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Iodomethane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Dibromomethane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Chlorobromomethane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Chloroethane	11	U	11		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Vinyl chloride	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Methylene Chloride	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Carbon disulfide	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Bromoform	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Dichlorobromomethane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,1-Dichloroethane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,1-Dichloroethene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Trichlorofluoromethane	11	U	11		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Dichlorodifluoromethane	11	U	11		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,2-Dichloropropane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
2-Butanone (MEK)	22	U	22		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,1,2-Trichloroethane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Trichloroethene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Methyl acetate	11	U	11		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,1,2,2-Tetrachloroethane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,2,3-Trichlorobenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Hexachlorobutadiene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Naphthalene	7.1	U	7.1		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
o-Xylene	2.7	U	2.7		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
2-Chlorotoluene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,2-Dichlorobenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,2,4-Trimethylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1

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

Client Sample ID: POST-SO-SB3-40-04042024
Lab Sample ID: 280-189690-25
Date Collected: 04/04/24 15:35
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 85.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,2,3-Trichloropropane	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Ethyl methacrylate	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
tert-Butylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Isopropylbenzene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
4-Isopropyltoluene	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Xylenes, Total	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,2-Dichloroethene, Total	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
1,3-Dichloropropene, Total	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Trihalomethanes, Total	11	U	11		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1
Total BTEX	5.4	U	5.4		ug/Kg	☼	04/05/24 20:46	04/18/24 05:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*58 - 140*	*04/05/24 20:46*	*04/18/24 05:33*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*04/05/24 20:46*	*04/18/24 05:33*	*1*
Toluene-d8 (Surr)	*101*		*80 - 126*	*04/05/24 20:46*	*04/18/24 05:33*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*04/05/24 20:46*	*04/18/24 05:33*	*1*

Client Sample ID: POST-SO-SB3-45-04042024
Lab Sample ID: 280-189690-26
Date Collected: 04/04/24 15:40
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 87.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Styrene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
cis-1,3-Dichloropropene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
trans-1,3-Dichloropropene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
N-Propylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
n-Butylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
4-Chlorotoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,4-Dichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Ethylene Dibromide	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
3-Chloro-1-propene	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,2-Dichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Vinyl acetate	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
4-Methyl-2-pentanone (MIBK)	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,3,5-Trimethylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Bromobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Methylcyclohexane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Toluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Chlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Tetrahydrofuran	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Hexane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Cyclohexane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,2,4-Trichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Chlorodibromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Tetrachloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
sec-Butylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,3-Dichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1

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

Client Sample ID: POST-SO-SB3-45-04042024
Date Collected: 04/04/24 15:40
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-26
Matrix: Solid
Percent Solids: 87.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
m-Xylene & p-Xylene	2.9	U	2.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,3-Dichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Carbon tetrachloride	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,1-Dichloropropene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
2-Hexanone	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
2,2-Dichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Ethyl ether	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,1,1,2-Tetrachloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Acetone	94	U	94		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Chloroform	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Benzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,1,1-Trichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Bromomethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Chloromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Iodomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Dibromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Chlorobromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Chloroethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Vinyl chloride	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Methylene Chloride	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Carbon disulfide	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Bromoform	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Dichlorobromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,1-Dichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,1-Dichloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Trichlorofluoromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Dichlorodifluoromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,2-Dichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
2-Butanone (MEK)	24	U	24		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,1,2-Trichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Trichloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Methyl acetate	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,1,2,2-Tetrachloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,2,3-Trichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Hexachlorobutadiene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Naphthalene	7.8	U	7.8		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
o-Xylene	2.9	U	2.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
2-Chlorotoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,2-Dichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,2,4-Trimethylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,2-Dibromo-3-Chloropropane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,2,3-Trichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Ethyl methacrylate	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
tert-Butylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Isopropylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
4-Isopropyltoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Xylenes, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1

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

Client Sample ID: POST-SO-SB3-45-04042024 — **Lab Sample ID: 280-189690-26**
Date Collected: 04/04/24 15:40 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 87.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
1,3-Dichloropropene, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Trihalomethanes, Total	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1
Total BTEX	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*	*04/05/24 20:46*	*04/18/24 05:53*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*	*04/05/24 20:46*	*04/18/24 05:53*	*1*
Toluene-d8 (Surr)	*100*		*80 - 126*	*04/05/24 20:46*	*04/18/24 05:53*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*04/05/24 20:46*	*04/18/24 05:53*	*1*

Client Sample ID: POST-SO-SB3-50-04042024 — **Lab Sample ID: 280-189690-27**
Date Collected: 04/04/24 15:45 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 83.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Styrene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
cis-1,3-Dichloropropene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
trans-1,3-Dichloropropene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
N-Propylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
n-Butylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
4-Chlorotoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,4-Dichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Ethylene Dibromide	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
3-Chloro-1-propene	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,2-Dichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Vinyl acetate	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,3,5-Trimethylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Bromobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Methylcyclohexane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Toluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Chlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Tetrahydrofuran	23	U	23		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Hexane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Cyclohexane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,2,4-Trichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Chlorodibromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Tetrachloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
sec-Butylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,3-Dichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Methyl tert-butyl ether	23	U	23		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
m-Xylene & p-Xylene	2.9	U	2.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,3-Dichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Carbon tetrachloride	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,1-Dichloropropene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
2-Hexanone	23	U	23		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
2,2-Dichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1

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

Client Sample ID: POST-SO-SB3-50-04042024
Date Collected: 04/04/24 15:45
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-27
Matrix: Solid
Percent Solids: 83.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,1,1,2-Tetrachloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Acetone	94	U	94		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Chloroform	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Benzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,1,1-Trichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Bromomethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Chloromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Iodomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Dibromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Chlorobromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Chloroethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Vinyl chloride	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Methylene Chloride	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Carbon disulfide	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Bromoform	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Dichlorobromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,1-Dichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,1-Dichloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Trichlorofluoromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Dichlorodifluoromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	23		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,2-Dichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,1,2-Trichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Trichloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Methyl acetate	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,1,2,2-Tetrachloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,2,3-Trichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Hexachlorobutadiene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Naphthalene	7.7	U	7.7		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
o-Xylene	2.9	U	2.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
2-Chlorotoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,2-Dichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,2,4-Trimethylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,2-Dibromo-3-Chloropropane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,2,3-Trichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Ethyl methacrylate	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
tert-Butylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Isopropylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
4-Isopropyltoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Xylenes, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,2-Dichloroethene, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
1,3-Dichloropropene, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Trihalomethanes, Total	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1
Total BTEX	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*	*04/05/24 20:46*	*04/18/24 06:13*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*04/05/24 20:46*	*04/18/24 06:13*	*1*

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

Client Sample ID: POST-SO-SB3-50-04042024
Date Collected: 04/04/24 15:45
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-27
Matrix: Solid
Percent Solids: 83.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*101*		*80 - 126*	*04/05/24 20:46*	*04/18/24 06:13*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*04/05/24 20:46*	*04/18/24 06:13*	*1*

Client Sample ID: DUP-SO-2-04042024
Date Collected: 04/04/24 14:00
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-28
Matrix: Solid
Percent Solids: 82.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Styrene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
cis-1,3-Dichloropropene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
trans-1,3-Dichloropropene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
N-Propylbenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
n-Butylbenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
4-Chlorotoluene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
1,4-Dichlorobenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Ethylene Dibromide	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
3-Chloro-1-propene	12	U	12		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
1,2-Dichloroethane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Vinyl acetate	12	U	12		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
1,3,5-Trimethylbenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Bromobenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Methylcyclohexane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Toluene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Chlorobenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Tetrahydrofuran	23	U	23		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Hexane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Cyclohexane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
1,2,4-Trichlorobenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Chlorodibromomethane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Tetrachloroethene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
sec-Butylbenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
1,3-Dichloropropane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Methyl tert-butyl ether	23	U	23		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
m-Xylene & p-Xylene	2.9	U	2.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
1,3-Dichlorobenzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Carbon tetrachloride	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
1,1-Dichloropropene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
2-Hexanone	23	U	23		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
2,2-Dichloropropane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Ethyl ether	12	U	12		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
1,1,1,2-Tetrachloroethane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Acetone	94	U	94		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Chloroform	12	U	12		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Benzene	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
1,1,1-Trichloroethane	5.9	U	5.9		ug/Kg		04/05/24 20:46	04/18/24 06:32	1
Bromomethane	12	U	12		ug/Kg		04/05/24 20:46	04/18/24 06:32	1

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

Client Sample ID: DUP-SO-2-04042024
Date Collected: 04/04/24 14:00
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-28
Matrix: Solid
Percent Solids: 82.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Iodomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Dibromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Chlorobromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Chloroethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Vinyl chloride	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Methylene Chloride	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Carbon disulfide	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Bromoform	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Dichlorobromomethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
1,1-Dichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
1,1-Dichloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Trichlorofluoromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Dichlorodifluoromethane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	23		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
1,2-Dichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
1,1,2-Trichloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Trichloroethene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Methyl acetate	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
1,1,2,2-Tetrachloroethane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
1,2,3-Trichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Hexachlorobutadiene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Naphthalene	7.7	U	7.7		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
o-Xylene	2.9	U	2.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
2-Chlorotoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
1,2-Dichlorobenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
1,2,4-Trimethylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
1,2-Dibromo-3-Chloropropane	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
1,2,3-Trichloropropane	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Ethyl methacrylate	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
tert-Butylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Isopropylbenzene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
4-Isopropyltoluene	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Xylenes, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
1,2-Dichloroethene, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
1,3-Dichloropropene, Total	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Trihalomethanes, Total	12	U	12		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1
Total BTEX	5.9	U	5.9		ug/Kg	☼	04/05/24 20:46	04/18/24 06:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*58 - 140*	*04/05/24 20:46*	*04/18/24 06:32*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*04/05/24 20:46*	*04/18/24 06:32*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 20:46*	*04/18/24 06:32*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*04/05/24 20:46*	*04/18/24 06:32*	*1*

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

Client Sample ID: Trip Blank
Date Collected: 04/04/24 13:00
Date Received: 04/05/24 08:45

Lab Sample ID: 280-189690-29
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			04/11/24 00:05	1
Styrene	1.0	U	1.0		ug/L			04/11/24 00:05	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			04/11/24 00:05	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			04/11/24 00:05	1
N-Propylbenzene	1.0	U	1.0		ug/L			04/11/24 00:05	1
n-Butylbenzene	1.0	U	1.0		ug/L			04/11/24 00:05	1
4-Chlorotoluene	1.0	U	1.0		ug/L			04/11/24 00:05	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			04/11/24 00:05	1
Ethylene Dibromide	1.0	U	1.0		ug/L			04/11/24 00:05	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			04/11/24 00:05	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			04/11/24 00:05	1
Acrylonitrile	20	U	20		ug/L			04/11/24 00:05	1
Vinyl acetate	3.0	U	3.0		ug/L			04/11/24 00:05	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			04/11/24 00:05	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			04/11/24 00:05	1
Bromobenzene	1.0	U	1.0		ug/L			04/11/24 00:05	1
Methylcyclohexane	1.0	U	1.0		ug/L			04/11/24 00:05	1
Toluene	1.0	U	1.0		ug/L			04/11/24 00:05	1
Chlorobenzene	1.0	U	1.0		ug/L			04/11/24 00:05	1
Tetrahydrofuran	7.0	U	7.0		ug/L			04/11/24 00:05	1
Hexane	2.0	U	2.0		ug/L			04/11/24 00:05	1
Cyclohexane	1.0	U	1.0		ug/L			04/11/24 00:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			04/11/24 00:05	1
Chlorodibromomethane	2.0	U	2.0		ug/L			04/11/24 00:05	1
Tetrachloroethene	1.0	U	1.0		ug/L			04/11/24 00:05	1
sec-Butylbenzene	1.0	U	1.0		ug/L			04/11/24 00:05	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			04/11/24 00:05	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/11/24 00:05	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/11/24 00:05	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			04/11/24 00:05	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			04/11/24 00:05	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			04/11/24 00:05	1
Carbon tetrachloride	1.0	U	1.0		ug/L			04/11/24 00:05	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			04/11/24 00:05	1
2-Hexanone	5.0	U	5.0		ug/L			04/11/24 00:05	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			04/11/24 00:05	1
Ethyl ether	2.0	U	2.0		ug/L			04/11/24 00:05	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/11/24 00:05	1
Acetone	15	U	15		ug/L			04/11/24 00:05	1
Chloroform	1.0	U	1.0		ug/L			04/11/24 00:05	1
Benzene	1.0	U	1.0		ug/L			04/11/24 00:05	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			04/11/24 00:05	1
Bromomethane	5.0	U *1	5.0		ug/L			04/11/24 00:05	1
Chloromethane	2.0	U *1	2.0		ug/L			04/11/24 00:05	1
Iodomethane	5.0	U *1	5.0		ug/L			04/11/24 00:05	1
Dibromomethane	1.0	U	1.0		ug/L			04/11/24 00:05	1
Chlorobromomethane	1.0	U	1.0		ug/L			04/11/24 00:05	1
Chloroethane	4.0	U *1	4.0		ug/L			04/11/24 00:05	1
Vinyl chloride	2.0	U *1	2.0		ug/L			04/11/24 00:05	1

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

Client Sample ID: Trip Blank — **Lab Sample ID: 280-189690-29**
Date Collected: 04/04/24 13:00 — **Matrix: Water**
Date Received: 04/05/24 08:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	2.0	U	2.0		ug/L			04/11/24 00:05	1
Carbon disulfide	2.0	U	2.0		ug/L			04/11/24 00:05	1
Bromoform	2.0	U	2.0		ug/L			04/11/24 00:05	1
Dichlorobromomethane	1.0	U	1.0		ug/L			04/11/24 00:05	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/11/24 00:05	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			04/11/24 00:05	1
Trichlorofluoromethane	2.0	U *1	2.0		ug/L			04/11/24 00:05	1
Dichlorodifluoromethane	3.0	U *1	3.0		ug/L			04/11/24 00:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			04/11/24 00:05	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			04/11/24 00:05	1
2-Butanone (MEK)	15	U	15		ug/L			04/11/24 00:05	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			04/11/24 00:05	1
Trichloroethene	1.0	U	1.0		ug/L			04/11/24 00:05	1
Methyl acetate	5.0	U	5.0		ug/L			04/11/24 00:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/11/24 00:05	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			04/11/24 00:05	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			04/11/24 00:05	1
Naphthalene	2.0	U	2.0		ug/L			04/11/24 00:05	1
o-Xylene	1.0	U	1.0		ug/L			04/11/24 00:05	1
2-Chlorotoluene	1.0	U	1.0		ug/L			04/11/24 00:05	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			04/11/24 00:05	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			04/11/24 00:05	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			04/11/24 00:05	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			04/11/24 00:05	1
Ethyl methacrylate	3.0	U	3.0		ug/L			04/11/24 00:05	1
tert-Butylbenzene	1.0	U	1.0		ug/L			04/11/24 00:05	1
Isopropylbenzene	1.0	U	1.0		ug/L			04/11/24 00:05	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			04/11/24 00:05	1
Xylenes, Total	1.0	U	1.0		ug/L			04/11/24 00:05	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			04/11/24 00:05	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			04/11/24 00:05	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			04/11/24 00:05	1
Total BTEX	1.0	U	1.0		ug/L			04/11/24 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*		*04/11/24 00:05*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 120*		*04/11/24 00:05*	*1*
Toluene-d8 (Surr)	*103*		*80 - 125*		*04/11/24 00:05*	*1*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*		*04/11/24 00:05*	*1*

General Chemistry

Client Sample ID: POST-SO-SB5-05-04032024 — **Lab Sample ID: 280-189690-1**
Date Collected: 04/03/24 17:20 — **Matrix: Solid**
Date Received: 04/05/24 08:45 — **Percent Solids: 82.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.3		0.1		%			04/08/24 15:37	1
Percent Solids (EPA Moisture)	82.7		0.1		%			04/08/24 15:37	1

General Chemistry

Client Sample ID: POST-SO-SB5-10-04032024
Date Collected: 04/03/24 17:25
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-2
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**17.0**		0.1		%			04/08/24 15:37	1
Percent Solids (EPA Moisture)	83.0		0.1		%			04/08/24 15:37	1

Client Sample ID: POST-SO-SB5-15-04032024
Date Collected: 04/03/24 17:30
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-3
Matrix: Solid
Percent Solids: 82.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**17.1**		0.1		%			04/08/24 15:37	1
Percent Solids (EPA Moisture)	82.9		0.1		%			04/08/24 15:37	1

Client Sample ID: POST-SO-SB5-20-04032024
Date Collected: 04/03/24 17:35
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-4
Matrix: Solid
Percent Solids: 86.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.6**		0.1		%			04/08/24 15:37	1
Percent Solids (EPA Moisture)	86.4		0.1		%			04/08/24 15:37	1

Client Sample ID: POST-SO-SB5-25-04032024
Date Collected: 04/03/24 17:40
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-5
Matrix: Solid
Percent Solids: 83.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.4		0.1		%			04/08/24 15:37	1
Percent Solids (EPA Moisture)	83.6		0.1		%			04/08/24 15:37	1

Client Sample ID: DUP-SO-2-04032024
Date Collected: 04/03/24 17:00
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-6
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.3		0.1		%			04/08/24 15:37	1
Percent Solids (EPA Moisture)	84.7		0.1		%			04/08/24 15:37	1

Client Sample ID: POST-SO-SB2-05-04042024
Date Collected: 04/04/24 11:40
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-7
Matrix: Solid
Percent Solids: 84.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**15.1**		0.1		%			04/08/24 15:37	1
Percent Solids (EPA Moisture)	84.9		0.1		%			04/08/24 15:37	1

Client Sample ID: POST-SO-SB2-10-04042024
Date Collected: 04/04/24 11:45
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-8
Matrix: Solid
Percent Solids: 87.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.0**		0.1		%			04/08/24 15:37	1
Percent Solids (EPA Moisture)	87.0		0.1		%			04/08/24 15:37	1

Client Sample ID: POST-SO-SB2-15-04042024
Date Collected: 04/04/24 11:50
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-9
Matrix: Solid
Percent Solids: 87.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**12.8**		0.1		%			04/08/24 15:37	1
Percent Solids (EPA Moisture)	87.2		0.1		%			04/08/24 15:37	1

General Chemistry

Client Sample ID: POST-SO-SB2-20-04042024
Date Collected: 04/04/24 12:10
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-10
Matrix: Solid
Percent Solids: 86.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.1**		0.1		%			04/08/24 15:37	1
Percent Solids (EPA Moisture)	86.9		0.1		%			04/08/24 15:37	1

Client Sample ID: POST-SO-SB2-25-04042024
Date Collected: 04/04/24 12:15
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-11
Matrix: Solid
Percent Solids: 83.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.5**		0.1		%			04/08/24 15:37	1
Percent Solids (EPA Moisture)	83.5		0.1		%			04/08/24 15:37	1

Client Sample ID: POST-SO-SB2-30-04042024
Date Collected: 04/04/24 12:20
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-12
Matrix: Solid
Percent Solids: 82.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**17.9**		0.1		%			04/08/24 15:37	1
Percent Solids (EPA Moisture)	**82.1**		0.1		%			04/08/24 15:37	1

Client Sample ID: DUP-SO-1-04042024
Date Collected: 04/04/24 11:00
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-13
Matrix: Solid
Percent Solids: 86.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.2		0.1		%			04/08/24 15:37	1
Percent Solids (EPA Moisture)	86.8		0.1		%			04/08/24 15:37	1

Client Sample ID: POST-SO-SB1-05-04042024
Date Collected: 04/04/24 13:25
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-14
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.3		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	84.7		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB1-10-04042024
Date Collected: 04/04/24 13:30
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-15
Matrix: Solid
Percent Solids: 83.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.3**		0.1		%			**04/08/24 15:39**	1
Percent Solids (EPA Moisture)	83.7		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB1-15-04042024
Date Collected: 04/04/24 13:35
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-16
Matrix: Solid
Percent Solids: 86.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.4**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	86.6		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB1-20-04042024
Date Collected: 04/04/24 13:40
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-17
Matrix: Solid
Percent Solids: 85.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.7**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	**85.3**		0.1		%			04/08/24 15:39	1

General Chemistry

Client Sample ID: POST-SO-SB3-05-04042024
Date Collected: 04/04/24 15:00
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-18
Matrix: Solid
Percent Solids: 79.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**20.3**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	79.7		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB3-10-04042024
Date Collected: 04/04/24 15:05
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-19
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**15.1**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	84.9		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB3-15-04042024
Date Collected: 04/04/24 15:10
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-20
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.1**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	85.9		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB3-20-04042024
Date Collected: 04/04/24 15:15
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-21
Matrix: Solid
Percent Solids: 82.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.5		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	82.5		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB3-25-04042024
Date Collected: 04/04/24 15:20
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-22
Matrix: Solid
Percent Solids: 90.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.9		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	90.1		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB3-30-04042024
Date Collected: 04/04/24 15:25
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-23
Matrix: Solid
Percent Solids: 78.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**21.4**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	78.6		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB3-35-04042024
Date Collected: 04/04/24 15:30
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-24
Matrix: Solid
Percent Solids: 86.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.1**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	86.9		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB3-40-04042024
Date Collected: 04/04/24 15:35
Date Received: 04/05/24 08:45
Lab Sample ID: 280-189690-25
Matrix: Solid
Percent Solids: 85.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.3**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	85.7		0.1		%			04/08/24 15:39	1

General Chemistry

Client Sample ID: POST-SO-SB3-45-04042024
Lab Sample ID: 280-189690-26
Date Collected: 04/04/24 15:40
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 87.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.0**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	87.0		0.1		%			04/08/24 15:39	1

Client Sample ID: POST-SO-SB3-50-04042024
Lab Sample ID: 280-189690-27
Date Collected: 04/04/24 15:45
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 83.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.2**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	83.8		0.1		%			04/08/24 15:39	1

Client Sample ID: DUP-SO-2-04042024
Lab Sample ID: 280-189690-28
Date Collected: 04/04/24 14:00
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 82.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**17.4**		0.1		%			04/08/24 15:39	1
Percent Solids (EPA Moisture)	**82.6**		0.1		%			04/08/24 15:39	1

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189690-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(58-140)	(75-121)	(80-126)	(76-127)
280-189690-1	POST-SO-SB5-05-04032024	102	97	99	105
280-189690-2	POST-SO-SB5-10-04032024	103	96	98	105
280-189690-3	POST-SO-SB5-15-04032024	102	96	97	105
280-189690-4	POST-SO-SB5-20-04032024	103	98	99	104
280-189690-5	POST-SO-SB5-25-04032024	102	97	97	105
280-189690-6	DUP-SO-2-04032024	104	98	99	103
280-189690-7	POST-SO-SB2-05-04042024	103	97	99	103
280-189690-8	POST-SO-SB2-10-04042024	108	100	98	102
280-189690-9	POST-SO-SB2-15-04042024	106	100	99	102
280-189690-10	POST-SO-SB2-20-04042024	109	101	99	102
280-189690-11	POST-SO-SB2-25-04042024	107	101	100	100
280-189690-12	POST-SO-SB2-30-04042024	109	101	99	102
280-189690-13	DUP-SO-1-04042024	109	100	99	102
280-189690-14	POST-SO-SB1-05-04042024	111	100	99	103
280-189690-15	POST-SO-SB1-10-04042024	109	100	99	102
280-189690-15 MS	POST-SO-SB1-10-04042024	108	102	99	102
280-189690-15 MSD	POST-SO-SB1-10-04042024	106	100	99	102
280-189690-16	POST-SO-SB1-15-04042024	109	100	98	101
280-189690-17	POST-SO-SB1-20-04042024	108	100	98	102
280-189690-18	POST-SO-SB3-05-04042024	108	100	99	102
280-189690-19	POST-SO-SB3-10-04042024	110	100	97	102
280-189690-20	POST-SO-SB3-15-04042024	103	97	101	103
280-189690-21	POST-SO-SB3-20-04042024	104	98	99	102
280-189690-22	POST-SO-SB3-25-04042024	103	100	99	103
280-189690-23	POST-SO-SB3-30-04042024	107	100	100	102
280-189690-24	POST-SO-SB3-35-04042024	108	101	99	103
280-189690-25	POST-SO-SB3-40-04042024	103	98	101	103
280-189690-26	POST-SO-SB3-45-04042024	104	99	100	102
280-189690-27	POST-SO-SB3-50-04042024	104	98	101	102
280-189690-28	DUP-SO-2-04042024	109	100	99	102
LCS 280-648495/1-A	Lab Control Sample	101	97	99	105
LCS 280-649974/5	Lab Control Sample	101	100	100	104
LCSD 280-648495/3-A	Lab Control Sample Dup	101	97	99	106
LCSD 280-649974/6	Lab Control Sample Dup	102	100	101	103
MB 280-648495/5-A	Method Blank	101	96	99	104
MB 280-649974/7	Method Blank	104	99	98	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-127)	(77-120)	(80-125)	(78-120)
280-189690-29	Trip Blank	95	93	103	104

Surrogate Summary

Client: EA Engineering, Science, and Technology
Job ID: 280-189690-1
Project/Site: ABC Cleaners, NC

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

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	**Client Sample ID**	**(70-127)**	**(77-120)**	**(80-125)**	**(78-120)**
LCS 280-649057/4	Lab Control Sample	96	97	102	101
LCSD 280-649057/5	Lab Control Sample Dup	95	96	102	102
MB 280-649057/9	Method Blank	94	93	102	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-648495/5-A
Matrix: Solid
Analysis Batch: 649668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Styrene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
N-Propylbenzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
n-Butylbenzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
4-Chlorotoluene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Ethylene Dibromide	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
3-Chloro-1-propene	10	U	10		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Vinyl acetate	10	U	10		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,3,5-Trimethylbenzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Bromobenzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Methylcyclohexane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Toluene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Chlorobenzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Tetrahydrofuran	20	U	20		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Hexane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Cyclohexane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Chlorodibromomethane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Tetrachloroethene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
sec-Butylbenzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,3-Dichloropropane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
cis-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
trans-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Methyl tert-butyl ether	20	U	20		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
m-Xylene & p-Xylene	2.5	U	2.5		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Carbon tetrachloride	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,1-Dichloropropene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
2-Hexanone	20	U	20		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
2,2-Dichloropropane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Ethyl ether	10	U	10		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,1,1,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Acetone	80	U	80		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Chloroform	10	U	10		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Benzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Bromomethane	10	U	10		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Chloromethane	10	U	10		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Iodomethane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Dibromomethane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Chlorobromomethane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Chloroethane	10	U	10		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Vinyl chloride	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1

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

Lab Sample ID: MB 280-648495/5-A
Matrix: Solid
Analysis Batch: 649668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Carbon disulfide	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Bromoform	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Dichlorobromomethane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,1-Dichloroethane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Trichlorofluoromethane	10	U	10		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Dichlorodifluoromethane	10	U	10		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
2-Butanone (MEK)	20	U	20		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Trichloroethene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Methyl acetate	10	U	10		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,2,3-Trichlorobenzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Hexachlorobutadiene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Naphthalene	6.6	U	6.6		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
o-Xylene	2.5	U	2.5		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
2-Chlorotoluene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,2,4-Trimethylbenzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,2,3-Trichloropropane	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Ethyl methacrylate	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
tert-Butylbenzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Isopropylbenzene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
4-Isopropyltoluene	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Xylenes, Total	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,2-Dichloroethene, Total	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
1,3-Dichloropropene, Total	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Trihalomethanes, Total	10	U	10		ug/Kg		04/05/24 14:15	04/16/24 13:03	1
Total BTEX	5.0	U	5.0		ug/Kg		04/05/24 14:15	04/16/24 13:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*58 - 140*	*04/05/24 14:15*	*04/16/24 13:03*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 121*	*04/05/24 14:15*	*04/16/24 13:03*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*04/05/24 14:15*	*04/16/24 13:03*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*	*04/05/24 14:15*	*04/16/24 13:03*	*1*

Lab Sample ID: LCS 280-648495/1-A
Matrix: Solid
Analysis Batch: 649668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	48.8		ug/Kg		98	73 - 125
Styrene	50.0	51.1		ug/Kg		102	76 - 135
cis-1,3-Dichloropropene	50.0	55.2		ug/Kg		110	71 - 135

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

Lab Sample ID: LCS 280-648495/1-A
Matrix: Solid
Analysis Batch: 649668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	50.0	43.1		ug/Kg		86	71 - 135
N-Propylbenzene	50.0	51.5		ug/Kg		103	67 - 135
n-Butylbenzene	50.0	52.7		ug/Kg		105	68 - 135
4-Chlorotoluene	50.0	50.6		ug/Kg		101	68 - 135
1,4-Dichlorobenzene	50.0	47.6		ug/Kg		95	73 - 135
Ethylene Dibromide	50.0	50.3		ug/Kg		101	76 - 135
3-Chloro-1-propene	50.0	47.2		ug/Kg		94	50 - 150
1,2-Dichloroethane	50.0	45.3		ug/Kg		91	69 - 135
Vinyl acetate	100	106		ug/Kg		106	54 - 165
4-Methyl-2-pentanone (MIBK)	200	200		ug/Kg		100	69 - 150
1,3,5-Trimethylbenzene	50.0	52.5		ug/Kg		105	65 - 135
Bromobenzene	50.0	47.8		ug/Kg		96	72 - 135
Methylcyclohexane	50.0	45.1		ug/Kg		90	50 - 150
Toluene	50.0	44.1		ug/Kg		88	77 - 122
Chlorobenzene	50.0	47.4		ug/Kg		95	78 - 135
Tetrahydrofuran	100	92.7		ug/Kg		93	50 - 150
Hexane	50.0	40.8		ug/Kg		82	50 - 150
Cyclohexane	50.0	44.7		ug/Kg		89	50 - 150
1,2,4-Trichlorobenzene	50.0	47.4		ug/Kg		95	65 - 135
Chlorodibromomethane	50.0	48.7		ug/Kg		97	77 - 135
Tetrachloroethene	50.0	45.7		ug/Kg		91	76 - 135
sec-Butylbenzene	50.0	49.5		ug/Kg		99	69 - 135
1,3-Dichloropropane	50.0	50.6		ug/Kg		101	74 - 135
cis-1,2-Dichloroethene	50.0	43.9		ug/Kg		88	76 - 135
trans-1,2-Dichloroethene	50.0	42.4		ug/Kg		85	77 - 135
Methyl tert-butyl ether	50.0	36.3		ug/Kg		73	71 - 141
m-Xylene & p-Xylene	50.0	49.3		ug/Kg		99	77 - 135
1,3-Dichlorobenzene	50.0	48.0		ug/Kg		96	69 - 135
Carbon tetrachloride	50.0	44.5		ug/Kg		89	69 - 138
1,1-Dichloropropene	50.0	45.2		ug/Kg		90	72 - 135
2-Hexanone	200	219		ug/Kg		110	67 - 150
2,2-Dichloropropane	50.0	48.6		ug/Kg		97	69 - 135
Ethyl ether	50.0	45.3		ug/Kg		91	50 - 150
1,1,1,2-Tetrachloroethane	50.0	44.1		ug/Kg		88	76 - 135
Acetone	200	198		ug/Kg		99	65 - 150
Chloroform	50.0	45.2		ug/Kg		90	73 - 123
Benzene	50.0	45.0		ug/Kg		90	75 - 135
1,1,1-Trichloroethane	50.0	44.2		ug/Kg		88	70 - 135
Bromomethane	50.0	40.4		ug/Kg		81	52 - 135
Chloromethane	50.0	48.1		ug/Kg		96	41 - 138
Iodomethane	50.0	41.9		ug/Kg		84	74 - 142
Dibromomethane	50.0	43.7		ug/Kg		87	73 - 135
Chlorobromomethane	50.0	42.7		ug/Kg		85	74 - 135
Chloroethane	50.0	44.7		ug/Kg		89	51 - 145
Vinyl chloride	50.0	40.1		ug/Kg		80	43 - 145
Methylene Chloride	50.0	45.6		ug/Kg		91	76 - 136
Carbon disulfide	50.0	40.2		ug/Kg		80	45 - 150
Bromoform	50.0	39.9		ug/Kg		80	77 - 135
Dichlorobromomethane	50.0	46.4		ug/Kg		93	73 - 135

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

Lab Sample ID: LCS 280-648495/1-A
Matrix: Solid
Analysis Batch: 649668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	50.0	46.5		ug/Kg		93	70 - 135
1,1-Dichloroethene	50.0	43.2		ug/Kg		86	79 - 135
Trichlorofluoromethane	50.0	40.1		ug/Kg		80	48 - 150
Dichlorodifluoromethane	50.0	48.4		ug/Kg		97	32 - 152
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	42.7		ug/Kg		85	50 - 150
1,2-Dichloropropane	50.0	47.4		ug/Kg		95	72 - 121
2-Butanone (MEK)	200	187		ug/Kg		94	45 - 177
1,1,2-Trichloroethane	50.0	44.7		ug/Kg		89	78 - 135
Trichloroethene	50.0	48.0		ug/Kg		96	77 - 135
Methyl acetate	100	103		ug/Kg		103	50 - 150
1,1,2,2-Tetrachloroethane	50.0	51.4		ug/Kg		103	65 - 135
1,2,3-Trichlorobenzene	50.0	46.0		ug/Kg		92	62 - 135
Hexachlorobutadiene	50.0	44.4		ug/Kg		89	52 - 151
Naphthalene	50.0	50.1		ug/Kg		100	65 - 135
o-Xylene	50.0	50.0		ug/Kg		100	75 - 135
2-Chlorotoluene	50.0	49.2		ug/Kg		98	67 - 135
1,2-Dichlorobenzene	50.0	47.6		ug/Kg		95	73 - 135
1,2,4-Trimethylbenzene	50.0	51.7		ug/Kg		103	67 - 135
1,2-Dibromo-3-Chloropropane	50.0	41.9		ug/Kg		84	66 - 150
1,2,3-Trichloropropane	50.0	49.7		ug/Kg		99	65 - 135
Ethyl methacrylate	50.0	49.1		ug/Kg		98	50 - 150
tert-Butylbenzene	50.0	50.4		ug/Kg		101	66 - 135
Isopropylbenzene	50.0	52.1		ug/Kg		104	74 - 137
4-Isopropyltoluene	50.0	51.3		ug/Kg		103	66 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*58 - 140*
Dibromofluoromethane (Surr)	*97*		*75 - 121*
Toluene-d8 (Surr)	*99*		*80 - 126*
4-Bromofluorobenzene (Surr)	*105*		*76 - 127*

Lab Sample ID: LCSD 280-648495/3-A
Matrix: Solid
Analysis Batch: 649668

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 648495

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	50.0	46.3		ug/Kg		93	73 - 125	5	20
Styrene	50.0	48.5		ug/Kg		97	76 - 135	5	20
cis-1,3-Dichloropropene	50.0	52.5		ug/Kg		105	71 - 135	5	20
trans-1,3-Dichloropropene	50.0	41.9		ug/Kg		84	71 - 135	3	20
N-Propylbenzene	50.0	49.4		ug/Kg		99	67 - 135	4	22
n-Butylbenzene	50.0	50.7		ug/Kg		101	68 - 135	4	21
4-Chlorotoluene	50.0	48.4		ug/Kg		97	68 - 135	4	20
1,4-Dichlorobenzene	50.0	45.9		ug/Kg		92	73 - 135	4	22
Ethylene Dibromide	50.0	48.2		ug/Kg		96	76 - 135	4	20
3-Chloro-1-propene	50.0	45.7		ug/Kg		91	50 - 150	3	30
1,2-Dichloroethane	50.0	44.0		ug/Kg		88	69 - 135	3	20
Vinyl acetate	100	103		ug/Kg		103	54 - 165	3	27

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

Lab Sample ID: LCSD 280-648495/3-A
Matrix: Solid
Analysis Batch: 649668

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 648495

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	200	194		ug/Kg		97	69 - 150	3	25
1,3,5-Trimethylbenzene	50.0	50.5		ug/Kg		101	65 - 135	4	21
Bromobenzene	50.0	46.3		ug/Kg		93	72 - 135	3	22
Methylcyclohexane	50.0	43.0		ug/Kg		86	50 - 150	5	30
Toluene	50.0	42.2		ug/Kg		84	77 - 122	4	20
Chlorobenzene	50.0	44.7		ug/Kg		89	78 - 135	6	20
Tetrahydrofuran	100	90.7		ug/Kg		91	50 - 150	2	30
Hexane	50.0	38.2		ug/Kg		76	50 - 150	7	35
Cyclohexane	50.0	42.4		ug/Kg		85	50 - 150	5	30
1,2,4-Trichlorobenzene	50.0	45.4		ug/Kg		91	65 - 135	4	26
Chlorodibromomethane	50.0	47.7		ug/Kg		95	77 - 135	2	20
Tetrachloroethene	50.0	43.2		ug/Kg		86	76 - 135	6	20
sec-Butylbenzene	50.0	47.6		ug/Kg		95	69 - 135	4	22
1,3-Dichloropropane	50.0	47.9		ug/Kg		96	74 - 135	5	20
cis-1,2-Dichloroethene	50.0	42.0		ug/Kg		84	76 - 135	4	20
trans-1,2-Dichloroethene	50.0	41.1		ug/Kg		82	77 - 135	3	20
Methyl tert-butyl ether	50.0	36.1		ug/Kg		72	71 - 141	0	20
m-Xylene & p-Xylene	50.0	47.0		ug/Kg		94	77 - 135	5	20
1,3-Dichlorobenzene	50.0	46.0		ug/Kg		92	69 - 135	4	20
Carbon tetrachloride	50.0	43.3		ug/Kg		87	69 - 138	3	20
1,1-Dichloropropene	50.0	43.4		ug/Kg		87	72 - 135	4	20
2-Hexanone	200	212		ug/Kg		106	67 - 150	3	29
2,2-Dichloropropane	50.0	46.3		ug/Kg		93	69 - 135	5	20
Ethyl ether	50.0	43.9		ug/Kg		88	50 - 150	3	20
1,1,1,2-Tetrachloroethane	50.0	43.0		ug/Kg		86	76 - 135	3	20
Acetone	200	193		ug/Kg		96	65 - 150	3	28
Chloroform	50.0	43.3		ug/Kg		87	73 - 123	4	20
Benzene	50.0	43.5		ug/Kg		87	75 - 135	3	20
1,1,1-Trichloroethane	50.0	43.2		ug/Kg		86	70 - 135	2	20
Bromomethane	50.0	43.2		ug/Kg		86	52 - 135	7	22
Chloromethane	50.0	35.8	*1	ug/Kg		72	41 - 138	29	25
Iodomethane	50.0	40.3		ug/Kg		81	74 - 142	4	25
Dibromomethane	50.0	42.4		ug/Kg		85	73 - 135	3	20
Chlorobromomethane	50.0	41.7		ug/Kg		83	74 - 135	2	21
Chloroethane	50.0	40.0		ug/Kg		80	51 - 145	11	22
Vinyl chloride	50.0	34.9		ug/Kg		70	43 - 145	14	24
Methylene Chloride	50.0	43.7		ug/Kg		87	76 - 136	4	21
Carbon disulfide	50.0	38.7		ug/Kg		77	45 - 150	4	24
Bromoform	50.0	38.0	*-	ug/Kg		76	77 - 135	5	20
Dichlorobromomethane	50.0	44.9		ug/Kg		90	73 - 135	3	20
1,1-Dichloroethane	50.0	44.6		ug/Kg		89	70 - 135	4	20
1,1-Dichloroethene	50.0	40.9		ug/Kg		82	79 - 135	6	20
Trichlorofluoromethane	50.0	46.2		ug/Kg		92	48 - 150	14	33
Dichlorodifluoromethane	50.0	45.3		ug/Kg		91	32 - 152	7	28
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.1		ug/Kg		82	50 - 150	4	20
1,2-Dichloropropane	50.0	45.7		ug/Kg		91	72 - 121	4	20
2-Butanone (MEK)	200	179		ug/Kg		90	45 - 177	4	32
1,1,2-Trichloroethane	50.0	42.8		ug/Kg		86	78 - 135	4	20

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

Lab Sample ID: LCSD 280-648495/3-A
Matrix: Solid
Analysis Batch: 649668

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 648495

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene	50.0	46.0		ug/Kg		92	77 - 135	4	20
Methyl acetate	100	98.7		ug/Kg		99	50 - 150	5	30
1,1,2,2-Tetrachloroethane	50.0	50.1		ug/Kg		100	65 - 135	3	21
1,2,3-Trichlorobenzene	50.0	44.9		ug/Kg		90	62 - 135	3	31
Hexachlorobutadiene	50.0	42.2		ug/Kg		84	52 - 151	5	25
Naphthalene	50.0	48.8		ug/Kg		98	65 - 135	3	38
o-Xylene	50.0	47.6		ug/Kg		95	75 - 135	5	20
2-Chlorotoluene	50.0	47.1		ug/Kg		94	67 - 135	4	22
1,2-Dichlorobenzene	50.0	45.5		ug/Kg		91	73 - 135	4	20
1,2,4-Trimethylbenzene	50.0	50.2		ug/Kg		100	67 - 135	3	20
1,2-Dibromo-3-Chloropropane	50.0	41.2		ug/Kg		82	66 - 150	2	28
1,2,3-Trichloropropane	50.0	48.0		ug/Kg		96	65 - 135	3	21
Ethyl methacrylate	50.0	46.8		ug/Kg		94	50 - 150	5	30
tert-Butylbenzene	50.0	48.5		ug/Kg		97	66 - 135	4	22
Isopropylbenzene	50.0	50.3		ug/Kg		101	74 - 137	4	20
4-Isopropyltoluene	50.0	49.4		ug/Kg		99	66 - 135	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*58 - 140*
Dibromofluoromethane (Surr)	*97*		*75 - 121*
Toluene-d8 (Surr)	*99*		*80 - 126*
4-Bromofluorobenzene (Surr)	*106*		*76 - 127*

Lab Sample ID: 280-189690-15 MS
Matrix: Solid
Analysis Batch: 649974

Client Sample ID: POST-SO-SB1-10-04042024
Prep Type: Total/NA
Prep Batch: 648536

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	6.4	U F1 F2	59.3	41.3	F1	ug/Kg	☼	70	73 - 125
Styrene	6.4	U F1 F2	59.3	43.5	F1	ug/Kg	☼	73	76 - 135
cis-1,3-Dichloropropene	6.4	U F1 F2	59.3	44.9		ug/Kg	☼	76	71 - 135
trans-1,3-Dichloropropene	6.4	U F1 F2	59.3	45.7		ug/Kg	☼	77	71 - 135
N-Propylbenzene	6.4	U F1 F2	59.3	40.8		ug/Kg	☼	69	67 - 135
n-Butylbenzene	6.4	U F1 F2	59.3	37.6	F1	ug/Kg	☼	63	68 - 135
4-Chlorotoluene	6.4	U F1 F2	59.3	40.5		ug/Kg	☼	68	68 - 135
1,4-Dichlorobenzene	6.4	U F1 F2	59.3	39.6	F1	ug/Kg	☼	67	73 - 135
Ethylene Dibromide	6.4	U F1 F2	59.3	44.0	F1	ug/Kg	☼	74	76 - 135
3-Chloro-1-propene	13	U F1 F2	59.3	44.5		ug/Kg	☼	75	50 - 150
1,2-Dichloroethane	6.4	U F1 F2	59.3	46.9		ug/Kg	☼	79	69 - 135
Vinyl acetate	13	U F1 F2	119	99.2		ug/Kg	☼	84	54 - 165
4-Methyl-2-pentanone (MIBK)	26	U F1 F2	237	181		ug/Kg	☼	77	69 - 150
1,3,5-Trimethylbenzene	6.4	U F1 F2	59.3	40.1		ug/Kg	☼	68	65 - 135
Bromobenzene	6.4	U F1 F2	59.3	42.0	F1	ug/Kg	☼	71	72 - 135
Methylcyclohexane	6.4	U F1 F2	59.3	40.8		ug/Kg	☼	69	50 - 150
Toluene	6.4	U F1 F2	59.3	45.6		ug/Kg	☼	77	77 - 122
Chlorobenzene	6.4	U F1 F2	59.3	43.5	F1	ug/Kg	☼	73	78 - 135
Tetrahydrofuran	26	U F1 F2	119	88.6		ug/Kg	☼	75	50 - 150
Hexane	6.4	U F1 F2	59.3	35.0		ug/Kg	☼	59	50 - 150

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

Lab Sample ID: 280-189690-15 MS
Client Sample ID: POST-SO-SB1-10-04042024
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 649974
Prep Batch: 648536

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyclohexane	6.4	U F1 F2	59.3	41.9		ug/Kg	☼	71	50 - 150
1,2,4-Trichlorobenzene	6.4	U F1 F2	59.3	33.3	F1	ug/Kg	☼	56	65 - 135
Chlorodibromomethane	6.4	U F1 F2	59.3	46.0		ug/Kg	☼	78	77 - 135
Tetrachloroethene	6.4	U F1 F2	59.3	40.7	F1	ug/Kg	☼	69	76 - 135
sec-Butylbenzene	6.4	U F1 F2	59.3	39.1	F1	ug/Kg	☼	66	69 - 135
1,3-Dichloropropane	6.4	U F1 F2	59.3	45.4		ug/Kg	☼	77	74 - 135
cis-1,2-Dichloroethene	3.2	U F1 F2	59.3	45.5		ug/Kg	☼	77	76 - 135
trans-1,2-Dichloroethene	3.2	U F1 F2	59.3	45.5		ug/Kg	☼	77	77 - 135
Methyl tert-butyl ether	26	U F1 F2	59.3	41.1	F1	ug/Kg	☼	69	71 - 141
m-Xylene & p-Xylene	3.2	U F1 F2	59.3	42.5	F1	ug/Kg	☼	72	77 - 135
1,3-Dichlorobenzene	6.4	U F1 F2	59.3	39.8	F1	ug/Kg	☼	67	69 - 135
Carbon tetrachloride	6.4	U F1 F2	59.3	45.1		ug/Kg	☼	76	69 - 138
1,1-Dichloropropene	6.4	U F1 F2	59.3	45.9		ug/Kg	☼	77	72 - 135
2-Hexanone	26	U F1 F2	237	167		ug/Kg	☼	70	67 - 150
2,2-Dichloropropane	6.4	U F1 F2	59.3	39.5	F1	ug/Kg	☼	67	69 - 135
Ethyl ether	13	U F1 F2	59.3	44.9		ug/Kg	☼	76	50 - 150
1,1,1,2-Tetrachloroethane	6.4	U F1 F2	59.3	44.5	F1	ug/Kg	☼	75	76 - 135
Acetone	100	U F1 F2	237	248		ug/Kg	☼	76	65 - 150
Chloroform	13	U F1 F2	59.3	45.9		ug/Kg	☼	78	73 - 123
Benzene	6.4	U F1 F2	59.3	45.7		ug/Kg	☼	77	75 - 135
1,1,1-Trichloroethane	6.4	U F1 F2	59.3	44.3		ug/Kg	☼	75	70 - 135
Bromomethane	13	U F1 F2	59.3	41.2		ug/Kg	☼	70	52 - 135
Chloromethane	13	U F2	59.3	47.1		ug/Kg	☼	80	41 - 138
Iodomethane	6.4	U F1 F2	59.3	44.5		ug/Kg	☼	75	74 - 142
Dibromomethane	6.4	U F1 F2	59.3	46.9		ug/Kg	☼	79	73 - 135
Chlorobromomethane	6.4	U F1 F2	59.3	45.2		ug/Kg	☼	76	74 - 135
Chloroethane	13	U F1 F2	59.3	39.7		ug/Kg	☼	67	51 - 145
Vinyl chloride	6.4	U F2	59.3	40.9		ug/Kg	☼	69	43 - 145
Methylene Chloride	6.4	U F1 F2	59.3	45.1		ug/Kg	☼	76	76 - 136
Carbon disulfide	6.4	U F2	59.3	45.0		ug/Kg	☼	76	45 - 150
Bromoform	6.4	U F1 F2	59.3	44.5	F1	ug/Kg	☼	75	77 - 135
Dichlorobromomethane	6.4	U F1 F2	59.3	46.6		ug/Kg	☼	79	73 - 135
1,1-Dichloroethane	6.4	U F1 F2	59.3	46.7		ug/Kg	☼	79	70 - 135
1,1-Dichloroethene	6.4	U F1 F2	59.3	43.1	F1	ug/Kg	☼	73	79 - 135
Trichlorofluoromethane	13	U F1 F2	59.3	39.7		ug/Kg	☼	67	48 - 150
Dichlorodifluoromethane	13	U F1 F2	59.3	34.9		ug/Kg	☼	59	32 - 152
1,1,2-Trichloro-1,2,2-trifluoroethane	26	U F1 F2	59.3	36.3		ug/Kg	☼	61	50 - 150
1,2-Dichloropropane	6.4	U F1 F2	59.3	46.6		ug/Kg	☼	79	72 - 121
2-Butanone (MEK)	26	U F2	237	180		ug/Kg	☼	76	45 - 177
1,1,2-Trichloroethane	6.4	U F1 F2	59.3	45.0	F1	ug/Kg	☼	76	78 - 135
Trichloroethene	6.4	U F1 F2	59.3	43.4	F1	ug/Kg	☼	73	77 - 135
Methyl acetate	13	U F1 F2	119	88.8		ug/Kg	☼	75	50 - 150
1,1,2,2-Tetrachloroethane	6.4	U F1 F2	59.3	45.0		ug/Kg	☼	76	65 - 135
1,2,3-Trichlorobenzene	6.4	U F1 F2	59.3	34.2	F1	ug/Kg	☼	58	62 - 135
Hexachlorobutadiene	6.4	U F1 F2	59.3	31.7		ug/Kg	☼	54	52 - 151
Naphthalene	8.5	U F1 F2	59.3	38.1	F1	ug/Kg	☼	64	65 - 135
o-Xylene	3.2	U F1 F2	59.3	39.7	F1	ug/Kg	☼	67	75 - 135
2-Chlorotoluene	6.4	U F1 F2	59.3	41.3		ug/Kg	☼	70	67 - 135

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

Lab Sample ID: 280-189690-15 MS
Matrix: Solid
Analysis Batch: 649974

Client Sample ID: POST-SO-SB1-10-04042024
Prep Type: Total/NA
Prep Batch: 648536

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	6.4	U F1 F2	59.3	40.9	F1	ug/Kg	☼	69	73 - 135
1,2,4-Trimethylbenzene	6.4	U F1 F2	59.3	37.5	F1	ug/Kg	☼	63	67 - 135
1,2-Dibromo-3-Chloropropane	13	U F1 F2	59.3	36.6	F1	ug/Kg	☼	62	66 - 150
1,2,3-Trichloropropane	6.4	U F1 F2	59.3	43.3		ug/Kg	☼	73	65 - 135
Ethyl methacrylate	6.4	U F1 F2	59.3	43.5		ug/Kg	☼	73	50 - 150
tert-Butylbenzene	6.4	U F1 F2	59.3	40.2		ug/Kg	☼	68	66 - 135
Isopropylbenzene	6.4	U F1 F2	59.3	42.1	F1	ug/Kg	☼	71	74 - 137
4-Isopropyltoluene	6.4	U F1 F2	59.3	39.3		ug/Kg	☼	66	66 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*58 - 140*
Dibromofluoromethane (Surr)	*102*		*75 - 121*
Toluene-d8 (Surr)	*99*		*80 - 126*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*

Lab Sample ID: 280-189690-15 MSD
Matrix: Solid
Analysis Batch: 649974

Client Sample ID: POST-SO-SB1-10-04042024
Prep Type: Total/NA
Prep Batch: 648536

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	6.4	U F1 F2	56.2	20.4	F1 F2	ug/Kg	☼	36	73 - 125	68	20
Styrene	6.4	U F1 F2	56.2	23.1	F1 F2	ug/Kg	☼	41	76 - 135	61	20
cis-1,3-Dichloropropene	6.4	U F1 F2	56.2	24.3	F1 F2	ug/Kg	☼	43	71 - 135	60	20
trans-1,3-Dichloropropene	6.4	U F1 F2	56.2	24.9	F1 F2	ug/Kg	☼	44	71 - 135	59	20
N-Propylbenzene	6.4	U F1 F2	56.2	18.0	F1 F2	ug/Kg	☼	32	67 - 135	77	22
n-Butylbenzene	6.4	U F1 F2	56.2	12.7	F1 F2	ug/Kg	☼	23	68 - 135	99	21
4-Chlorotoluene	6.4	U F1 F2	56.2	20.5	F1 F2	ug/Kg	☼	37	68 - 135	65	20
1,4-Dichlorobenzene	6.4	U F1 F2	56.2	20.8	F1 F2	ug/Kg	☼	37	73 - 135	62	22
Ethylene Dibromide	6.4	U F1 F2	56.2	23.9	F1 F2	ug/Kg	☼	43	76 - 135	59	20
3-Chloro-1-propene	13	U F1 F2	56.2	25.7	F1 F2	ug/Kg	☼	46	50 - 150	53	30
1,2-Dichloroethane	6.4	U F1 F2	56.2	26.7	F1 F2	ug/Kg	☼	48	69 - 135	55	20
Vinyl acetate	13	U F1 F2	112	55.9	F1 F2	ug/Kg	☼	50	54 - 165	56	27
4-Methyl-2-pentanone (MIBK)	26	U F1 F2	225	90.1	F1 F2	ug/Kg	☼	40	69 - 150	67	25
1,3,5-Trimethylbenzene	6.4	U F1 F2	56.2	17.6	F1 F2	ug/Kg	☼	31	65 - 135	78	21
Bromobenzene	6.4	U F1 F2	56.2	22.3	F1 F2	ug/Kg	☼	40	72 - 135	61	22
Methylcyclohexane	6.4	U F1 F2	56.2	14.5	F1 F2	ug/Kg	☼	26	50 - 150	95	30
Toluene	6.4	U F1 F2	56.2	23.6	F1 F2	ug/Kg	☼	42	77 - 122	63	20
Chlorobenzene	6.4	U F1 F2	56.2	23.2	F1 F2	ug/Kg	☼	41	78 - 135	61	20
Tetrahydrofuran	26	U F1 F2	112	48.5	F1 F2	ug/Kg	☼	43	50 - 150	59	30
Hexane	6.4	U F1 F2	56.2	9.18	F1 F2	ug/Kg	☼	16	50 - 150	117	35
Cyclohexane	6.4	U F1 F2	56.2	18.2	F1 F2	ug/Kg	☼	32	50 - 150	79	30
1,2,4-Trichlorobenzene	6.4	U F1 F2	56.2	15.3	F1 F2	ug/Kg	☼	27	65 - 135	74	26
Chlorodibromomethane	6.4	U F1 F2	56.2	24.7	F1 F2	ug/Kg	☼	44	77 - 135	60	20
Tetrachloroethene	6.4	U F1 F2	56.2	20.1	F1 F2	ug/Kg	☼	36	76 - 135	68	20
sec-Butylbenzene	6.4	U F1 F2	56.2	14.3	F1 F2	ug/Kg	☼	25	69 - 135	93	22
1,3-Dichloropropane	6.4	U F1 F2	56.2	24.5	F1 F2	ug/Kg	☼	44	74 - 135	60	20
cis-1,2-Dichloroethene	3.2	U F1 F2	56.2	26.1	F1 F2	ug/Kg	☼	46	76 - 135	54	20
trans-1,2-Dichloroethene	3.2	U F1 F2	56.2	26.0	F1 F2	ug/Kg	☼	46	77 - 135	55	20

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

Lab Sample ID: 280-189690-15 MSD
Matrix: Solid
Analysis Batch: 649974

Client Sample ID: POST-SO-SB1-10-04042024
Prep Type: Total/NA
Prep Batch: 648536

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl tert-butyl ether	26	U F1 F2	56.2	22	U F1 F2	ug/Kg	☼	39	71 - 141	62	20
m-Xylene & p-Xylene	3.2	U F1 F2	56.2	19.9	F1 F2	ug/Kg	☼	35	77 - 135	72	20
1,3-Dichlorobenzene	6.4	U F1 F2	56.2	20.4	F1 F2	ug/Kg	☼	36	69 - 135	64	20
Carbon tetrachloride	6.4	U F1 F2	56.2	21.5	F1 F2	ug/Kg	☼	38	69 - 138	71	20
1,1-Dichloropropene	6.4	U F1 F2	56.2	23.9	F1 F2	ug/Kg	☼	42	72 - 135	63	20
2-Hexanone	26	U F1 F2	225	80.6	F1 F2	ug/Kg	☼	36	67 - 150	70	29
2,2-Dichloropropane	6.4	U F1 F2	56.2	18.6	F1 F2	ug/Kg	☼	33	69 - 135	72	20
Ethyl ether	13	U F1 F2	56.2	23.9	F1 F2	ug/Kg	☼	43	50 - 150	61	20
1,1,1,2-Tetrachloroethane	6.4	U F1 F2	56.2	22.4	F1 F2	ug/Kg	☼	40	76 - 135	66	20
Acetone	100	U F1 F2	225	179	F1 F2	ug/Kg	☼	50	65 - 150	32	28
Chloroform	13	U F1 F2	56.2	25.1	F1 F2	ug/Kg	☼	45	73 - 123	59	20
Benzene	6.4	U F1 F2	56.2	25.0	F1 F2	ug/Kg	☼	44	75 - 135	59	20
1,1,1-Trichloroethane	6.4	U F1 F2	56.2	22.1	F1 F2	ug/Kg	☼	39	70 - 135	67	20
Bromomethane	13	U F1 F2	56.2	23.6	F1 F2	ug/Kg	☼	42	52 - 135	54	22
Chloromethane	13	U F2	56.2	29.7	F2	ug/Kg	☼	53	41 - 138	45	25
Iodomethane	6.4	U F1 F2	56.2	25.5	F1 F2	ug/Kg	☼	45	74 - 142	54	25
Dibromomethane	6.4	U F1 F2	56.2	26.7	F1 F2	ug/Kg	☼	47	73 - 135	55	20
Chlorobromomethane	6.4	U F1 F2	56.2	26.5	F1 F2	ug/Kg	☼	47	74 - 135	52	21
Chloroethane	13	U F1 F2	56.2	22.4	F1 F2	ug/Kg	☼	40	51 - 145	56	22
Vinyl chloride	6.4	U F2	56.2	25.2	F2	ug/Kg	☼	45	43 - 145	47	24
Methylene Chloride	6.4	U F1 F2	56.2	27.2	F1 F2	ug/Kg	☼	48	76 - 136	49	21
Carbon disulfide	6.4	U F2	56.2	26.8	F2	ug/Kg	☼	48	45 - 150	51	24
Bromoform	6.4	U F1 F2	56.2	23.1	F1 F2	ug/Kg	☼	41	77 - 135	64	20
Dichlorobromomethane	6.4	U F1 F2	56.2	25.0	F1 F2	ug/Kg	☼	45	73 - 135	60	20
1,1-Dichloroethane	6.4	U F1 F2	56.2	25.6	F1 F2	ug/Kg	☼	45	70 - 135	58	20
1,1-Dichloroethene	6.4	U F1 F2	56.2	23.5	F1 F2	ug/Kg	☼	42	79 - 135	59	20
Trichlorofluoromethane	13	U F1 F2	56.2	20.5	F1 F2	ug/Kg	☼	36	48 - 150	64	33
Dichlorodifluoromethane	13	U F1 F2	56.2	17.5	F1 F2	ug/Kg	☼	31	32 - 152	66	28
1,1,2-Trichloro-1,2,2-trifluoroethane	26	U F1 F2	56.2	22	U F1 F2	ug/Kg	☼	25	50 - 150	89	20
1,2-Dichloropropane	6.4	U F1 F2	56.2	24.3	F1 F2	ug/Kg	☼	43	72 - 121	63	20
2-Butanone (MEK)	26	U F2	225	103	F2	ug/Kg	☼	46	45 - 177	55	32
1,1,2-Trichloroethane	6.4	U F1 F2	56.2	24.4	F1 F2	ug/Kg	☼	43	78 - 135	59	20
Trichloroethene	6.4	U F1 F2	56.2	22.9	F1 F2	ug/Kg	☼	41	77 - 135	62	20
Methyl acetate	13	U F1 F2	112	52.1	F1 F2	ug/Kg	☼	46	50 - 150	52	30
1,1,2,2-Tetrachloroethane	6.4	U F1 F2	56.2	23.7	F1 F2	ug/Kg	☼	42	65 - 135	62	21
1,2,3-Trichlorobenzene	6.4	U F1 F2	56.2	15.6	F1 F2	ug/Kg	☼	28	62 - 135	75	31
Hexachlorobutadiene	6.4	U F1 F2	56.2	5.91	F1 F2	ug/Kg	☼	11	52 - 151	137	25
Naphthalene	8.5	U F1 F2	56.2	19.7	F1 F2	ug/Kg	☼	35	65 - 135	64	38
o-Xylene	3.2	U F1 F2	56.2	19.7	F1 F2	ug/Kg	☼	35	75 - 135	67	20
2-Chlorotoluene	6.4	U F1 F2	56.2	20.4	F1 F2	ug/Kg	☼	36	67 - 135	68	22
1,2-Dichlorobenzene	6.4	U F1 F2	56.2	20.8	F1 F2	ug/Kg	☼	37	73 - 135	65	20
1,2,4-Trimethylbenzene	6.4	U F1 F2	56.2	16.9	F1 F2	ug/Kg	☼	30	67 - 135	76	20
1,2-Dibromo-3-Chloropropane	13	U F1 F2	56.2	18.7	F1 F2	ug/Kg	☼	33	66 - 150	65	26
1,2,3-Trichloropropane	6.4	U F1 F2	56.2	22.4	F1 F2	ug/Kg	☼	40	65 - 135	63	21
Ethyl methacrylate	6.4	U F1 F2	56.2	20.9	F1 F2	ug/Kg	☼	37	50 - 150	70	30
tert-Butylbenzene	6.4	U F1 F2	56.2	16.1	F1 F2	ug/Kg	☼	29	66 - 135	86	22
Isopropylbenzene	6.4	U F1 F2	56.2	19.0	F1 F2	ug/Kg	☼	34	74 - 137	76	20
4-Isopropyltoluene	6.4	U F1 F2	56.2	14.6	F1 F2	ug/Kg	☼	26	66 - 135	92	20

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*106*		*58 - 140*
Dibromofluoromethane (Surr)	*100*		*75 - 121*
Toluene-d8 (Surr)	*99*		*80 - 126*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*

Lab Sample ID: MB 280-649057/9
Matrix: Water
Analysis Batch: 649057

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			04/10/24 23:43	1
Styrene	1.0	U	1.0		ug/L			04/10/24 23:43	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			04/10/24 23:43	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			04/10/24 23:43	1
N-Propylbenzene	1.0	U	1.0		ug/L			04/10/24 23:43	1
n-Butylbenzene	1.0	U	1.0		ug/L			04/10/24 23:43	1
4-Chlorotoluene	1.0	U	1.0		ug/L			04/10/24 23:43	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			04/10/24 23:43	1
Ethylene Dibromide	1.0	U	1.0		ug/L			04/10/24 23:43	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			04/10/24 23:43	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			04/10/24 23:43	1
Acrylonitrile	20	U	20		ug/L			04/10/24 23:43	1
Vinyl acetate	3.0	U	3.0		ug/L			04/10/24 23:43	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			04/10/24 23:43	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			04/10/24 23:43	1
Bromobenzene	1.0	U	1.0		ug/L			04/10/24 23:43	1
Methylcyclohexane	1.0	U	1.0		ug/L			04/10/24 23:43	1
Toluene	1.0	U	1.0		ug/L			04/10/24 23:43	1
Chlorobenzene	1.0	U	1.0		ug/L			04/10/24 23:43	1
Tetrahydrofuran	7.0	U	7.0		ug/L			04/10/24 23:43	1
Hexane	2.0	U	2.0		ug/L			04/10/24 23:43	1
Cyclohexane	1.0	U	1.0		ug/L			04/10/24 23:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			04/10/24 23:43	1
Chlorodibromomethane	2.0	U	2.0		ug/L			04/10/24 23:43	1
Tetrachloroethene	1.0	U	1.0		ug/L			04/10/24 23:43	1
sec-Butylbenzene	1.0	U	1.0		ug/L			04/10/24 23:43	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			04/10/24 23:43	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/10/24 23:43	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			04/10/24 23:43	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			04/10/24 23:43	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			04/10/24 23:43	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			04/10/24 23:43	1
Carbon tetrachloride	1.0	U	1.0		ug/L			04/10/24 23:43	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			04/10/24 23:43	1
2-Hexanone	5.0	U	5.0		ug/L			04/10/24 23:43	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			04/10/24 23:43	1
Ethyl ether	2.0	U	2.0		ug/L			04/10/24 23:43	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/10/24 23:43	1
Acetone	15	U	15		ug/L			04/10/24 23:43	1
Chloroform	1.0	U	1.0		ug/L			04/10/24 23:43	1
Benzene	1.0	U	1.0		ug/L			04/10/24 23:43	1

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

Lab Sample ID: MB 280-649057/9
Matrix: Water
Analysis Batch: 649057

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			04/10/24 23:43	1
Bromomethane	5.0	U	5.0		ug/L			04/10/24 23:43	1
Chloromethane	2.0	U	2.0		ug/L			04/10/24 23:43	1
Iodomethane	5.0	U	5.0		ug/L			04/10/24 23:43	1
Dibromomethane	1.0	U	1.0		ug/L			04/10/24 23:43	1
Chlorobromomethane	1.0	U	1.0		ug/L			04/10/24 23:43	1
Chloroethane	4.0	U	4.0		ug/L			04/10/24 23:43	1
Vinyl chloride	2.0	U	2.0		ug/L			04/10/24 23:43	1
Methylene Chloride	2.0	U	2.0		ug/L			04/10/24 23:43	1
Carbon disulfide	2.0	U	2.0		ug/L			04/10/24 23:43	1
Bromoform	2.0	U	2.0		ug/L			04/10/24 23:43	1
Dichlorobromomethane	1.0	U	1.0		ug/L			04/10/24 23:43	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/10/24 23:43	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			04/10/24 23:43	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			04/10/24 23:43	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			04/10/24 23:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			04/10/24 23:43	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			04/10/24 23:43	1
2-Butanone (MEK)	15	U	15		ug/L			04/10/24 23:43	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			04/10/24 23:43	1
Trichloroethene	1.0	U	1.0		ug/L			04/10/24 23:43	1
Methyl acetate	5.0	U	5.0		ug/L			04/10/24 23:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			04/10/24 23:43	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			04/10/24 23:43	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			04/10/24 23:43	1
Naphthalene	2.0	U	2.0		ug/L			04/10/24 23:43	1
o-Xylene	1.0	U	1.0		ug/L			04/10/24 23:43	1
2-Chlorotoluene	1.0	U	1.0		ug/L			04/10/24 23:43	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			04/10/24 23:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			04/10/24 23:43	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			04/10/24 23:43	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			04/10/24 23:43	1
Ethyl methacrylate	3.0	U	3.0		ug/L			04/10/24 23:43	1
tert-Butylbenzene	1.0	U	1.0		ug/L			04/10/24 23:43	1
Isopropylbenzene	1.0	U	1.0		ug/L			04/10/24 23:43	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			04/10/24 23:43	1
Xylenes, Total	1.0	U	1.0		ug/L			04/10/24 23:43	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			04/10/24 23:43	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			04/10/24 23:43	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			04/10/24 23:43	1
Total BTEX	1.0	U	1.0		ug/L			04/10/24 23:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*		*04/10/24 23:43*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 120*		*04/10/24 23:43*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*04/10/24 23:43*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*04/10/24 23:43*	*1*

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

Lab Sample ID: LCS 280-649057/4
Matrix: Water
Analysis Batch: 649057

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	54.8		ug/L		110	76 - 121
Styrene	50.0	53.2		ug/L		106	79 - 120
cis-1,3-Dichloropropene	50.0	55.2		ug/L		110	75 - 120
trans-1,3-Dichloropropene	50.0	48.8		ug/L		98	66 - 127
N-Propylbenzene	50.0	55.3		ug/L		111	73 - 127
n-Butylbenzene	50.0	56.7		ug/L		113	69 - 130
4-Chlorotoluene	50.0	51.6		ug/L		103	74 - 124
1,4-Dichlorobenzene	50.0	49.5		ug/L		99	76 - 119
Ethylene Dibromide	50.0	53.7		ug/L		107	81 - 118
3-Chloro-1-propene	50.0	49.2		ug/L		98	57 - 136
1,2-Dichloroethane	50.0	47.5		ug/L		95	61 - 130
Acrylonitrile	500	500		ug/L		100	65 - 133
Vinyl acetate	100	104		ug/L		104	61 - 139
4-Methyl-2-pentanone (MIBK)	200	198		ug/L		99	56 - 135
1,3,5-Trimethylbenzene	50.0	54.3		ug/L		109	73 - 127
Bromobenzene	50.0	49.6		ug/L		99	75 - 122
Methylcyclohexane	50.0	54.2		ug/L		108	58 - 136
Toluene	50.0	50.4		ug/L		101	68 - 127
Chlorobenzene	50.0	51.1		ug/L		102	78 - 118
Tetrahydrofuran	100	102		ug/L		102	50 - 139
Hexane	50.0	50.1		ug/L		100	52 - 139
Cyclohexane	50.0	53.3		ug/L		107	57 - 134
1,2,4-Trichlorobenzene	50.0	49.9		ug/L		100	73 - 124
Chlorodibromomethane	50.0	51.8		ug/L		104	71 - 122
Tetrachloroethene	50.0	52.8		ug/L		106	72 - 127
sec-Butylbenzene	50.0	55.7		ug/L		111	72 - 127
1,3-Dichloropropane	50.0	52.9		ug/L		106	80 - 118
cis-1,2-Dichloroethene	50.0	51.0		ug/L		102	69 - 126
trans-1,2-Dichloroethene	50.0	48.9		ug/L		98	66 - 129
Methyl tert-butyl ether	50.0	50.6		ug/L		101	70 - 127
m-Xylene & p-Xylene	50.0	54.6		ug/L		109	76 - 122
1,3-Dichlorobenzene	50.0	51.1		ug/L		102	76 - 121
Carbon tetrachloride	50.0	50.8		ug/L		102	60 - 133
1,1-Dichloropropene	50.0	51.6		ug/L		103	64 - 133
2-Hexanone	200	206		ug/L		103	58 - 134
2,2-Dichloropropane	50.0	51.4		ug/L		103	57 - 140
Ethyl ether	50.0	50.7		ug/L		101	66 - 129
1,1,1,2-Tetrachloroethane	50.0	52.3		ug/L		105	74 - 121
Acetone	200	179		ug/L		89	50 - 137
Chloroform	50.0	51.5		ug/L		103	68 - 128
Benzene	50.0	52.8		ug/L		106	69 - 126
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	62 - 132
Bromomethane	50.0	21.3		ug/L		43	25 - 163
Chloromethane	50.0	26.3		ug/L		53	43 - 142
Iodomethane	50.0	25.3		ug/L		51	37 - 145
Dibromomethane	50.0	48.6		ug/L		97	68 - 129
Chlorobromomethane	50.0	46.7		ug/L		93	71 - 130
Chloroethane	50.0	35.4		ug/L		71	52 - 144

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

Lab Sample ID: LCS 280-649057/4
Matrix: Water
Analysis Batch: 649057

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	50.0	29.8		ug/L		60	53 - 141
Methylene Chloride	50.0	46.5		ug/L		93	64 - 128
Carbon disulfide	50.0	47.4		ug/L		95	56 - 128
Bromoform	50.0	49.0		ug/L		98	57 - 125
Dichlorobromomethane	50.0	53.2		ug/L		106	67 - 126
1,1-Dichloroethane	50.0	51.5		ug/L		103	66 - 130
1,1-Dichloroethene	50.0	48.7		ug/L		97	62 - 130
Trichlorofluoromethane	50.0	37.1		ug/L		74	57 - 144
Dichlorodifluoromethane	50.0	20.1		ug/L		40	26 - 152
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.0		ug/L		94	60 - 137
1,2-Dichloropropane	50.0	53.6		ug/L		107	68 - 127
2-Butanone (MEK)	200	190		ug/L		95	53 - 135
1,1,2-Trichloroethane	50.0	48.3		ug/L		97	72 - 128
Trichloroethene	50.0	52.2		ug/L		104	70 - 125
Methyl acetate	100	98.9		ug/L		99	59 - 133
1,1,2,2-Tetrachloroethane	50.0	51.8		ug/L		104	72 - 122
1,2,3-Trichlorobenzene	50.0	47.5		ug/L		95	70 - 127
Hexachlorobutadiene	50.0	56.0		ug/L		112	69 - 133
Naphthalene	50.0	46.1		ug/L		92	63 - 129
o-Xylene	50.0	54.4		ug/L		109	77 - 120
2-Chlorotoluene	50.0	50.5		ug/L		101	75 - 123
1,2-Dichlorobenzene	50.0	50.9		ug/L		102	77 - 121
1,2,4-Trimethylbenzene	50.0	54.6		ug/L		109	74 - 124
1,2-Dibromo-3-Chloropropane	50.0	47.8		ug/L		96	58 - 122
1,2,3-Trichloropropane	50.0	51.7		ug/L		103	74 - 123
Ethyl methacrylate	50.0	53.9		ug/L		108	69 - 126
tert-Butylbenzene	50.0	55.5		ug/L		111	72 - 126
Isopropylbenzene	50.0	55.1		ug/L		110	70 - 127
4-Isopropyltoluene	50.0	54.6		ug/L		109	74 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 125*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*

Lab Sample ID: LCSD 280-649057/5
Matrix: Water
Analysis Batch: 649057

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
Ethylbenzene	50.0	54.8		ug/L		110	76 - 121	0	20
Styrene	50.0	55.7		ug/L		111	79 - 120	5	20
cis-1,3-Dichloropropene	50.0	57.6		ug/L		115	75 - 120	4	20
trans-1,3-Dichloropropene	50.0	52.1		ug/L		104	66 - 127	6	20
N-Propylbenzene	50.0	57.1		ug/L		114	73 - 127	3	20
n-Butylbenzene	50.0	58.8		ug/L		118	69 - 130	4	20
4-Chlorotoluene	50.0	55.7		ug/L		111	74 - 124	8	20

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

Lab Sample ID: LCSD 280-649057/5
Matrix: Water
Analysis Batch: 649057

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
1,4-Dichlorobenzene	50.0	52.1		ug/L		104	76 - 119	5	20
Ethylene Dibromide	50.0	55.5		ug/L		111	81 - 118	3	20
3-Chloro-1-propene	50.0	54.1		ug/L		108	57 - 136	10	20
1,2-Dichloroethane	50.0	48.5		ug/L		97	61 - 130	2	20
Acrylonitrile	500	512		ug/L		102	65 - 133	2	20
Vinyl acetate	100	114		ug/L		114	61 - 139	10	23
4-Methyl-2-pentanone (MIBK)	200	205		ug/L		103	56 - 135	3	20
1,3,5-Trimethylbenzene	50.0	57.3		ug/L		115	73 - 127	5	20
Bromobenzene	50.0	53.4		ug/L		107	75 - 122	7	20
Methylcyclohexane	50.0	56.3		ug/L		113	58 - 136	4	21
Toluene	50.0	51.9		ug/L		104	68 - 127	3	20
Chlorobenzene	50.0	52.3		ug/L		105	78 - 118	2	20
Tetrahydrofuran	100	104		ug/L		104	50 - 139	2	20
Hexane	50.0	61.3		ug/L		123	52 - 139	20	23
Cyclohexane	50.0	56.5		ug/L		113	57 - 134	6	32
1,2,4-Trichlorobenzene	50.0	53.4		ug/L		107	73 - 124	7	20
Chlorodibromomethane	50.0	54.2		ug/L		108	71 - 122	4	20
Tetrachloroethene	50.0	54.1		ug/L		108	72 - 127	3	20
sec-Butylbenzene	50.0	58.1		ug/L		116	72 - 127	4	20
1,3-Dichloropropane	50.0	53.0		ug/L		106	80 - 118	0	20
cis-1,2-Dichloroethene	50.0	51.8		ug/L		104	69 - 126	1	20
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	66 - 129	3	20
Methyl tert-butyl ether	50.0	52.2		ug/L		104	70 - 127	3	20
m-Xylene & p-Xylene	50.0	55.3		ug/L		111	76 - 122	1	20
1,3-Dichlorobenzene	50.0	54.6		ug/L		109	76 - 121	7	20
Carbon tetrachloride	50.0	52.9		ug/L		106	60 - 133	4	20
1,1-Dichloropropene	50.0	53.8		ug/L		108	64 - 133	4	20
2-Hexanone	200	210		ug/L		105	58 - 134	2	21
2,2-Dichloropropane	50.0	54.0		ug/L		108	57 - 140	5	22
Ethyl ether	50.0	54.1		ug/L		108	66 - 129	6	20
1,1,1,2-Tetrachloroethane	50.0	54.6		ug/L		109	74 - 121	4	20
Acetone	200	185		ug/L		92	50 - 137	3	21
Chloroform	50.0	51.7		ug/L		103	68 - 128	0	20
Benzene	50.0	53.7		ug/L		107	69 - 126	2	20
1,1,1-Trichloroethane	50.0	53.1		ug/L		106	62 - 132	2	20
Bromomethane	50.0	37.2	*1	ug/L		74	25 - 163	54	40
Chloromethane	50.0	53.7	*1	ug/L		107	43 - 142	68	20
Iodomethane	50.0	40.4	*1	ug/L		81	37 - 145	46	38
Dibromomethane	50.0	50.6		ug/L		101	68 - 129	4	20
Chlorobromomethane	50.0	48.6		ug/L		97	71 - 130	4	20
Chloroethane	50.0	53.7	*1	ug/L		107	52 - 144	41	30
Vinyl chloride	50.0	54.1	*1	ug/L		108	53 - 141	58	25
Methylene Chloride	50.0	47.7		ug/L		95	64 - 128	3	20
Carbon disulfide	50.0	55.5		ug/L		111	56 - 128	16	20
Bromoform	50.0	51.8		ug/L		104	57 - 125	6	20
Dichlorobromomethane	50.0	54.3		ug/L		109	67 - 126	2	20
1,1-Dichloroethane	50.0	53.4		ug/L		107	66 - 130	4	20
1,1-Dichloroethene	50.0	52.7		ug/L		105	62 - 130	8	21
Trichlorofluoromethane	50.0	54.6	*1	ug/L		109	57 - 144	38	28

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

Lab Sample ID: LCSD 280-649057/5
Matrix: Water
Analysis Batch: 649057

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
Dichlorodifluoromethane	50.0	63.5	*1	ug/L		127	26 - 152	104	21
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.1		ug/L		108	60 - 137	14	23
1,2-Dichloropropane	50.0	55.0		ug/L		110	68 - 127	2	20
2-Butanone (MEK)	200	193		ug/L		96	53 - 135	2	20
1,1,2-Trichloroethane	50.0	49.4		ug/L		99	72 - 128	2	20
Trichloroethene	50.0	53.0		ug/L		106	70 - 125	2	20
Methyl acetate	100	102		ug/L		102	59 - 133	3	20
1,1,2,2-Tetrachloroethane	50.0	55.0		ug/L		110	72 - 122	6	20
1,2,3-Trichlorobenzene	50.0	51.5		ug/L		103	70 - 127	8	20
Hexachlorobutadiene	50.0	58.3		ug/L		117	69 - 133	4	20
Naphthalene	50.0	49.4		ug/L		99	63 - 129	7	21
o-Xylene	50.0	54.5		ug/L		109	77 - 120	0	20
2-Chlorotoluene	50.0	54.2		ug/L		108	75 - 123	7	20
1,2-Dichlorobenzene	50.0	54.4		ug/L		109	77 - 121	7	20
1,2,4-Trimethylbenzene	50.0	57.8		ug/L		116	74 - 124	6	20
1,2-Dibromo-3-Chloropropane	50.0	50.6		ug/L		101	58 - 122	6	21
1,2,3-Trichloropropane	50.0	52.9		ug/L		106	74 - 123	2	20
Ethyl methacrylate	50.0	54.9		ug/L		110	69 - 126	2	20
tert-Butylbenzene	50.0	57.5		ug/L		115	72 - 126	4	20
Isopropylbenzene	50.0	57.7		ug/L		115	70 - 127	4	20
4-Isopropyltoluene	50.0	57.3		ug/L		115	74 - 127	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*
Dibromofluoromethane (Surr)	*96*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 125*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*

Lab Sample ID: MB 280-649974/7
Matrix: Solid
Analysis Batch: 649974

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Styrene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
N-Propylbenzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
n-Butylbenzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
4-Chlorotoluene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Ethylene Dibromide	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
3-Chloro-1-propene	10	U	10		ug/Kg			04/17/24 22:52	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Vinyl acetate	10	U	10		ug/Kg			04/17/24 22:52	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg			04/17/24 22:52	1
1,3,5-Trimethylbenzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Bromobenzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1

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

Lab Sample ID: MB 280-649974/7
Matrix: Solid
Analysis Batch: 649974

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Toluene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Chlorobenzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Tetrahydrofuran	20	U	20		ug/Kg			04/17/24 22:52	1
Hexane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Cyclohexane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Chlorodibromomethane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Tetrachloroethene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
sec-Butylbenzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
1,3-Dichloropropane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
cis-1,2-Dichloroethene	2.5	U	2.5		ug/Kg			04/17/24 22:52	1
trans-1,2-Dichloroethene	2.5	U	2.5		ug/Kg			04/17/24 22:52	1
Methyl tert-butyl ether	20	U	20		ug/Kg			04/17/24 22:52	1
m-Xylene & p-Xylene	2.5	U	2.5		ug/Kg			04/17/24 22:52	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Carbon tetrachloride	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
1,1-Dichloropropene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
2-Hexanone	20	U	20		ug/Kg			04/17/24 22:52	1
2,2-Dichloropropane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Ethyl ether	10	U	10		ug/Kg			04/17/24 22:52	1
1,1,1,2-Tetrachloroethane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Acetone	80	U	80		ug/Kg			04/17/24 22:52	1
Chloroform	10	U	10		ug/Kg			04/17/24 22:52	1
Benzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Bromomethane	10	U	10		ug/Kg			04/17/24 22:52	1
Chloromethane	10	U	10		ug/Kg			04/17/24 22:52	1
Iodomethane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Dibromomethane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Chlorobromomethane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Chloroethane	10	U	10		ug/Kg			04/17/24 22:52	1
Vinyl chloride	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Methylene Chloride	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Carbon disulfide	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Bromoform	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Dichlorobromomethane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
1,1-Dichloroethane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Trichlorofluoromethane	10	U	10		ug/Kg			04/17/24 22:52	1
Dichlorodifluoromethane	10	U	10		ug/Kg			04/17/24 22:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/Kg			04/17/24 22:52	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
2-Butanone (MEK)	20	U	20		ug/Kg			04/17/24 22:52	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Trichloroethene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Methyl acetate	10	U	10		ug/Kg			04/17/24 22:52	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
1,2,3-Trichlorobenzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1

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

Lab Sample ID: MB 280-649974/7
Matrix: Solid
Analysis Batch: 649974

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Naphthalene	6.6	U	6.6		ug/Kg			04/17/24 22:52	1
o-Xylene	2.5	U	2.5		ug/Kg			04/17/24 22:52	1
2-Chlorotoluene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
1,2,4-Trimethylbenzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg			04/17/24 22:52	1
1,2,3-Trichloropropane	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Ethyl methacrylate	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
tert-Butylbenzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Isopropylbenzene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
4-Isopropyltoluene	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Xylenes, Total	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
1,2-Dichloroethene, Total	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
1,3-Dichloropropene, Total	5.0	U	5.0		ug/Kg			04/17/24 22:52	1
Trihalomethanes, Total	10	U	10		ug/Kg			04/17/24 22:52	1
Total BTEX	5.0	U	5.0		ug/Kg			04/17/24 22:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*		*04/17/24 22:52*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*		*04/17/24 22:52*	*1*
Toluene-d8 (Surr)	*98*		*80 - 126*		*04/17/24 22:52*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*		*04/17/24 22:52*	*1*

Lab Sample ID: LCS 280-649974/5
Matrix: Solid
Analysis Batch: 649974

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	47.0		ug/Kg		94	73 - 125
Styrene	50.0	49.8		ug/Kg		100	76 - 135
cis-1,3-Dichloropropene	50.0	51.6		ug/Kg		103	71 - 135
trans-1,3-Dichloropropene	50.0	51.1		ug/Kg		102	71 - 135
N-Propylbenzene	50.0	50.7		ug/Kg		101	67 - 135
n-Butylbenzene	50.0	51.2		ug/Kg		102	68 - 135
4-Chlorotoluene	50.0	49.9		ug/Kg		100	68 - 135
1,4-Dichlorobenzene	50.0	49.4		ug/Kg		99	73 - 135
Ethylene Dibromide	50.0	47.3		ug/Kg		95	76 - 135
3-Chloro-1-propene	50.0	49.4		ug/Kg		99	50 - 150
1,2-Dichloroethane	50.0	48.9		ug/Kg		98	69 - 135
Vinyl acetate	100	106		ug/Kg		106	54 - 165
4-Methyl-2-pentanone (MIBK)	200	187		ug/Kg		94	69 - 150
1,3,5-Trimethylbenzene	50.0	50.8		ug/Kg		102	65 - 135
Bromobenzene	50.0	49.9		ug/Kg		100	72 - 135
Methylcyclohexane	50.0	50.9		ug/Kg		102	50 - 150
Toluene	50.0	50.3		ug/Kg		101	77 - 122
Chlorobenzene	50.0	49.0		ug/Kg		98	78 - 135
Tetrahydrofuran	100	90.1		ug/Kg		90	50 - 150

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

Lab Sample ID: LCS 280-649974/5
Matrix: Solid
Analysis Batch: 649974

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexane	50.0	49.0		ug/Kg		98	50 - 150
Cyclohexane	50.0	49.9		ug/Kg		100	50 - 150
1,2,4-Trichlorobenzene	50.0	46.9		ug/Kg		94	65 - 135
Chlorodibromomethane	50.0	50.5		ug/Kg		101	77 - 135
Tetrachloroethene	50.0	47.5		ug/Kg		95	76 - 135
sec-Butylbenzene	50.0	50.6		ug/Kg		101	69 - 135
1,3-Dichloropropane	50.0	48.6		ug/Kg		97	74 - 135
cis-1,2-Dichloroethene	50.0	49.0		ug/Kg		98	76 - 135
trans-1,2-Dichloroethene	50.0	49.2		ug/Kg		98	77 - 135
Methyl tert-butyl ether	50.0	49.7		ug/Kg		99	71 - 141
m-Xylene & p-Xylene	50.0	49.9		ug/Kg		100	77 - 135
1,3-Dichlorobenzene	50.0	49.7		ug/Kg		99	69 - 135
Carbon tetrachloride	50.0	51.2		ug/Kg		102	69 - 138
1,1-Dichloropropene	50.0	49.7		ug/Kg		99	72 - 135
2-Hexanone	200	184		ug/Kg		92	67 - 150
2,2-Dichloropropane	50.0	52.2		ug/Kg		104	69 - 135
Ethyl ether	50.0	49.6		ug/Kg		99	50 - 150
1,1,1,2-Tetrachloroethane	50.0	51.5		ug/Kg		103	76 - 135
Acetone	200	190		ug/Kg		95	65 - 150
Chloroform	50.0	49.8		ug/Kg		100	73 - 123
Benzene	50.0	49.3		ug/Kg		99	75 - 135
1,1,1-Trichloroethane	50.0	51.1		ug/Kg		102	70 - 135
Bromomethane	50.0	44.3		ug/Kg		89	52 - 135
Chloromethane	50.0	48.8		ug/Kg		98	41 - 138
Iodomethane	50.0	50.1		ug/Kg		100	74 - 142
Dibromomethane	50.0	48.8		ug/Kg		98	73 - 135
Chlorobromomethane	50.0	47.4		ug/Kg		95	74 - 135
Chloroethane	50.0	43.9		ug/Kg		88	51 - 145
Vinyl chloride	50.0	41.6		ug/Kg		83	43 - 145
Methylene Chloride	50.0	50.0		ug/Kg		100	76 - 136
Carbon disulfide	50.0	51.7		ug/Kg		103	45 - 150
Bromoform	50.0	47.6		ug/Kg		95	77 - 135
Dichlorobromomethane	50.0	50.7		ug/Kg		101	73 - 135
1,1-Dichloroethane	50.0	50.9		ug/Kg		102	70 - 135
1,1-Dichloroethene	50.0	51.3		ug/Kg		103	79 - 135
Trichlorofluoromethane	50.0	46.2		ug/Kg		92	48 - 150
Dichlorodifluoromethane	50.0	41.9		ug/Kg		84	32 - 152
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	48.5		ug/Kg		97	50 - 150
1,2-Dichloropropane	50.0	49.7		ug/Kg		99	72 - 121
2-Butanone (MEK)	200	178		ug/Kg		89	45 - 177
1,1,2-Trichloroethane	50.0	47.2		ug/Kg		94	78 - 135
Trichloroethene	50.0	48.9		ug/Kg		98	77 - 135
Methyl acetate	100	92.5		ug/Kg		92	50 - 150
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/Kg		99	65 - 135
1,2,3-Trichlorobenzene	50.0	46.1		ug/Kg		92	62 - 135
Hexachlorobutadiene	50.0	46.2		ug/Kg		92	52 - 151
Naphthalene	50.0	47.6		ug/Kg		95	65 - 135
o-Xylene	50.0	46.1		ug/Kg		92	75 - 135

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

Lab Sample ID: LCS 280-649974/5
Matrix: Solid
Analysis Batch: 649974

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	50.0	50.1		ug/Kg		100	67 - 135
1,2-Dichlorobenzene	50.0	49.4		ug/Kg		99	73 - 135
1,2,4-Trimethylbenzene	50.0	47.2		ug/Kg		94	67 - 135
1,2-Dibromo-3-Chloropropane	50.0	41.3		ug/Kg		83	66 - 150
1,2,3-Trichloropropane	50.0	48.1		ug/Kg		96	65 - 135
Ethyl methacrylate	50.0	49.3		ug/Kg		99	50 - 150
tert-Butylbenzene	50.0	51.2		ug/Kg		102	66 - 135
Isopropylbenzene	50.0	52.0		ug/Kg		104	74 - 137
4-Isopropyltoluene	50.0	51.1		ug/Kg		102	66 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*58 - 140*
Dibromofluoromethane (Surr)	*100*		*75 - 121*
Toluene-d8 (Surr)	*100*		*80 - 126*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*

Lab Sample ID: LCSD 280-649974/6
Matrix: Solid
Analysis Batch: 649974

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
Ethylbenzene	50.0	49.6		ug/Kg		99	73 - 125	5	20
Styrene	50.0	52.7		ug/Kg		105	76 - 135	6	20
cis-1,3-Dichloropropene	50.0	54.5		ug/Kg		109	71 - 135	5	20
trans-1,3-Dichloropropene	50.0	54.3		ug/Kg		109	71 - 135	6	20
N-Propylbenzene	50.0	53.0		ug/Kg		106	67 - 135	4	22
n-Butylbenzene	50.0	53.2		ug/Kg		106	68 - 135	4	21
4-Chlorotoluene	50.0	52.2		ug/Kg		104	68 - 135	5	20
1,4-Dichlorobenzene	50.0	51.5		ug/Kg		103	73 - 135	4	22
Ethylene Dibromide	50.0	50.8		ug/Kg		102	76 - 135	7	20
3-Chloro-1-propene	50.0	52.0		ug/Kg		104	50 - 150	5	30
1,2-Dichloroethane	50.0	51.5		ug/Kg		103	69 - 135	5	20
Vinyl acetate	100	113		ug/Kg		113	54 - 165	7	27
4-Methyl-2-pentanone (MIBK)	200	199		ug/Kg		99	69 - 150	6	25
1,3,5-Trimethylbenzene	50.0	52.6		ug/Kg		105	65 - 135	4	21
Bromobenzene	50.0	52.3		ug/Kg		105	72 - 135	5	22
Methylcyclohexane	50.0	54.4		ug/Kg		109	50 - 150	7	30
Toluene	50.0	53.0		ug/Kg		106	77 - 122	5	20
Chlorobenzene	50.0	51.7		ug/Kg		103	78 - 135	5	20
Tetrahydrofuran	100	95.7		ug/Kg		96	50 - 150	6	30
Hexane	50.0	51.3		ug/Kg		103	50 - 150	5	35
Cyclohexane	50.0	52.7		ug/Kg		105	50 - 150	5	30
1,2,4-Trichlorobenzene	50.0	47.9		ug/Kg		96	65 - 135	2	26
Chlorodibromomethane	50.0	53.5		ug/Kg		107	77 - 135	6	20
Tetrachloroethene	50.0	50.5		ug/Kg		101	76 - 135	6	20
sec-Butylbenzene	50.0	52.4		ug/Kg		105	69 - 135	4	22
1,3-Dichloropropane	50.0	51.8		ug/Kg		104	74 - 135	6	20
cis-1,2-Dichloroethene	50.0	51.1		ug/Kg		102	76 - 135	4	20

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

Lab Sample ID: LCSD 280-649974/6
Matrix: Solid
Analysis Batch: 649974

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-1,2-Dichloroethene	50.0	51.5		ug/Kg		103	77 - 135	4	20
Methyl tert-butyl ether	50.0	50.4		ug/Kg		101	71 - 141	1	20
m-Xylene & p-Xylene	50.0	52.9		ug/Kg		106	77 - 135	6	20
1,3-Dichlorobenzene	50.0	52.0		ug/Kg		104	69 - 135	5	20
Carbon tetrachloride	50.0	53.8		ug/Kg		108	69 - 138	5	20
1,1-Dichloropropene	50.0	52.7		ug/Kg		105	72 - 135	6	20
2-Hexanone	200	194		ug/Kg		97	67 - 150	5	29
2,2-Dichloropropane	50.0	53.4		ug/Kg		107	69 - 135	2	20
Ethyl ether	50.0	51.9		ug/Kg		104	50 - 150	5	20
1,1,1,2-Tetrachloroethane	50.0	54.5		ug/Kg		109	76 - 135	6	20
Acetone	200	205		ug/Kg		102	65 - 150	8	28
Chloroform	50.0	52.1		ug/Kg		104	73 - 123	5	20
Benzene	50.0	52.3		ug/Kg		105	75 - 135	6	20
1,1,1-Trichloroethane	50.0	52.8		ug/Kg		106	70 - 135	3	20
Bromomethane	50.0	42.8		ug/Kg		86	52 - 135	3	22
Chloromethane	50.0	50.2		ug/Kg		100	41 - 138	3	25
Iodomethane	50.0	50.8		ug/Kg		102	74 - 142	1	25
Dibromomethane	50.0	51.1		ug/Kg		102	73 - 135	4	20
Chlorobromomethane	50.0	51.0		ug/Kg		102	74 - 135	7	21
Chloroethane	50.0	42.6		ug/Kg		85	51 - 145	3	22
Vinyl chloride	50.0	43.3		ug/Kg		87	43 - 145	4	24
Methylene Chloride	50.0	51.4		ug/Kg		103	76 - 136	3	21
Carbon disulfide	50.0	53.4		ug/Kg		107	45 - 150	3	24
Bromoform	50.0	51.9		ug/Kg		104	77 - 135	9	20
Dichlorobromomethane	50.0	52.8		ug/Kg		106	73 - 135	4	20
1,1-Dichloroethane	50.0	52.9		ug/Kg		106	70 - 135	4	20
1,1-Dichloroethene	50.0	52.8		ug/Kg		106	79 - 135	3	20
Trichlorofluoromethane	50.0	49.3		ug/Kg		99	48 - 150	6	33
Dichlorodifluoromethane	50.0	47.1		ug/Kg		94	32 - 152	12	28
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	45.1		ug/Kg		90	50 - 150	7	20
1,2-Dichloropropane	50.0	52.6		ug/Kg		105	72 - 121	6	20
2-Butanone (MEK)	200	189		ug/Kg		95	45 - 177	6	32
1,1,2-Trichloroethane	50.0	50.2		ug/Kg		100	78 - 135	6	20
Trichloroethene	50.0	51.7		ug/Kg		103	77 - 135	6	20
Methyl acetate	100	98.0		ug/Kg		98	50 - 150	6	30
1,1,2,2-Tetrachloroethane	50.0	52.0		ug/Kg		104	65 - 135	5	21
1,2,3-Trichlorobenzene	50.0	48.4		ug/Kg		97	62 - 135	5	31
Hexachlorobutadiene	50.0	46.5		ug/Kg		93	52 - 151	1	25
Naphthalene	50.0	49.3		ug/Kg		99	65 - 135	4	38
o-Xylene	50.0	48.6		ug/Kg		97	75 - 135	5	20
2-Chlorotoluene	50.0	52.1		ug/Kg		104	67 - 135	4	22
1,2-Dichlorobenzene	50.0	51.8		ug/Kg		104	73 - 135	5	20
1,2,4-Trimethylbenzene	50.0	48.9		ug/Kg		98	67 - 135	4	20
1,2-Dibromo-3-Chloropropane	50.0	43.5		ug/Kg		87	66 - 150	5	26
1,2,3-Trichloropropane	50.0	50.5		ug/Kg		101	65 - 135	5	21
Ethyl methacrylate	50.0	52.4		ug/Kg		105	50 - 150	6	30
tert-Butylbenzene	50.0	53.3		ug/Kg		107	66 - 135	4	22
Isopropylbenzene	50.0	54.3		ug/Kg		109	74 - 137	4	20

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

Lab Sample ID: LCSD 280-649974/6
Matrix: Solid
Analysis Batch: 649974

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
4-Isopropyltoluene	50.0	53.3		ug/Kg		107	66 - 135	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*58 - 140*
Dibromofluoromethane (Surr)	*100*		*75 - 121*
Toluene-d8 (Surr)	*101*		*80 - 126*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*

Method: Moisture - Percent Moisture

Lab Sample ID: 280-189690-7 DU
Matrix: Solid
Analysis Batch: 648680

Client Sample ID: POST-SO-SB2-05-04042024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.1		14.6		%		3	20
Percent Solids	84.9		85.4		%		0.5	20

Lab Sample ID: 280-189690-27 DU
Matrix: Solid
Analysis Batch: 648680

Client Sample ID: POST-SO-SB3-50-04042024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	16.2		14.5		%		12	20
Percent Solids	83.8		85.5		%		2	20

GC/MS VOA

Prep Batch: 648495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189690-1	POST-SO-SB5-05-04032024	Total/NA	Solid	5035	
280-189690-2	POST-SO-SB5-10-04032024	Total/NA	Solid	5035	
280-189690-3	POST-SO-SB5-15-04032024	Total/NA	Solid	5035	
280-189690-4	POST-SO-SB5-20-04032024	Total/NA	Solid	5035	
280-189690-5	POST-SO-SB5-25-04032024	Total/NA	Solid	5035	
280-189690-6	DUP-SO-2-04032024	Total/NA	Solid	5035	
280-189690-7	POST-SO-SB2-05-04042024	Total/NA	Solid	5035	
MB 280-648495/5-A	Method Blank	Total/NA	Solid	5035	
LCS 280-648495/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-648495/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 648536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189690-8	POST-SO-SB2-10-04042024	Total/NA	Solid	5035	
280-189690-9	POST-SO-SB2-15-04042024	Total/NA	Solid	5035	
280-189690-10	POST-SO-SB2-20-04042024	Total/NA	Solid	5035	
280-189690-11	POST-SO-SB2-25-04042024	Total/NA	Solid	5035	
280-189690-12	POST-SO-SB2-30-04042024	Total/NA	Solid	5035	
280-189690-13	DUP-SO-1-04042024	Total/NA	Solid	5035	
280-189690-14	POST-SO-SB1-05-04042024	Total/NA	Solid	5035	
280-189690-15	POST-SO-SB1-10-04042024	Total/NA	Solid	5035	
280-189690-16	POST-SO-SB1-15-04042024	Total/NA	Solid	5035	
280-189690-17	POST-SO-SB1-20-04042024	Total/NA	Solid	5035	
280-189690-18	POST-SO-SB3-05-04042024	Total/NA	Solid	5035	
280-189690-19	POST-SO-SB3-10-04042024	Total/NA	Solid	5035	
280-189690-20	POST-SO-SB3-15-04042024	Total/NA	Solid	5035	
280-189690-21	POST-SO-SB3-20-04042024	Total/NA	Solid	5035	
280-189690-22	POST-SO-SB3-25-04042024	Total/NA	Solid	5035	
280-189690-23	POST-SO-SB3-30-04042024	Total/NA	Solid	5035	
280-189690-24	POST-SO-SB3-35-04042024	Total/NA	Solid	5035	
280-189690-25	POST-SO-SB3-40-04042024	Total/NA	Solid	5035	
280-189690-26	POST-SO-SB3-45-04042024	Total/NA	Solid	5035	
280-189690-27	POST-SO-SB3-50-04042024	Total/NA	Solid	5035	
280-189690-28	DUP-SO-2-04042024	Total/NA	Solid	5035	
280-189690-15 MS	POST-SO-SB1-10-04042024	Total/NA	Solid	5035	
280-189690-15 MSD	POST-SO-SB1-10-04042024	Total/NA	Solid	5035	

Analysis Batch: 649057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189690-29	Trip Blank	Total/NA	Water	8260D	
MB 280-649057/9	Method Blank	Total/NA	Water	8260D	
LCS 280-649057/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-649057/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 649668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189690-1	POST-SO-SB5-05-04032024	Total/NA	Solid	8260D	648495
280-189690-2	POST-SO-SB5-10-04032024	Total/NA	Solid	8260D	648495
280-189690-3	POST-SO-SB5-15-04032024	Total/NA	Solid	8260D	648495
280-189690-4	POST-SO-SB5-20-04032024	Total/NA	Solid	8260D	648495
280-189690-5	POST-SO-SB5-25-04032024	Total/NA	Solid	8260D	648495

GC/MS VOA (Continued)

Analysis Batch: 649668 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189690-6	DUP-SO-2-04032024	Total/NA	Solid	8260D	648495
280-189690-7	POST-SO-SB2-05-04042024	Total/NA	Solid	8260D	648495
MB 280-648495/5-A	Method Blank	Total/NA	Solid	8260D	648495
LCS 280-648495/1-A	Lab Control Sample	Total/NA	Solid	8260D	648495
LCSD 280-648495/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	648495

Analysis Batch: 649974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189690-8	POST-SO-SB2-10-04042024	Total/NA	Solid	8260D	648536
280-189690-9	POST-SO-SB2-15-04042024	Total/NA	Solid	8260D	648536
280-189690-10	POST-SO-SB2-20-04042024	Total/NA	Solid	8260D	648536
280-189690-11	POST-SO-SB2-25-04042024	Total/NA	Solid	8260D	648536
280-189690-12	POST-SO-SB2-30-04042024	Total/NA	Solid	8260D	648536
280-189690-13	DUP-SO-1-04042024	Total/NA	Solid	8260D	648536
280-189690-14	POST-SO-SB1-05-04042024	Total/NA	Solid	8260D	648536
280-189690-15	POST-SO-SB1-10-04042024	Total/NA	Solid	8260D	648536
280-189690-16	POST-SO-SB1-15-04042024	Total/NA	Solid	8260D	648536
280-189690-17	POST-SO-SB1-20-04042024	Total/NA	Solid	8260D	648536
280-189690-18	POST-SO-SB3-05-04042024	Total/NA	Solid	8260D	648536
280-189690-19	POST-SO-SB3-10-04042024	Total/NA	Solid	8260D	648536
280-189690-20	POST-SO-SB3-15-04042024	Total/NA	Solid	8260D	648536
280-189690-21	POST-SO-SB3-20-04042024	Total/NA	Solid	8260D	648536
280-189690-22	POST-SO-SB3-25-04042024	Total/NA	Solid	8260D	648536
280-189690-23	POST-SO-SB3-30-04042024	Total/NA	Solid	8260D	648536
280-189690-24	POST-SO-SB3-35-04042024	Total/NA	Solid	8260D	648536
280-189690-25	POST-SO-SB3-40-04042024	Total/NA	Solid	8260D	648536
280-189690-26	POST-SO-SB3-45-04042024	Total/NA	Solid	8260D	648536
280-189690-27	POST-SO-SB3-50-04042024	Total/NA	Solid	8260D	648536
280-189690-28	DUP-SO-2-04042024	Total/NA	Solid	8260D	648536
MB 280-649974/7	Method Blank	Total/NA	Solid	8260D	
LCS 280-649974/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 280-649974/6	Lab Control Sample Dup	Total/NA	Solid	8260D	
280-189690-15 MS	POST-SO-SB1-10-04042024	Total/NA	Solid	8260D	648536
280-189690-15 MSD	POST-SO-SB1-10-04042024	Total/NA	Solid	8260D	648536

General Chemistry

Analysis Batch: 648680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189690-1	POST-SO-SB5-05-04032024	Total/NA	Solid	Moisture	
280-189690-2	POST-SO-SB5-10-04032024	Total/NA	Solid	Moisture	
280-189690-3	POST-SO-SB5-15-04032024	Total/NA	Solid	Moisture	
280-189690-4	POST-SO-SB5-20-04032024	Total/NA	Solid	Moisture	
280-189690-5	POST-SO-SB5-25-04032024	Total/NA	Solid	Moisture	
280-189690-6	DUP-SO-2-04032024	Total/NA	Solid	Moisture	
280-189690-7	POST-SO-SB2-05-04042024	Total/NA	Solid	Moisture	
280-189690-8	POST-SO-SB2-10-04042024	Total/NA	Solid	Moisture	
280-189690-9	POST-SO-SB2-15-04042024	Total/NA	Solid	Moisture	
280-189690-10	POST-SO-SB2-20-04042024	Total/NA	Solid	Moisture	
280-189690-11	POST-SO-SB2-25-04042024	Total/NA	Solid	Moisture	
280-189690-12	POST-SO-SB2-30-04042024	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 648680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189690-13	DUP-SO-1-04042024	Total/NA	Solid	Moisture	
280-189690-14	POST-SO-SB1-05-04042024	Total/NA	Solid	Moisture	
280-189690-15	POST-SO-SB1-10-04042024	Total/NA	Solid	Moisture	
280-189690-16	POST-SO-SB1-15-04042024	Total/NA	Solid	Moisture	
280-189690-17	POST-SO-SB1-20-04042024	Total/NA	Solid	Moisture	
280-189690-18	POST-SO-SB3-05-04042024	Total/NA	Solid	Moisture	
280-189690-19	POST-SO-SB3-10-04042024	Total/NA	Solid	Moisture	
280-189690-20	POST-SO-SB3-15-04042024	Total/NA	Solid	Moisture	
280-189690-21	POST-SO-SB3-20-04042024	Total/NA	Solid	Moisture	
280-189690-22	POST-SO-SB3-25-04042024	Total/NA	Solid	Moisture	
280-189690-23	POST-SO-SB3-30-04042024	Total/NA	Solid	Moisture	
280-189690-24	POST-SO-SB3-35-04042024	Total/NA	Solid	Moisture	
280-189690-25	POST-SO-SB3-40-04042024	Total/NA	Solid	Moisture	
280-189690-26	POST-SO-SB3-45-04042024	Total/NA	Solid	Moisture	
280-189690-27	POST-SO-SB3-50-04042024	Total/NA	Solid	Moisture	
280-189690-28	DUP-SO-2-04042024	Total/NA	Solid	Moisture	
280-189690-7 DU	POST-SO-SB2-05-04042024	Total/NA	Solid	Moisture	
280-189690-27 DU	POST-SO-SB3-50-04042024	Total/NA	Solid	Moisture	

Client Sample ID: POST-SO-SB5-05-04032024

Lab Sample ID: 280-189690-1

Date Collected: 04/03/24 17:20
Date Received: 04/05/24 08:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:37	ABW	EET DEN

Client Sample ID: POST-SO-SB5-05-04032024

Lab Sample ID: 280-189690-1

Date Collected: 04/03/24 17:20
Date Received: 04/05/24 08:45

Matrix: Solid
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.208 g	5 mL	648495	04/05/24 14:15	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649668	04/16/24 13:42	JLS	EET DEN

Client Sample ID: POST-SO-SB5-10-04032024

Lab Sample ID: 280-189690-2

Date Collected: 04/03/24 17:25
Date Received: 04/05/24 08:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:37	ABW	EET DEN

Client Sample ID: POST-SO-SB5-10-04032024

Lab Sample ID: 280-189690-2

Date Collected: 04/03/24 17:25
Date Received: 04/05/24 08:45

Matrix: Solid
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.503 g	5 mL	648495	04/05/24 14:15	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649668	04/16/24 14:02	JLS	EET DEN

Client Sample ID: POST-SO-SB5-15-04032024

Lab Sample ID: 280-189690-3

Date Collected: 04/03/24 17:30
Date Received: 04/05/24 08:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:37	ABW	EET DEN

Client Sample ID: POST-SO-SB5-15-04032024

Lab Sample ID: 280-189690-3

Date Collected: 04/03/24 17:30
Date Received: 04/05/24 08:45

Matrix: Solid
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.852 g	5 mL	648495	04/05/24 14:15	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649668	04/16/24 14:22	JLS	EET DEN

Client Sample ID: POST-SO-SB5-20-04032024

Lab Sample ID: 280-189690-4

Date Collected: 04/03/24 17:35
Date Received: 04/05/24 08:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:37	ABW	EET DEN

Client Sample ID: POST-SO-SB5-20-04032024

Lab Sample ID: 280-189690-4

Date Collected: 04/03/24 17:35
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.663 g	5 mL	648495	04/05/24 14:15	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649668	04/16/24 14:42	JLS	EET DEN

Client Sample ID: POST-SO-SB5-25-04032024

Lab Sample ID: 280-189690-5

Date Collected: 04/03/24 17:40
Matrix: Solid
Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:37	ABW	EET DEN

Client Sample ID: POST-SO-SB5-25-04032024

Lab Sample ID: 280-189690-5

Date Collected: 04/03/24 17:40
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.322 g	5 mL	648495	04/05/24 14:15	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649668	04/16/24 15:01	JLS	EET DEN

Client Sample ID: DUP-SO-2-04032024

Lab Sample ID: 280-189690-6

Date Collected: 04/03/24 17:00
Matrix: Solid
Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:37	ABW	EET DEN

Client Sample ID: DUP-SO-2-04032024

Lab Sample ID: 280-189690-6

Date Collected: 04/03/24 17:00
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.671 g	5 mL	648495	04/05/24 14:15	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649668	04/16/24 15:21	JLS	EET DEN

Client Sample ID: POST-SO-SB2-05-04042024

Lab Sample ID: 280-189690-7

Date Collected: 04/04/24 11:40
Matrix: Solid
Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:37	ABW	EET DEN

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189690-1

Client Sample ID: POST-SO-SB2-05-04042024

Lab Sample ID: 280-189690-7
Matrix: Solid
Percent Solids: 84.9

Date Collected: 04/04/24 11:40
Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.388 g	5 mL	648495	04/05/24 14:15	GPM	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649668	04/16/24 15:41	JLS	EET DEN

Client Sample ID: POST-SO-SB2-10-04042024

Lab Sample ID: 280-189690-8
Matrix: Solid

Date Collected: 04/04/24 11:45
Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:37	ABW	EET DEN

Client Sample ID: POST-SO-SB2-10-04042024

Lab Sample ID: 280-189690-8
Matrix: Solid
Percent Solids: 87.0

Date Collected: 04/04/24 11:45
Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.853 g	5 mL	648536	04/05/24 14:15	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 00:00	CCF	EET DEN

Client Sample ID: POST-SO-SB2-15-04042024

Lab Sample ID: 280-189690-9
Matrix: Solid

Date Collected: 04/04/24 11:50
Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:37	ABW	EET DEN

Client Sample ID: POST-SO-SB2-15-04042024

Lab Sample ID: 280-189690-9
Matrix: Solid
Percent Solids: 87.2

Date Collected: 04/04/24 11:50
Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.304 g	5 mL	648536	04/05/24 14:15	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 00:19	CCF	EET DEN

Client Sample ID: POST-SO-SB2-20-04042024

Lab Sample ID: 280-189690-10
Matrix: Solid

Date Collected: 04/04/24 12:10
Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:37	ABW	EET DEN

Client Sample ID: POST-SO-SB2-20-04042024

Lab Sample ID: 280-189690-10
Date Collected: 04/04/24 12:10
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.525 g	5 mL	648536	04/05/24 14:15	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 00:39	CCF	EET DEN

Client Sample ID: POST-SO-SB2-25-04042024

Lab Sample ID: 280-189690-11
Date Collected: 04/04/24 12:15
Matrix: Solid
Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:37	ABW	EET DEN

Client Sample ID: POST-SO-SB2-25-04042024

Lab Sample ID: 280-189690-11
Date Collected: 04/04/24 12:15
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.730 g	5 mL	648536	04/05/24 14:15	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 00:59	CCF	EET DEN

Client Sample ID: POST-SO-SB2-30-04042024

Lab Sample ID: 280-189690-12
Date Collected: 04/04/24 12:20
Matrix: Solid
Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:37	ABW	EET DEN

Client Sample ID: POST-SO-SB2-30-04042024

Lab Sample ID: 280-189690-12
Date Collected: 04/04/24 12:20
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.802 g	5 mL	648536	04/05/24 14:15	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 01:18	CCF	EET DEN

Client Sample ID: DUP-SO-1-04042024

Lab Sample ID: 280-189690-13
Date Collected: 04/04/24 11:00
Matrix: Solid
Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:37	ABW	EET DEN

Client Sample ID: DUP-SO-1-04042024

Lab Sample ID: 280-189690-13

Date Collected: 04/04/24 11:00

Matrix: Solid

Date Received: 04/05/24 08:45

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.430 g	5 mL	648536	04/05/24 14:15	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 01:38	CCF	EET DEN

Client Sample ID: POST-SO-SB1-05-04042024

Lab Sample ID: 280-189690-14

Date Collected: 04/04/24 13:25

Matrix: Solid

Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB1-05-04042024

Lab Sample ID: 280-189690-14

Date Collected: 04/04/24 13:25

Matrix: Solid

Date Received: 04/05/24 08:45

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.550 g	5 mL	648536	04/05/24 14:15	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 01:58	CCF	EET DEN

Client Sample ID: POST-SO-SB1-10-04042024

Lab Sample ID: 280-189690-15

Date Collected: 04/04/24 13:30

Matrix: Solid

Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB1-10-04042024

Lab Sample ID: 280-189690-15

Date Collected: 04/04/24 13:30

Matrix: Solid

Date Received: 04/05/24 08:45

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.649 g	5 mL	648536	04/05/24 14:15	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 02:17	CCF	EET DEN

Client Sample ID: POST-SO-SB1-15-04042024

Lab Sample ID: 280-189690-16

Date Collected: 04/04/24 13:35

Matrix: Solid

Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB1-15-04042024

Lab Sample ID: 280-189690-16

Date Collected: 04/04/24 13:35

Matrix: Solid

Date Received: 04/05/24 08:45

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.580 g	5 mL	648536	04/05/24 14:15	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 02:37	CCF	EET DEN

Client Sample ID: POST-SO-SB1-20-04042024

Lab Sample ID: 280-189690-17

Date Collected: 04/04/24 13:40

Matrix: Solid

Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB1-20-04042024

Lab Sample ID: 280-189690-17

Date Collected: 04/04/24 13:40

Matrix: Solid

Date Received: 04/05/24 08:45

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.680 g	5 mL	648536	04/05/24 14:15	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 02:57	CCF	EET DEN

Client Sample ID: POST-SO-SB3-05-04042024

Lab Sample ID: 280-189690-18

Date Collected: 04/04/24 15:00

Matrix: Solid

Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB3-05-04042024

Lab Sample ID: 280-189690-18

Date Collected: 04/04/24 15:00

Matrix: Solid

Date Received: 04/05/24 08:45

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.787 g	5 mL	648536	04/05/24 14:15	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 03:16	CCF	EET DEN

Client Sample ID: POST-SO-SB3-10-04042024

Lab Sample ID: 280-189690-19

Date Collected: 04/04/24 15:05

Matrix: Solid

Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB3-10-04042024

Lab Sample ID: 280-189690-19

Date Collected: 04/04/24 15:05

Matrix: Solid

Date Received: 04/05/24 08:45

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.334 g	5 mL	648536	04/05/24 14:15	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 03:36	CCF	EET DEN

Client Sample ID: POST-SO-SB3-15-04042024

Lab Sample ID: 280-189690-20

Date Collected: 04/04/24 15:10

Matrix: Solid

Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB3-15-04042024

Lab Sample ID: 280-189690-20

Date Collected: 04/04/24 15:10

Matrix: Solid

Date Received: 04/05/24 08:45

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.005 g	5 mL	648536	04/05/24 14:15	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 03:55	CCF	EET DEN

Client Sample ID: POST-SO-SB3-20-04042024

Lab Sample ID: 280-189690-21

Date Collected: 04/04/24 15:15

Matrix: Solid

Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB3-20-04042024

Lab Sample ID: 280-189690-21

Date Collected: 04/04/24 15:15

Matrix: Solid

Date Received: 04/05/24 08:45

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.144 g	5 g	648536	04/05/24 20:46	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 04:15	CCF	EET DEN

Client Sample ID: POST-SO-SB3-25-04042024

Lab Sample ID: 280-189690-22

Date Collected: 04/04/24 15:20

Matrix: Solid

Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB3-25-04042024

Lab Sample ID: 280-189690-22

Date Collected: 04/04/24 15:20
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.632 g	5 g	648536	04/05/24 20:46	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 04:35	CCF	EET DEN

Client Sample ID: POST-SO-SB3-30-04042024

Lab Sample ID: 280-189690-23

Date Collected: 04/04/24 15:25
Matrix: Solid
Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB3-30-04042024

Lab Sample ID: 280-189690-23

Date Collected: 04/04/24 15:25
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.919 g	5 g	648536	04/05/24 20:46	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 04:54	CCF	EET DEN

Client Sample ID: POST-SO-SB3-35-04042024

Lab Sample ID: 280-189690-24

Date Collected: 04/04/24 15:30
Matrix: Solid
Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB3-35-04042024

Lab Sample ID: 280-189690-24

Date Collected: 04/04/24 15:30
Matrix: Solid
Date Received: 04/05/24 08:45
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.847 g	5 g	648536	04/05/24 20:46	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 05:14	CCF	EET DEN

Client Sample ID: POST-SO-SB3-40-04042024

Lab Sample ID: 280-189690-25

Date Collected: 04/04/24 15:35
Matrix: Solid
Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB3-40-04042024

Lab Sample ID: 280-189690-25

Date Collected: 04/04/24 15:35

Matrix: Solid

Date Received: 04/05/24 08:45

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.418 g	5 g	648536	04/05/24 20:46	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 05:33	CCF	EET DEN

Client Sample ID: POST-SO-SB3-45-04042024

Lab Sample ID: 280-189690-26

Date Collected: 04/04/24 15:40

Matrix: Solid

Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB3-45-04042024

Lab Sample ID: 280-189690-26

Date Collected: 04/04/24 15:40

Matrix: Solid

Date Received: 04/05/24 08:45

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.879 g	5 g	648536	04/05/24 20:46	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 05:53	CCF	EET DEN

Client Sample ID: POST-SO-SB3-50-04042024

Lab Sample ID: 280-189690-27

Date Collected: 04/04/24 15:45

Matrix: Solid

Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Client Sample ID: POST-SO-SB3-50-04042024

Lab Sample ID: 280-189690-27

Date Collected: 04/04/24 15:45

Matrix: Solid

Date Received: 04/05/24 08:45

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.088 g	5 g	648536	04/05/24 20:46	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 06:13	CCF	EET DEN

Client Sample ID: DUP-SO-2-04042024

Lab Sample ID: 280-189690-28

Date Collected: 04/04/24 14:00

Matrix: Solid

Date Received: 04/05/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			648680	04/08/24 15:39	ABW	EET DEN

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189690-1

Client Sample ID: DUP-SO-2-04042024

Lab Sample ID: 280-189690-28

Date Collected: 04/04/24 14:00
Date Received: 04/05/24 08:45

Matrix: Solid
Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.171 g	5 g	648536	04/05/24 20:46	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	649974	04/18/24 06:32	CCF	EET DEN

Client Sample ID: Trip Blank

Lab Sample ID: 280-189690-29

Date Collected: 04/04/24 13:00
Date Received: 04/05/24 08:45

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	649057	04/11/24 00:05	BMJ	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Job ID: 280-189690-1
Project/Site: ABC Cleaners, NC

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-24
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-07	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
North Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Grant Rowley	Lab PM: Norton, Michael R	Carrier Tracking No(s):	COC No: 280-138461-37980.2
Client Contact: Sanita Corum	Phone: 603-856-6124	E-Mail: Michael.Norton@et.eurofinsus.com	State of Origin: NC	Page: Page ~~2 of 2~~ 1 of 3
Company: EA Engineering, Science, and Technology	PWSID:	Analysis Requested		Job #:
Address: 225 Schilling Circle Suite 400	Due Date Requested: 04/11/2024			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
City: Hunt Valley	TAT Requested (days): 5			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-771-4950(Tel)	PO #: 24987			Other:
Email: scorum@eaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024283			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - TCLP VOAs (TCLP sublist)	Moisture - Percent Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	N				
POST-SO-SB5-05-04032024	04/03/24	1720	6	Solid	N	N	X	X	4	
POST-SO-SB5-10-04032024		1725		Solid						
POST-SO-SB5-15-04032024		1730		Solid						
POST-SO-SB5-20-04032024		1735		Solid						
POST-SO-SB5-25-04032024		1740		Solid						
DUP-SO-2-04032024		1700		Solid						
POST-SO-SB2-05-04042024	04/04/24	1140		Solid						
POST-SO-SB2-10-04042024		1145		Solid						
POST-SO-SB2-15-04042024		1150		Solid						
POST-SO-SB2-20-04042024		1210		Solid						
POST-SO-SB2-25-04042024		1215		Solid						

280-189690 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) EDDs as requested by EA and TerraThurm

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	04/04/24 1545	EA		4/5/24 0845	GGT DEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.5 C IR-1, IR 19

Ver: 06/08/2021

4/19/2024

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Grant Reeder	Lab PM: Norton, Michael R	Carrier Tracking No(s):	COC No: 280-138461-37980.5
Client Contact: Sanita Corum	Phone: 603-856-6124	E-Mail: Michael.Norton@et.eurofinsus.com	State of Origin: NC	Page: Page 2 of 3
Company: EA Engineering, Science, and Technology	PWSID:			Job #:
Address: 225 Schilling Circle Suite 400	Due Date Requested: 04/11/2024			
City: Hunt Valley	TAT Requested (days): 5			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-771-4950(Tel)	PO #: 24987			
Email: scorum@eaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024283			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - TCLP VOAS (TCLP sublist)	Moisture - Percent Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	N				
POST-SO-SB2-30-04042024	04/04/24	1220	G	Solid	N	N	X	X	4	
DUP-SO-1-04042024		1100		Solid						
POST-SO-SB1-05-04042024		1325		Solid						
POST-SO-SB1-10-04042024		1330		Solid					12	split w/ MS/MSD
POST-SO-SB1-15-04042024		1335		Solid					4	
POST-SO-SB1-20-04042024		1340		Solid						
POST-SO-SB3-05-04042024		1500								
POST-SO-SB3-10-04042024		1505								
POST-SO-SB3-15-04042024		1510								
POST-SO-SB3-20-04042024		1515								
POST-SO-SB3-25-04042024		1520								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, ☑ Other (specify) EDDs as requested by EA and Terrathermn

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	04/04/24 1545	EA	[signature]	4/5/24 0845	ET DEN
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.5, CF +0.1, IR H

Ver: 06/08/2021

4/19/2024

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Grant Reed	Lab PM: Norton, Michael R	Carrier Tracking No(s):	COC No: 280-138461-37980.3
Client Contact: Sanita Corum	Phone: 603-856-6124	E-Mail: Michael.Norton@et.eurofinsus.com	State of Origin: NC	Page: Page 3 of 3
Company: EA Engineering, Science, and Technology	PWSID:			Job #:
Address: 225 Schilling Circle Suite 400	Due Date Requested: 04/11/2024			
City: Hunt Valley	TAT Requested (days): 5			
State, Zip: MD, 21031	Compliance Project: ∆ Yes ∆ No			
Phone: 410-771-4950(Tel)	PO #: 24987			
Email: scorum@eaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024283			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - TCLP VOAS (TCLP subset)	Moisture - Percent Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	N	N	N		
POST-SO-SB3-30-04042024	04/04/24	1525	6	Solid	N	N	X	X	4	
POST-SO-SB3-35-04042024		1530		Solid						
POST-SO-SB3-40-04042024		1535		Solid						
POST-SO-SB3-45-04042024		1540		Solid						
POST-SO-SB3-50-04042024		1545		Solid						
DUP-SO-2-04042024		1400		Solid						
Trip Blank	04/04/24	1300		~~Solid~~ Aq	N		X		1	
				Solid						
				Solid						
				Solid						
				Solid						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) EDDs as requested by EA + Terrathorn

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	04/04/24 1545	EA		4/5/24 0845	GGT DEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.5 CF +0.1 IR 19

Ver: 06/08/2021

FedEx Express Package US Airbill

FedEx Tracking Number 8179 6536 4351

1 From

Date

Sender's Name Phone

Company

Address

Dept./Floor/Suite/Room

City State ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name Phone

Company

Address

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City State ZIP

Hold Weekday
FedEx location address REQUIRED, NOT available for FedEx First Overnight.

Hold Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0200

4 Express Package Service * To most locations. Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2nd Business Days

- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

Saturday Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required — Package may be left without obtaining a signature for delivery.
Direct Signature — Someone at recipient's address may sign for delivery.
Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?
One box must be checked.

No
Yes — As per attached Shipper's Declaration
Yes — Shipper's Declaration not required
Dry Ice — Dry Ice, 9, UN1845 ____ x ____ kg

* Restrictions apply for dangerous goods — see the current FedEx Service Guide.

Cargo Aircraft Only

7 Payment Bill to:

Sender — Acct. No. in Section 1 will be billed
Recipient
Third Party
Obtain recip. FedEx Acct No.

Enter FedEx Acct. No. below.

Total Packages Total Weight

lbs.

Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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644

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FedEx

TRK# 8179 6536 4351

0200

X1 LAAA

FRI - 05 APR 8:30A
FIRST OVERNIGHT

80002
CO-US
DEN

245382

280-169690 Waybill

4/19/2024

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 280-189690-1

Login Number: 189690
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
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: Sanita Corum
EA Engineering, Science, and Technology
225 Schilling Circle
Suite 400
Hunt Valley, Maryland 21031

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JOB DESCRIPTION

ABC Cleaners, NC

JOB NUMBER

280-190468-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

myEOL

Eurofins Denver

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 TestAmerica Project Manager.

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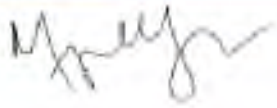

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Authorized for release by
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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190468-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*3	ISTD response or retention time outside acceptable limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-190468-1 — Eurofins Denver

Job Narrative
280-190468-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/23/2024 8:00 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 5.9°C.

GC/MS VOA
Method 8260D: Internal standard responses were outside of acceptance limits for the following sample: SS-01-04222024 (280-190468-1). The samples matrix may have interfered with ISTD recoveries. The client only sent in one plug, therefore the sample cannot be re-run for confirmation.

Method 8260D: The following analyte recovered outside control limits for the LCSD associated with preparation batch 280-650657 and analytical batch 280-650746: 1,1-Dichloroethene 77%R(79-135)%R ME(64-146)%R. This is is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-650657 and analytical batch 280-650746.

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

Detection Summary

Client: EA Engineering, Science, and Technology
Job ID: 280-190468-1
Project/Site: ABC Cleaners, NC

Client Sample ID: SS-01-04222024
Lab Sample ID: 280-190468-1

No Detections.

Client Sample ID: SS-02-04222024
Lab Sample ID: 280-190468-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190468-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
5035	Closed System Purge and Trap	SW846	EET DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190468-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-190468-1	SS-01-04222024	Solid	04/22/24 10:58	04/23/24 08:00
280-190468-2	SS-02-04222024	Solid	04/22/24 11:05	04/23/24 08:00

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

Client Sample ID: SS-01-04222024
Date Collected: 04/22/24 10:58
Date Received: 04/23/24 08:00

Lab Sample ID: 280-190468-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Styrene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
cis-1,3-Dichloropropene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
trans-1,3-Dichloropropene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
N-Propylbenzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
n-Butylbenzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
4-Chlorotoluene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,4-Dichlorobenzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Ethylene Dibromide	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
3-Chloro-1-propene	8.4	U *3	8.4		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,2-Dichloroethane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Vinyl acetate	8.4	U *3	8.4		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
4-Methyl-2-pentanone (MIBK)	17	U *3	17		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,3,5-Trimethylbenzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Bromobenzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Methylcyclohexane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Toluene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Chlorobenzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Tetrahydrofuran	17	U *3	17		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Hexane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Cyclohexane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,2,4-Trichlorobenzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Chlorodibromomethane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Tetrachloroethene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
sec-Butylbenzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,3-Dichloropropane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
cis-1,2-Dichloroethene	2.1	U *3	2.1		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
trans-1,2-Dichloroethene	2.1	U *3	2.1		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Methyl tert-butyl ether	17	U *3	17		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
m-Xylene & p-Xylene	2.1	U *3	2.1		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,3-Dichlorobenzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Carbon tetrachloride	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,1-Dichloropropene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
2-Hexanone	17	U *3	17		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
2,2-Dichloropropane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Ethyl ether	8.4	U *3	8.4		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,1,1,2-Tetrachloroethane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Acetone	67	U *3	67		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Chloroform	8.4	U *3	8.4		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Benzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,1,1-Trichloroethane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Bromomethane	8.4	U *3	8.4		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Chloromethane	8.4	U *3	8.4		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Iodomethane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Dibromomethane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Chlorobromomethane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Chloroethane	8.4	U *3	8.4		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Vinyl chloride	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Methylene Chloride	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1

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

Client Sample ID: SS-01-04222024
Lab Sample ID: 280-190468-1
Date Collected: 04/22/24 10:58
Matrix: Solid
Date Received: 04/23/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Bromoform	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Dichlorobromomethane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,1-Dichloroethane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,1-Dichloroethene	4.2	U *3 *-	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Trichlorofluoromethane	8.4	U *3	8.4		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Dichlorodifluoromethane	8.4	U *3	8.4		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	17	U *3	17		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,2-Dichloropropane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
2-Butanone (MEK)	17	U *3	17		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,1,2-Trichloroethane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Trichloroethene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Methyl acetate	8.4	U *3	8.4		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,1,2,2-Tetrachloroethane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,2,3-Trichlorobenzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Hexachlorobutadiene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Naphthalene	5.5	U *3	5.5		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
o-Xylene	2.1	U *3	2.1		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
2-Chlorotoluene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,2-Dichlorobenzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,2,4-Trimethylbenzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,2-Dibromo-3-Chloropropane	8.4	U *3	8.4		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,2,3-Trichloropropane	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Ethyl methacrylate	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
tert-Butylbenzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Isopropylbenzene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
4-Isopropyltoluene	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Xylenes, Total	4.2	U	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,2-Dichloroethene, Total	4.2	U	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
1,3-Dichloropropene, Total	4.2	U *3	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Trihalomethanes, Total	8.4	U *3	8.4		ug/Kg		04/23/24 15:04	04/24/24 13:35	1
Total BTEX	4.2	U	4.2		ug/Kg		04/23/24 15:04	04/24/24 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*	**3*	*58 - 140*	*04/23/24 15:04*	*04/24/24 13:35*	*1*
Dibromofluoromethane (Surr)	*105*	**3*	*75 - 121*	*04/23/24 15:04*	*04/24/24 13:35*	*1*
Toluene-d8 (Surr)	*99*	**3*	*80 - 126*	*04/23/24 15:04*	*04/24/24 13:35*	*1*
4-Bromofluorobenzene (Surr)	*98*	**3*	*76 - 127*	*04/23/24 15:04*	*04/24/24 13:35*	*1*

Client Sample ID: SS-02-04222024
Lab Sample ID: 280-190468-2
Date Collected: 04/22/24 11:05
Matrix: Solid
Date Received: 04/23/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Styrene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
cis-1,3-Dichloropropene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
trans-1,3-Dichloropropene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
N-Propylbenzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
n-Butylbenzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
4-Chlorotoluene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1

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

Client Sample ID: SS-02-04222024
Lab Sample ID: 280-190468-2
Date Collected: 04/22/24 11:05
Matrix: Solid
Date Received: 04/23/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Ethylene Dibromide	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
3-Chloro-1-propene	8.3	U	8.3		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,2-Dichloroethane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Vinyl acetate	8.3	U	8.3		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
4-Methyl-2-pentanone (MIBK)	17	U	17		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,3,5-Trimethylbenzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Bromobenzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Methylcyclohexane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Toluene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Chlorobenzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Tetrahydrofuran	17	U	17		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Hexane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Cyclohexane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,2,4-Trichlorobenzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Chlorodibromomethane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Tetrachloroethene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
sec-Butylbenzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,3-Dichloropropane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
cis-1,2-Dichloroethene	2.1	U	2.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
trans-1,2-Dichloroethene	2.1	U	2.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Methyl tert-butyl ether	17	U	17		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
m-Xylene & p-Xylene	2.1	U	2.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,3-Dichlorobenzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Carbon tetrachloride	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,1-Dichloropropene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
2-Hexanone	17	U	17		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
2,2-Dichloropropane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Ethyl ether	8.3	U	8.3		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,1,1,2-Tetrachloroethane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Acetone	66	U	66		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Chloroform	8.3	U	8.3		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Benzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,1,1-Trichloroethane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Bromomethane	8.3	U	8.3		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Chloromethane	8.3	U	8.3		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Iodomethane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Dibromomethane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Chlorobromomethane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Chloroethane	8.3	U	8.3		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Vinyl chloride	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Methylene Chloride	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Carbon disulfide	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Bromoform	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Dichlorobromomethane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,1-Dichloroethane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,1-Dichloroethene	4.1	U *-	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Trichlorofluoromethane	8.3	U	8.3		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Dichlorodifluoromethane	8.3	U	8.3		ug/Kg		04/23/24 15:04	04/24/24 13:55	1

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

Client Sample ID: SS-02-04222024
Date Collected: 04/22/24 11:05
Date Received: 04/23/24 08:00

Lab Sample ID: 280-190468-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	17	U	17		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,2-Dichloropropane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
2-Butanone (MEK)	17	U	17		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,1,2-Trichloroethane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Trichloroethene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Methyl acetate	8.3	U	8.3		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,1,2,2-Tetrachloroethane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,2,3-Trichlorobenzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Hexachlorobutadiene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Naphthalene	5.5	U	5.5		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
o-Xylene	2.1	U	2.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
2-Chlorotoluene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,2-Dichlorobenzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,2,4-Trimethylbenzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,2-Dibromo-3-Chloropropane	8.3	U	8.3		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,2,3-Trichloropropane	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Ethyl methacrylate	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
tert-Butylbenzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Isopropylbenzene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
4-Isopropyltoluene	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Xylenes, Total	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,2-Dichloroethene, Total	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
1,3-Dichloropropene, Total	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Trihalomethanes, Total	8.3	U	8.3		ug/Kg		04/23/24 15:04	04/24/24 13:55	1
Total BTEX	4.1	U	4.1		ug/Kg		04/23/24 15:04	04/24/24 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*	*04/23/24 15:04*	*04/24/24 13:55*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*04/23/24 15:04*	*04/24/24 13:55*	*1*
Toluene-d8 (Surr)	*101*		*80 - 126*	*04/23/24 15:04*	*04/24/24 13:55*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*04/23/24 15:04*	*04/24/24 13:55*	*1*

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190468-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	**Client Sample ID**	**(58-140)**	**(75-121)**	**(80-126)**	**(76-127)**
280-190468-1	SS-01-04222024	121 *3	105 *3	99 *3	98 *3
280-190468-2	SS-02-04222024	104	98	101	103
LCS 280-650657/2-A	Lab Control Sample	104	99	100	102
LCSD 280-650657/3-A	Lab Control Sample Dup	104	100	101	102
MB 280-650657/1-A	Method Blank	104	98	101	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-650657/1-A
Matrix: Solid
Analysis Batch: 650746

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 650657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Styrene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
N-Propylbenzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
n-Butylbenzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
4-Chlorotoluene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Ethylene Dibromide	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
3-Chloro-1-propene	10	U	10		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Vinyl acetate	10	U	10		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,3,5-Trimethylbenzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Bromobenzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Methylcyclohexane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Toluene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Chlorobenzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Tetrahydrofuran	20	U	20		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Hexane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Cyclohexane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Chlorodibromomethane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Tetrachloroethene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
sec-Butylbenzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,3-Dichloropropane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
cis-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
trans-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Methyl tert-butyl ether	20	U	20		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
m-Xylene & p-Xylene	2.5	U	2.5		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Carbon tetrachloride	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,1-Dichloropropene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
2-Hexanone	20	U	20		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
2,2-Dichloropropane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Ethyl ether	10	U	10		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,1,1,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Acetone	80	U	80		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Chloroform	10	U	10		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Benzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Bromomethane	10	U	10		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Chloromethane	10	U	10		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Iodomethane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Dibromomethane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Chlorobromomethane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Chloroethane	10	U	10		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Vinyl chloride	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1

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

Lab Sample ID: MB 280-650657/1-A
Matrix: Solid
Analysis Batch: 650746

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 650657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Carbon disulfide	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Bromoform	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Dichlorobromomethane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,1-Dichloroethane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Trichlorofluoromethane	10	U	10		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Dichlorodifluoromethane	10	U	10		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
2-Butanone (MEK)	20	U	20		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Trichloroethene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Methyl acetate	10	U	10		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,2,3-Trichlorobenzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Hexachlorobutadiene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Naphthalene	6.6	U	6.6		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
o-Xylene	2.5	U	2.5		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
2-Chlorotoluene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,2,4-Trimethylbenzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,2,3-Trichloropropane	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Ethyl methacrylate	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
tert-Butylbenzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Isopropylbenzene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
4-Isopropyltoluene	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Xylenes, Total	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,2-Dichloroethene, Total	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
1,3-Dichloropropene, Total	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Trihalomethanes, Total	10	U	10		ug/Kg		04/23/24 15:04	04/24/24 13:16	1
Total BTEX	5.0	U	5.0		ug/Kg		04/23/24 15:04	04/24/24 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*	*04/23/24 15:04*	*04/24/24 13:16*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*04/23/24 15:04*	*04/24/24 13:16*	*1*
Toluene-d8 (Surr)	*101*		*80 - 126*	*04/23/24 15:04*	*04/24/24 13:16*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 127*	*04/23/24 15:04*	*04/24/24 13:16*	*1*

Lab Sample ID: LCS 280-650657/2-A
Matrix: Solid
Analysis Batch: 650746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 650657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	42.8		ug/Kg		86	73 - 125
Styrene	50.0	45.6		ug/Kg		91	76 - 135
cis-1,3-Dichloropropene	50.0	45.8		ug/Kg		92	71 - 135

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

Lab Sample ID: LCS 280-650657/2-A
Matrix: Solid
Analysis Batch: 650746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 650657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	50.0	46.2		ug/Kg		92	71 - 135
N-Propylbenzene	50.0	44.2		ug/Kg		88	67 - 135
n-Butylbenzene	50.0	44.9		ug/Kg		90	68 - 135
4-Chlorotoluene	50.0	44.4		ug/Kg		89	68 - 135
1,4-Dichlorobenzene	50.0	44.3		ug/Kg		89	73 - 135
Ethylene Dibromide	50.0	45.3		ug/Kg		91	76 - 135
3-Chloro-1-propene	50.0	40.6		ug/Kg		81	50 - 150
1,2-Dichloroethane	50.0	45.6		ug/Kg		91	69 - 135
Vinyl acetate	100	95.9		ug/Kg		96	54 - 165
4-Methyl-2-pentanone (MIBK)	200	187		ug/Kg		94	69 - 150
1,3,5-Trimethylbenzene	50.0	44.3		ug/Kg		89	65 - 135
Bromobenzene	50.0	43.9		ug/Kg		88	72 - 135
Methylcyclohexane	50.0	44.1		ug/Kg		88	50 - 150
Toluene	50.0	45.6		ug/Kg		91	77 - 122
Chlorobenzene	50.0	44.4		ug/Kg		89	78 - 135
Tetrahydrofuran	100	91.4		ug/Kg		91	50 - 150
Hexane	50.0	39.1		ug/Kg		78	50 - 150
Cyclohexane	50.0	41.6		ug/Kg		83	50 - 150
1,2,4-Trichlorobenzene	50.0	42.3		ug/Kg		85	65 - 135
Chlorodibromomethane	50.0	46.6		ug/Kg		93	77 - 135
Tetrachloroethene	50.0	43.6		ug/Kg		87	76 - 135
sec-Butylbenzene	50.0	44.2		ug/Kg		88	69 - 135
1,3-Dichloropropane	50.0	46.1		ug/Kg		92	74 - 135
cis-1,2-Dichloroethene	50.0	43.5		ug/Kg		87	76 - 135
trans-1,2-Dichloroethene	50.0	43.0		ug/Kg		86	77 - 135
Methyl tert-butyl ether	50.0	43.2		ug/Kg		86	71 - 141
m-Xylene & p-Xylene	50.0	44.5		ug/Kg		89	77 - 135
1,3-Dichlorobenzene	50.0	44.4		ug/Kg		89	69 - 135
Carbon tetrachloride	50.0	45.2		ug/Kg		90	69 - 138
1,1-Dichloropropene	50.0	44.4		ug/Kg		89	72 - 135
2-Hexanone	200	186		ug/Kg		93	67 - 150
2,2-Dichloropropane	50.0	39.9		ug/Kg		80	69 - 135
Ethyl ether	50.0	43.7		ug/Kg		87	50 - 150
1,1,1,2-Tetrachloroethane	50.0	46.1		ug/Kg		92	76 - 135
Acetone	200	215		ug/Kg		108	65 - 150
Chloroform	50.0	44.7		ug/Kg		89	73 - 123
Benzene	50.0	44.2		ug/Kg		88	75 - 135
1,1,1-Trichloroethane	50.0	42.6		ug/Kg		85	70 - 135
Bromomethane	50.0	35.7		ug/Kg		71	52 - 135
Chloromethane	50.0	38.2		ug/Kg		76	41 - 138
Iodomethane	50.0	39.7		ug/Kg		79	74 - 142
Dibromomethane	50.0	45.3		ug/Kg		91	73 - 135
Chlorobromomethane	50.0	43.8		ug/Kg		88	74 - 135
Chloroethane	50.0	35.2		ug/Kg		70	51 - 145
Vinyl chloride	50.0	34.8		ug/Kg		70	43 - 145
Methylene Chloride	50.0	42.0		ug/Kg		84	76 - 136
Carbon disulfide	50.0	38.1		ug/Kg		76	45 - 150
Bromoform	50.0	45.6		ug/Kg		91	77 - 135
Dichlorobromomethane	50.0	45.7		ug/Kg		91	73 - 135

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

Lab Sample ID: LCS 280-650657/2-A
Matrix: Solid
Analysis Batch: 650746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 650657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	50.0	44.7		ug/Kg		89	70 - 135
1,1-Dichloroethene	50.0	39.6		ug/Kg		79	79 - 135
Trichlorofluoromethane	50.0	34.8		ug/Kg		70	48 - 150
Dichlorodifluoromethane	50.0	27.4		ug/Kg		55	32 - 152
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	34.2		ug/Kg		68	50 - 150
1,2-Dichloropropane	50.0	44.7		ug/Kg		89	72 - 121
2-Butanone (MEK)	200	180		ug/Kg		90	45 - 177
1,1,2-Trichloroethane	50.0	45.4		ug/Kg		91	78 - 135
Trichloroethene	50.0	44.1		ug/Kg		88	77 - 135
Methyl acetate	100	88.8		ug/Kg		89	50 - 150
1,1,2,2-Tetrachloroethane	50.0	45.9		ug/Kg		92	65 - 135
1,2,3-Trichlorobenzene	50.0	42.7		ug/Kg		85	62 - 135
Hexachlorobutadiene	50.0	40.0		ug/Kg		80	52 - 151
Naphthalene	50.0	45.0		ug/Kg		90	65 - 135
o-Xylene	50.0	41.8		ug/Kg		84	75 - 135
2-Chlorotoluene	50.0	44.1		ug/Kg		88	67 - 135
1,2-Dichlorobenzene	50.0	44.2		ug/Kg		88	73 - 135
1,2,4-Trimethylbenzene	50.0	41.2		ug/Kg		82	67 - 135
1,2-Dibromo-3-Chloropropane	50.0	39.9		ug/Kg		80	66 - 150
1,2,3-Trichloropropane	50.0	46.3		ug/Kg		93	65 - 135
Ethyl methacrylate	50.0	47.4		ug/Kg		95	50 - 150
tert-Butylbenzene	50.0	44.3		ug/Kg		89	66 - 135
Isopropylbenzene	50.0	45.1		ug/Kg		90	74 - 137
4-Isopropyltoluene	50.0	45.0		ug/Kg		90	66 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*
Dibromofluoromethane (Surr)	*99*		*75 - 121*
Toluene-d8 (Surr)	*100*		*80 - 126*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*

Lab Sample ID: LCSD 280-650657/3-A
Matrix: Solid
Analysis Batch: 650746

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 650657

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	50.0	45.0		ug/Kg		90	73 - 125	5	20
Styrene	50.0	48.4		ug/Kg		97	76 - 135	6	20
cis-1,3-Dichloropropene	50.0	48.8		ug/Kg		98	71 - 135	6	20
trans-1,3-Dichloropropene	50.0	49.0		ug/Kg		98	71 - 135	6	20
N-Propylbenzene	50.0	46.3		ug/Kg		93	67 - 135	5	22
n-Butylbenzene	50.0	47.4		ug/Kg		95	68 - 135	5	21
4-Chlorotoluene	50.0	46.9		ug/Kg		94	68 - 135	6	20
1,4-Dichlorobenzene	50.0	46.8		ug/Kg		94	73 - 135	6	22
Ethylene Dibromide	50.0	48.8		ug/Kg		98	76 - 135	7	20
3-Chloro-1-propene	50.0	42.5		ug/Kg		85	50 - 150	4	30
1,2-Dichloroethane	50.0	48.0		ug/Kg		96	69 - 135	5	20
Vinyl acetate	100	96.9		ug/Kg		97	54 - 165	1	27

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

Lab Sample ID: LCSD 280-650657/3-A
Matrix: Solid
Analysis Batch: 650746

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 650657

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	200	201		ug/Kg		101	69 - 150	7	25
1,3,5-Trimethylbenzene	50.0	46.3		ug/Kg		93	65 - 135	4	21
Bromobenzene	50.0	46.6		ug/Kg		93	72 - 135	6	22
Methylcyclohexane	50.0	45.1		ug/Kg		90	50 - 150	2	30
Toluene	50.0	47.6		ug/Kg		95	77 - 122	4	20
Chlorobenzene	50.0	47.2		ug/Kg		94	78 - 135	6	20
Tetrahydrofuran	100	96.5		ug/Kg		97	50 - 150	5	30
Hexane	50.0	40.3		ug/Kg		81	50 - 150	3	35
Cyclohexane	50.0	41.1		ug/Kg		82	50 - 150	1	30
1,2,4-Trichlorobenzene	50.0	45.5		ug/Kg		91	65 - 135	7	26
Chlorodibromomethane	50.0	50.0		ug/Kg		100	77 - 135	7	20
Tetrachloroethene	50.0	45.5		ug/Kg		91	76 - 135	4	20
sec-Butylbenzene	50.0	46.7		ug/Kg		93	69 - 135	6	22
1,3-Dichloropropane	50.0	49.5		ug/Kg		99	74 - 135	7	20
cis-1,2-Dichloroethene	50.0	45.7		ug/Kg		91	76 - 135	5	20
trans-1,2-Dichloroethene	50.0	44.0		ug/Kg		88	77 - 135	2	20
Methyl tert-butyl ether	50.0	41.3		ug/Kg		83	71 - 141	5	20
m-Xylene & p-Xylene	50.0	47.2		ug/Kg		94	77 - 135	6	20
1,3-Dichlorobenzene	50.0	47.0		ug/Kg		94	69 - 135	6	20
Carbon tetrachloride	50.0	46.3		ug/Kg		93	69 - 138	2	20
1,1-Dichloropropene	50.0	45.7		ug/Kg		91	72 - 135	3	20
2-Hexanone	200	202		ug/Kg		101	67 - 150	8	29
2,2-Dichloropropane	50.0	41.3		ug/Kg		83	69 - 135	3	20
Ethyl ether	50.0	46.7		ug/Kg		93	50 - 150	7	20
1,1,1,2-Tetrachloroethane	50.0	49.3		ug/Kg		99	76 - 135	7	20
Acetone	200	219		ug/Kg		109	65 - 150	2	28
Chloroform	50.0	46.5		ug/Kg		93	73 - 123	4	20
Benzene	50.0	46.6		ug/Kg		93	75 - 135	5	20
1,1,1-Trichloroethane	50.0	44.3		ug/Kg		89	70 - 135	4	20
Bromomethane	50.0	36.1		ug/Kg		72	52 - 135	1	22
Chloromethane	50.0	39.1		ug/Kg		78	41 - 138	2	25
Iodomethane	50.0	43.0		ug/Kg		86	74 - 142	8	25
Dibromomethane	50.0	48.0		ug/Kg		96	73 - 135	6	20
Chlorobromomethane	50.0	46.2		ug/Kg		92	74 - 135	5	21
Chloroethane	50.0	40.0		ug/Kg		80	51 - 145	13	22
Vinyl chloride	50.0	37.8		ug/Kg		76	43 - 145	8	24
Methylene Chloride	50.0	45.2		ug/Kg		90	76 - 136	7	21
Carbon disulfide	50.0	38.5		ug/Kg		77	45 - 150	1	24
Bromoform	50.0	51.2		ug/Kg		102	77 - 135	11	20
Dichlorobromomethane	50.0	48.1		ug/Kg		96	73 - 135	5	20
1,1-Dichloroethane	50.0	46.4		ug/Kg		93	70 - 135	4	20
1,1-Dichloroethene	50.0	38.7	*-	ug/Kg		77	79 - 135	2	20
Trichlorofluoromethane	50.0	38.7		ug/Kg		77	48 - 150	11	33
Dichlorodifluoromethane	50.0	29.0		ug/Kg		58	32 - 152	6	28
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	33.3		ug/Kg		67	50 - 150	3	20
1,2-Dichloropropane	50.0	47.5		ug/Kg		95	72 - 121	6	20
2-Butanone (MEK)	200	193		ug/Kg		96	45 - 177	7	32
1,1,2-Trichloroethane	50.0	48.3		ug/Kg		97	78 - 135	6	20

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

Lab Sample ID: LCSD 280-650657/3-A
Matrix: Solid
Analysis Batch: 650746

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 650657

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene	50.0	46.3		ug/Kg		93	77 - 135	5	20
Methyl acetate	100	95.8		ug/Kg		96	50 - 150	8	30
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/Kg		99	65 - 135	7	21
1,2,3-Trichlorobenzene	50.0	46.0		ug/Kg		92	62 - 135	7	31
Hexachlorobutadiene	50.0	42.5		ug/Kg		85	52 - 151	6	25
Naphthalene	50.0	49.0		ug/Kg		98	65 - 135	9	38
o-Xylene	50.0	43.8		ug/Kg		88	75 - 135	5	20
2-Chlorotoluene	50.0	46.9		ug/Kg		94	67 - 135	6	22
1,2-Dichlorobenzene	50.0	47.6		ug/Kg		95	73 - 135	8	20
1,2,4-Trimethylbenzene	50.0	43.3		ug/Kg		87	67 - 135	5	20
1,2-Dibromo-3-Chloropropane	50.0	43.6		ug/Kg		87	66 - 150	9	28
1,2,3-Trichloropropane	50.0	50.2		ug/Kg		100	65 - 135	8	21
Ethyl methacrylate	50.0	51.0		ug/Kg		102	50 - 150	7	30
tert-Butylbenzene	50.0	46.6		ug/Kg		93	66 - 135	5	22
Isopropylbenzene	50.0	47.2		ug/Kg		94	74 - 137	5	20
4-Isopropyltoluene	50.0	47.3		ug/Kg		95	66 - 135	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*
Dibromofluoromethane (Surr)	*100*		*75 - 121*
Toluene-d8 (Surr)	*101*		*80 - 126*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190468-1

GC/MS VOA

Prep Batch: 650657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190468-1	SS-01-04222024	Total/NA	Solid	5035	
280-190468-2	SS-02-04222024	Total/NA	Solid	5035	
MB 280-650657/1-A	Method Blank	Total/NA	Solid	5035	
LCS 280-650657/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-650657/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 650746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190468-1	SS-01-04222024	Total/NA	Solid	8260D	650657
280-190468-2	SS-02-04222024	Total/NA	Solid	8260D	650657
MB 280-650657/1-A	Method Blank	Total/NA	Solid	8260D	650657
LCS 280-650657/2-A	Lab Control Sample	Total/NA	Solid	8260D	650657
LCSD 280-650657/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	650657

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190468-1

Client Sample ID: SS-01-04222024

Lab Sample ID: 280-190468-1

Date Collected: 04/22/24 10:58
Matrix: Solid
Date Received: 04/23/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.980 g	5 mL	650657	04/23/24 15:04	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	650746	04/24/24 13:35	JLS	EET DEN

Client Sample ID: SS-02-04222024

Lab Sample ID: 280-190468-2

Date Collected: 04/22/24 11:05
Matrix: Solid
Date Received: 04/23/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.032 g	5 mL	650657	04/23/24 15:04	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	650746	04/24/24 13:55	JLS	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Job ID: 280-190468-1
Project/Site: ABC Cleaners, NC

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-07	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins

Client Information	Sampler: Rene Ramos	Lab PM: Norton, Michael R	Carrier Tracking No(s):	COC No:
Client Contact: Sanita Corum	Phone:	E-Mail: Michael.Norton@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 1
Company: EA Engineering, Science, and Technology, Inc., PBC	PWSID:			Job #: 6347505.030000
Address: 225 Schilling Circle Suite 400	Due Date Requested:			
City: Hunt Valley	TAT Requested (days): 5			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-329-5155 (Tel)	PO #: 24987			
Email: northeastap@eaest.com	WO #			
Project Name: ABC Cleaners, NC	Project #: 28024283			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D, VOCs, Standard List										Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	N	N	N	N	CB	B	N		
SS-01-04222024	4/22/24	10:52	G	S			X										1	5-Day TAT
SS-02-04222024	4/22/24	11:05	G	S			X										1	5-Day TAT

280-190468 Chain of Custody

Possible Hazard Identification
☐ x Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ x Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
RENE RAMOS /RR	04-23-24 1010	EAI		4/23/24 0800	EETDEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody seal #: 2396817

Cooler Temperature(s) °C and Other Remarks: 5.8° ctoil IR4

Ver: 01/16/2019

eurofins | Environment Testing TestAmerica

2396817

FedEx.

TRK# 0200 8172 9130 3060

TUE - 23 APR 8:30A
FIRST OVERNIGHT
DSR

X1 LAAA

80002
CO-US
DEN

816238 22Apr2024 EMMA 581G6/8FEC/C0B8

280-190468 Waybill

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 280-190468-1

Login Number: 190468
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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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ANALYTICAL REPORT

PREPARED FOR

Attn: Sanita Corum
EA Engineering, Science, and Technology
225 Schilling Circle
Suite 400
Hunt Valley, Maryland 21031

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JOB DESCRIPTION

ABC Cleaners, NC

JOB NUMBER

280-190830-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

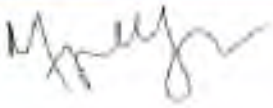
myEOL

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 TestAmerica Project Manager.

Authorization



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Authorized for release by
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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Job ID: 280-190830-1
Project/Site: ABC Cleaners, NC

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
280-190830-1

REVISION

The report being provided is a revision of the original report sent on 5/10/2024. The report (revision 1) is being revised due to Client changed the ID from SUE to SVE.

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 1, MAY 16, 2024
The data package was revised to reflect the correct sample IDs. All sample IDs changed from "SUE" to "SVE".

Receipt
The samples were received on 5/1/2024 8:10 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 4.8°C.

GC/MS VOA
Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-651690 and analytical batch 280-652565.

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

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

Detection Summary

Client: EA Engineering, Science, and Technology
Job ID: 280-190830-1
Project/Site: ABC Cleaners, NC

Client Sample ID: Post-SO-Shallow SVE-1-04302024 — Lab Sample ID: 280-190830-1

No Detections.

Client Sample ID: Post-SO-Shallow SVE-2-04302024 — Lab Sample ID: 280-190830-2

No Detections.

Client Sample ID: Post-SO-Shallow SVE-3-04302024 — Lab Sample ID: 280-190830-3

No Detections.

Client Sample ID: Post-SO-Shallow SVE-4-04302024 — Lab Sample ID: 280-190830-4

No Detections.

Client Sample ID: Post-SO-Shallow SVE-5-04302024 — Lab Sample ID: 280-190830-5

No Detections.

Client Sample ID: Post-SO-Shallow SVE-6-04302024 — Lab Sample ID: 280-190830-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	8.7		5.3		ug/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190830-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
Moisture	Percent Moisture	EPA	EET DEN
5035	Closed System Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190830-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-190830-1	Post-SO-Shallow SVE-1-04302024	Solid	04/30/24 11:30	05/01/24 08:10
280-190830-2	Post-SO-Shallow SVE-2-04302024	Solid	04/30/24 11:45	05/01/24 08:10
280-190830-3	Post-SO-Shallow SVE-3-04302024	Solid	04/30/24 12:00	05/01/24 08:10
280-190830-4	Post-SO-Shallow SVE-4-04302024	Solid	04/30/24 12:15	05/01/24 08:10
280-190830-5	Post-SO-Shallow SVE-5-04302024	Solid	04/30/24 12:30	05/01/24 08:10
280-190830-6	Post-SO-Shallow SVE-6-04302024	Solid	04/30/24 12:45	05/01/24 08:10

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

Client Sample ID: Post-SO-Shallow SVE-1-04302024
Date Collected: 04/30/24 11:30
Date Received: 05/01/24 08:10

Lab Sample ID: 280-190830-1
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Styrene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
cis-1,3-Dichloropropene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
trans-1,3-Dichloropropene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
N-Propylbenzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
n-Butylbenzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
4-Chlorotoluene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,4-Dichlorobenzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Ethylene Dibromide	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
3-Chloro-1-propene	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,2-Dichloroethane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Vinyl acetate	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
4-Methyl-2-pentanone (MIBK)	22	U	22		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,3,5-Trimethylbenzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Bromobenzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Methylcyclohexane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Toluene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Chlorobenzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Tetrahydrofuran	22	U	22		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Hexane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Cyclohexane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,2,4-Trichlorobenzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Chlorodibromomethane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Tetrachloroethene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
sec-Butylbenzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,3-Dichloropropane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
cis-1,2-Dichloroethene	2.7	U	2.7		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
trans-1,2-Dichloroethene	2.7	U	2.7		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Methyl tert-butyl ether	22	U	22		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
m-Xylene & p-Xylene	2.7	U	2.7		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,3-Dichlorobenzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Carbon tetrachloride	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,1-Dichloropropene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
2-Hexanone	22	U	22		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
2,2-Dichloropropane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Ethyl ether	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,1,1,2-Tetrachloroethane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Acetone	87	U	87		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Chloroform	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Benzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,1,1-Trichloroethane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Bromomethane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Chloromethane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Iodomethane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Dibromomethane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Chlorobromomethane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Chloroethane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Vinyl chloride	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Methylene Chloride	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1

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

Client Sample ID: Post-SO-Shallow SVE-1-04302024 — **Lab Sample ID: 280-190830-1**
Date Collected: 04/30/24 11:30 — **Matrix: Solid**
Date Received: 05/01/24 08:10 — **Percent Solids: 85.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Bromoform	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Dichlorobromomethane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,1-Dichloroethane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,1-Dichloroethene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Trichlorofluoromethane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Dichlorodifluoromethane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,2-Dichloropropane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
2-Butanone (MEK)	22	U	22		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,1,2-Trichloroethane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Trichloroethene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Methyl acetate	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,1,2,2-Tetrachloroethane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,2,3-Trichlorobenzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Hexachlorobutadiene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Naphthalene	7.2	U	7.2		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
o-Xylene	2.7	U	2.7		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
2-Chlorotoluene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,2-Dichlorobenzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,2,4-Trimethylbenzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,2,3-Trichloropropane	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Ethyl methacrylate	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
tert-Butylbenzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Isopropylbenzene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
4-Isopropyltoluene	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Xylenes, Total	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,2-Dichloroethene, Total	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
1,3-Dichloropropene, Total	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Trihalomethanes, Total	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1
Total BTEX	5.4	U	5.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*58 - 140*	*05/01/24 11:44*	*05/08/24 15:28*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 121*	*05/01/24 11:44*	*05/08/24 15:28*	*1*
Toluene-d8 (Surr)	*121*		*80 - 126*	*05/01/24 11:44*	*05/08/24 15:28*	*1*
4-Bromofluorobenzene (Surr)	*122*		*76 - 127*	*05/01/24 11:44*	*05/08/24 15:28*	*1*

Client Sample ID: Post-SO-Shallow SVE-2-04302024 — **Lab Sample ID: 280-190830-2**
Date Collected: 04/30/24 11:45 — **Matrix: Solid**
Date Received: 05/01/24 08:10 — **Percent Solids: 86.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Styrene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
cis-1,3-Dichloropropene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
trans-1,3-Dichloropropene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
N-Propylbenzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
n-Butylbenzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
4-Chlorotoluene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1

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

Client Sample ID: Post-SO-Shallow SVE-2-04302024
Lab Sample ID: 280-190830-2
Date Collected: 04/30/24 11:45
Matrix: Solid
Date Received: 05/01/24 08:10
Percent Solids: 86.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Ethylene Dibromide	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
3-Chloro-1-propene	9.6	U	9.6		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,2-Dichloroethane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Vinyl acetate	9.6	U	9.6		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
4-Methyl-2-pentanone (MIBK)	19	U	19		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,3,5-Trimethylbenzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Bromobenzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Methylcyclohexane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Toluene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Chlorobenzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Tetrahydrofuran	19	U	19		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Hexane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Cyclohexane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,2,4-Trichlorobenzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Chlorodibromomethane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Tetrachloroethene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
sec-Butylbenzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,3-Dichloropropane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
cis-1,2-Dichloroethene	2.4	U	2.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
trans-1,2-Dichloroethene	2.4	U	2.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Methyl tert-butyl ether	19	U	19		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
m-Xylene & p-Xylene	2.4	U	2.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,3-Dichlorobenzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Carbon tetrachloride	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,1-Dichloropropene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
2-Hexanone	19	U	19		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
2,2-Dichloropropane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Ethyl ether	9.6	U	9.6		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,1,1,2-Tetrachloroethane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Acetone	77	U	77		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Chloroform	9.6	U	9.6		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Benzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,1,1-Trichloroethane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Bromomethane	9.6	U	9.6		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Chloromethane	9.6	U	9.6		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Iodomethane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Dibromomethane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Chlorobromomethane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Chloroethane	9.6	U	9.6		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Vinyl chloride	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Methylene Chloride	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Carbon disulfide	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Bromoform	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Dichlorobromomethane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,1-Dichloroethane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,1-Dichloroethene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Trichlorofluoromethane	9.6	U	9.6		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Dichlorodifluoromethane	9.6	U	9.6		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1

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

Client Sample ID: Post-SO-Shallow SVE-2-04302024
Date Collected: 04/30/24 11:45
Date Received: 05/01/24 08:10
Lab Sample ID: 280-190830-2
Matrix: Solid
Percent Solids: 86.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	19	U	19		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,2-Dichloropropane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
2-Butanone (MEK)	19	U	19		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,1,2-Trichloroethane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Trichloroethene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Methyl acetate	9.6	U	9.6		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,1,2,2-Tetrachloroethane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,2,3-Trichlorobenzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Hexachlorobutadiene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Naphthalene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
o-Xylene	2.4	U	2.4		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
2-Chlorotoluene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,2-Dichlorobenzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,2,4-Trimethylbenzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,2-Dibromo-3-Chloropropane	9.6	U	9.6		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,2,3-Trichloropropane	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Ethyl methacrylate	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
tert-Butylbenzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Isopropylbenzene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
4-Isopropyltoluene	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Xylenes, Total	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,2-Dichloroethene, Total	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
1,3-Dichloropropene, Total	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Trihalomethanes, Total	9.6	U	9.6		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1
Total BTEX	4.8	U	4.8		ug/Kg	☼	05/01/24 11:44	05/08/24 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*58 - 140*	*05/01/24 11:44*	*05/08/24 15:48*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 121*	*05/01/24 11:44*	*05/08/24 15:48*	*1*
Toluene-d8 (Surr)	*118*		*80 - 126*	*05/01/24 11:44*	*05/08/24 15:48*	*1*
4-Bromofluorobenzene (Surr)	*114*		*76 - 127*	*05/01/24 11:44*	*05/08/24 15:48*	*1*

Client Sample ID: Post-SO-Shallow SVE-3-04302024
Date Collected: 04/30/24 12:00
Date Received: 05/01/24 08:10
Lab Sample ID: 280-190830-3
Matrix: Solid
Percent Solids: 88.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Styrene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
cis-1,3-Dichloropropene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
trans-1,3-Dichloropropene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
N-Propylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
n-Butylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
4-Chlorotoluene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,4-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Ethylene Dibromide	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
3-Chloro-1-propene	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,2-Dichloroethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Vinyl acetate	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
4-Methyl-2-pentanone (MIBK)	21	U	21		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,3,5-Trimethylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1

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

Client Sample ID: Post-SO-Shallow SVE-3-04302024
Lab Sample ID: 280-190830-3
Date Collected: 04/30/24 12:00
Matrix: Solid
Date Received: 05/01/24 08:10
Percent Solids: 88.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Methylcyclohexane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Toluene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Chlorobenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Tetrahydrofuran	21	U	21		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Hexane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Cyclohexane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,2,4-Trichlorobenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Chlorodibromomethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Tetrachloroethene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
sec-Butylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,3-Dichloropropane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
cis-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
trans-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Methyl tert-butyl ether	21	U	21		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
m-Xylene & p-Xylene	2.6	U	2.6		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,3-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Carbon tetrachloride	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,1-Dichloropropene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
2-Hexanone	21	U	21		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
2,2-Dichloropropane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Ethyl ether	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,1,1,2-Tetrachloroethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Acetone	84	U	84		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Chloroform	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Benzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,1,1-Trichloroethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Bromomethane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Chloromethane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Iodomethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Dibromomethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Chlorobromomethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Chloroethane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Vinyl chloride	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Methylene Chloride	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Carbon disulfide	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Bromoform	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Dichlorobromomethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,1-Dichloroethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,1-Dichloroethene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Trichlorofluoromethane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Dichlorodifluoromethane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,2-Dichloropropane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
2-Butanone (MEK)	21	U	21		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,1,2-Trichloroethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Trichloroethene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Methyl acetate	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,1,2,2-Tetrachloroethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1

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

Client Sample ID: Post-SO-Shallow SVE-3-04302024 — **Lab Sample ID: 280-190830-3**
Date Collected: 04/30/24 12:00 — **Matrix: Solid**
Date Received: 05/01/24 08:10 — **Percent Solids: 88.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Hexachlorobutadiene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Naphthalene	6.9	U	6.9		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
o-Xylene	2.6	U	2.6		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
2-Chlorotoluene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,2-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,2,4-Trimethylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,2,3-Trichloropropane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Ethyl methacrylate	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
tert-Butylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Isopropylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
4-Isopropyltoluene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Xylenes, Total	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,2-Dichloroethene, Total	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
1,3-Dichloropropene, Total	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Trihalomethanes, Total	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1
Total BTEX	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*58 - 140*	*05/01/24 11:44*	*05/08/24 16:08*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 121*	*05/01/24 11:44*	*05/08/24 16:08*	*1*
Toluene-d8 (Surr)	*110*		*80 - 126*	*05/01/24 11:44*	*05/08/24 16:08*	*1*
4-Bromofluorobenzene (Surr)	*116*		*76 - 127*	*05/01/24 11:44*	*05/08/24 16:08*	*1*

Client Sample ID: Post-SO-Shallow SVE-4-04302024 — **Lab Sample ID: 280-190830-4**
Date Collected: 04/30/24 12:15 — **Matrix: Solid**
Date Received: 05/01/24 08:10 — **Percent Solids: 88.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Styrene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
cis-1,3-Dichloropropene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
trans-1,3-Dichloropropene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
N-Propylbenzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
n-Butylbenzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
4-Chlorotoluene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,4-Dichlorobenzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Ethylene Dibromide	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
3-Chloro-1-propene	10	U	10		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,2-Dichloroethane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Vinyl acetate	10	U	10		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,3,5-Trimethylbenzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Bromobenzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Methylcyclohexane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Toluene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Chlorobenzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Tetrahydrofuran	20	U	20		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Hexane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Cyclohexane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1

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

Client Sample ID: Post-SO-Shallow SVE-4-04302024
Lab Sample ID: 280-190830-4
Date Collected: 04/30/24 12:15
Matrix: Solid
Date Received: 05/01/24 08:10
Percent Solids: 88.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Chlorodibromomethane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Tetrachloroethene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
sec-Butylbenzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,3-Dichloropropane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
cis-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
trans-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Methyl tert-butyl ether	20	U	20		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
m-Xylene & p-Xylene	2.6	U	2.6		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,3-Dichlorobenzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Carbon tetrachloride	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,1-Dichloropropene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
2-Hexanone	20	U	20		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
2,2-Dichloropropane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Ethyl ether	10	U	10		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,1,1,2-Tetrachloroethane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Acetone	82	U	82		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Chloroform	10	U	10		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Benzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,1,1-Trichloroethane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Bromomethane	10	U	10		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Chloromethane	10	U	10		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Iodomethane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Dibromomethane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Chlorobromomethane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Chloroethane	10	U	10		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Vinyl chloride	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Methylene Chloride	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Carbon disulfide	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Bromoform	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Dichlorobromomethane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,1-Dichloroethane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,1-Dichloroethene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Trichlorofluoromethane	10	U	10		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Dichlorodifluoromethane	10	U	10		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,2-Dichloropropane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
2-Butanone (MEK)	20	U	20		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,1,2-Trichloroethane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Trichloroethene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Methyl acetate	10	U	10		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,1,2,2-Tetrachloroethane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,2,3-Trichlorobenzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Hexachlorobutadiene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Naphthalene	6.7	U	6.7		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
o-Xylene	2.6	U	2.6		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
2-Chlorotoluene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,2-Dichlorobenzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,2,4-Trimethylbenzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1

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

Client Sample ID: Post-SO-Shallow SVE-4-04302024 — **Lab Sample ID: 280-190830-4**
Date Collected: 04/30/24 12:15 — **Matrix: Solid**
Date Received: 05/01/24 08:10 — **Percent Solids: 88.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,2,3-Trichloropropane	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Ethyl methacrylate	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
tert-Butylbenzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Isopropylbenzene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
4-Isopropyltoluene	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Xylenes, Total	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,2-Dichloroethene, Total	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
1,3-Dichloropropene, Total	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Trihalomethanes, Total	10	U	10		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1
Total BTEX	5.1	U	5.1		ug/Kg	☼	05/01/24 11:44	05/08/24 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*58 - 140*	*05/01/24 11:44*	*05/08/24 16:27*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 121*	*05/01/24 11:44*	*05/08/24 16:27*	*1*
Toluene-d8 (Surr)	*111*		*80 - 126*	*05/01/24 11:44*	*05/08/24 16:27*	*1*
4-Bromofluorobenzene (Surr)	*123*		*76 - 127*	*05/01/24 11:44*	*05/08/24 16:27*	*1*

Client Sample ID: Post-SO-Shallow SVE-5-04302024 — **Lab Sample ID: 280-190830-5**
Date Collected: 04/30/24 12:30 — **Matrix: Solid**
Date Received: 05/01/24 08:10 — **Percent Solids: 77.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Styrene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
cis-1,3-Dichloropropene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
trans-1,3-Dichloropropene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
N-Propylbenzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
n-Butylbenzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
4-Chlorotoluene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,4-Dichlorobenzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Ethylene Dibromide	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
3-Chloro-1-propene	13	U	13		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,2-Dichloroethane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Vinyl acetate	13	U	13		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
4-Methyl-2-pentanone (MIBK)	26	U	26		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,3,5-Trimethylbenzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Bromobenzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Methylcyclohexane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Toluene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Chlorobenzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Tetrahydrofuran	26	U	26		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Hexane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Cyclohexane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,2,4-Trichlorobenzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Chlorodibromomethane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Tetrachloroethene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
sec-Butylbenzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,3-Dichloropropane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
cis-1,2-Dichloroethene	3.2	U	3.2		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
trans-1,2-Dichloroethene	3.2	U	3.2		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1

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

Client Sample ID: Post-SO-Shallow SVE-5-04302024
Lab Sample ID: 280-190830-5
Date Collected: 04/30/24 12:30
Matrix: Solid
Date Received: 05/01/24 08:10
Percent Solids: 77.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	26	U	26		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
m-Xylene & p-Xylene	3.2	U	3.2		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,3-Dichlorobenzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Carbon tetrachloride	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,1-Dichloropropene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
2-Hexanone	26	U	26		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
2,2-Dichloropropane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Ethyl ether	13	U	13		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,1,1,2-Tetrachloroethane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Acetone	100	U	100		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Chloroform	13	U	13		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Benzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,1,1-Trichloroethane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Bromomethane	13	U	13		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Chloromethane	13	U	13		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Iodomethane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Dibromomethane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Chlorobromomethane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Chloroethane	13	U	13		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Vinyl chloride	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Methylene Chloride	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Carbon disulfide	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Bromoform	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Dichlorobromomethane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,1-Dichloroethane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,1-Dichloroethene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Trichlorofluoromethane	13	U	13		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Dichlorodifluoromethane	13	U	13		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	26	U	26		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,2-Dichloropropane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
2-Butanone (MEK)	26	U	26		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,1,2-Trichloroethane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Trichloroethene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Methyl acetate	13	U	13		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,1,2,2-Tetrachloroethane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,2,3-Trichlorobenzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Hexachlorobutadiene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Naphthalene	8.4	U	8.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
o-Xylene	3.2	U	3.2		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
2-Chlorotoluene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,2-Dichlorobenzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,2,4-Trimethylbenzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,2-Dibromo-3-Chloropropane	13	U	13		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,2,3-Trichloropropane	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Ethyl methacrylate	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
tert-Butylbenzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Isopropylbenzene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
4-Isopropyltoluene	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Xylenes, Total	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1

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

Client Sample ID: Post-SO-Shallow SVE-5-04302024 — **Lab Sample ID: 280-190830-5**
Date Collected: 04/30/24 12:30 — **Matrix: Solid**
Date Received: 05/01/24 08:10 — **Percent Solids: 77.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
1,3-Dichloropropene, Total	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Trihalomethanes, Total	13	U	13		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1
Total BTEX	6.4	U	6.4		ug/Kg	☼	05/01/24 11:44	05/08/24 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*58 - 140*	*05/01/24 11:44*	*05/08/24 16:47*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 121*	*05/01/24 11:44*	*05/08/24 16:47*	*1*
Toluene-d8 (Surr)	*110*		*80 - 126*	*05/01/24 11:44*	*05/08/24 16:47*	*1*
4-Bromofluorobenzene (Surr)	*126*		*76 - 127*	*05/01/24 11:44*	*05/08/24 16:47*	*1*

Client Sample ID: Post-SO-Shallow SVE-6-04302024 — **Lab Sample ID: 280-190830-6**
Date Collected: 04/30/24 12:45 — **Matrix: Solid**
Date Received: 05/01/24 08:10 — **Percent Solids: 87.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Styrene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
cis-1,3-Dichloropropene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
trans-1,3-Dichloropropene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
N-Propylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
n-Butylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
4-Chlorotoluene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,4-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Ethylene Dibromide	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
3-Chloro-1-propene	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,2-Dichloroethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Vinyl acetate	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
4-Methyl-2-pentanone (MIBK)	21	U	21		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,3,5-Trimethylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Bromobenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Methylcyclohexane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Toluene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Chlorobenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Tetrahydrofuran	21	U	21		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Hexane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Cyclohexane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,2,4-Trichlorobenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Chlorodibromomethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Tetrachloroethene	**8.7**		5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
sec-Butylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,3-Dichloropropane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
cis-1,2-Dichloroethene	2.7	U	2.7		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
trans-1,2-Dichloroethene	2.7	U	2.7		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Methyl tert-butyl ether	21	U	21		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
m-Xylene & p-Xylene	2.7	U	2.7		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,3-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Carbon tetrachloride	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,1-Dichloropropene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
2-Hexanone	21	U	21		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
2,2-Dichloropropane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1

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

Client Sample ID: Post-SO-Shallow SVE-6-04302024
Date Collected: 04/30/24 12:45
Date Received: 05/01/24 08:10

Lab Sample ID: 280-190830-6
Matrix: Solid
Percent Solids: 87.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,1,1,2-Tetrachloroethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Acetone	85	U	85		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Chloroform	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Benzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,1,1-Trichloroethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Bromomethane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Chloromethane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Iodomethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Dibromomethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Chlorobromomethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Chloroethane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Vinyl chloride	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Methylene Chloride	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Carbon disulfide	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Bromoform	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Dichlorobromomethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,1-Dichloroethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,1-Dichloroethene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Trichlorofluoromethane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Dichlorodifluoromethane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,2-Dichloropropane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
2-Butanone (MEK)	21	U	21		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,1,2-Trichloroethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Trichloroethene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Methyl acetate	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,1,2,2-Tetrachloroethane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,2,3-Trichlorobenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Hexachlorobutadiene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Naphthalene	7.0	U	7.0		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
o-Xylene	2.7	U	2.7		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
2-Chlorotoluene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,2-Dichlorobenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,2,4-Trimethylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,2,3-Trichloropropane	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Ethyl methacrylate	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
tert-Butylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Isopropylbenzene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
4-Isopropyltoluene	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Xylenes, Total	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,2-Dichloroethene, Total	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
1,3-Dichloropropene, Total	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Trihalomethanes, Total	11	U	11		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1
Total BTEX	5.3	U	5.3		ug/Kg	☼	05/01/24 11:44	05/08/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*58 - 140*	*05/01/24 11:44*	*05/08/24 17:06*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 121*	*05/01/24 11:44*	*05/08/24 17:06*	*1*

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

Client Sample ID: Post-SO-Shallow SVE-6-04302024 — **Lab Sample ID: 280-190830-6**
Date Collected: 04/30/24 12:45 — **Matrix: Solid**
Date Received: 05/01/24 08:10 — **Percent Solids: 87.1**

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*80 - 126*	*05/01/24 11:44*	*05/08/24 17:06*	*1*
4-Bromofluorobenzene (Surr)	*106*		*76 - 127*	*05/01/24 11:44*	*05/08/24 17:06*	*1*

General Chemistry

Client Sample ID: Post-SO-Shallow SVE-1-04302024 — **Lab Sample ID: 280-190830-1**
Date Collected: 04/30/24 11:30 — **Matrix: Solid**
Date Received: 05/01/24 08:10 — **Percent Solids: 85.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.1		0.1		%			05/03/24 16:08	1
Percent Solids (EPA Moisture)	85.9		0.1		%			05/03/24 16:08	1

Client Sample ID: Post-SO-Shallow SVE-2-04302024 — **Lab Sample ID: 280-190830-2**
Date Collected: 04/30/24 11:45 — **Matrix: Solid**
Date Received: 05/01/24 08:10 — **Percent Solids: 86.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.6		0.1		%			05/03/24 16:08	1
Percent Solids (EPA Moisture)	86.4		0.1		%			05/03/24 16:08	1

Client Sample ID: Post-SO-Shallow SVE-3-04302024 — **Lab Sample ID: 280-190830-3**
Date Collected: 04/30/24 12:00 — **Matrix: Solid**
Date Received: 05/01/24 08:10 — **Percent Solids: 88.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.6		0.1		%			05/03/24 16:08	1
Percent Solids (EPA Moisture)	88.4		0.1		%			05/03/24 16:08	1

Client Sample ID: Post-SO-Shallow SVE-4-04302024 — **Lab Sample ID: 280-190830-4**
Date Collected: 04/30/24 12:15 — **Matrix: Solid**
Date Received: 05/01/24 08:10 — **Percent Solids: 88.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.3		0.1		%			05/07/24 21:50	1
Percent Solids (EPA Moisture)	88.7		0.1		%			05/07/24 21:50	1

Client Sample ID: Post-SO-Shallow SVE-5-04302024 — **Lab Sample ID: 280-190830-5**
Date Collected: 04/30/24 12:30 — **Matrix: Solid**
Date Received: 05/01/24 08:10 — **Percent Solids: 77.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	22.3		0.1		%			05/07/24 21:50	1
Percent Solids (EPA Moisture)	77.7		0.1		%			05/07/24 21:50	1

Client Sample ID: Post-SO-Shallow SVE-6-04302024 — **Lab Sample ID: 280-190830-6**
Date Collected: 04/30/24 12:45 — **Matrix: Solid**
Date Received: 05/01/24 08:10 — **Percent Solids: 87.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.9		0.1		%			05/07/24 21:50	1
Percent Solids (EPA Moisture)	87.1		0.1		%			05/07/24 21:50	1

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190830-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(58-140)	(75-121)	(80-126)	(76-127)
280-190830-1	Post-SO-Shallow SVE-1-04302(	100	94	121	122
280-190830-2	Post-SO-Shallow SVE-2-04302024	101	93	118	114
280-190830-3	Post-SO-Shallow SVE-3-04302024	101	92	110	116
280-190830-4	Post-SO-Shallow SVE-4-04302024	107	95	111	123
280-190830-5	Post-SO-Shallow SVE-5-04302024	102	91	110	126
280-190830-6	Post-SO-Shallow SVE-6-04302024	99	92	111	106
LCS 280-651690/2-A	Lab Control Sample	95	91	105	106
LCSD 280-651690/3-A	Lab Control Sample Dup	98	94	104	107
MB 280-651690/1-A	Method Blank	100	91	105	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-651690/1-A
Matrix: Solid
Analysis Batch: 652565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 651690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Styrene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
N-Propylbenzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
n-Butylbenzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
4-Chlorotoluene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Ethylene Dibromide	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
3-Chloro-1-propene	10	U	10		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Vinyl acetate	10	U	10		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,3,5-Trimethylbenzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Bromobenzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Methylcyclohexane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Toluene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Chlorobenzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Tetrahydrofuran	20	U	20		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Hexane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Cyclohexane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Chlorodibromomethane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Tetrachloroethene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
sec-Butylbenzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,3-Dichloropropane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
cis-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
trans-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Methyl tert-butyl ether	20	U	20		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
m-Xylene & p-Xylene	2.5	U	2.5		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Carbon tetrachloride	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,1-Dichloropropene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
2-Hexanone	20	U	20		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
2,2-Dichloropropane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Ethyl ether	10	U	10		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,1,1,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Acetone	80	U	80		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Chloroform	10	U	10		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Benzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Bromomethane	10	U	10		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Chloromethane	10	U	10		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Iodomethane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Dibromomethane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Chlorobromomethane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Chloroethane	10	U	10		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Vinyl chloride	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1

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

Lab Sample ID: MB 280-651690/1-A
Matrix: Solid
Analysis Batch: 652565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 651690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Carbon disulfide	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Bromoform	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Dichlorobromomethane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,1-Dichloroethane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Trichlorofluoromethane	10	U	10		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Dichlorodifluoromethane	10	U	10		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
2-Butanone (MEK)	20	U	20		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Trichloroethene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Methyl acetate	10	U	10		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,2,3-Trichlorobenzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Hexachlorobutadiene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Naphthalene	6.6	U	6.6		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
o-Xylene	2.5	U	2.5		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
2-Chlorotoluene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,2,4-Trimethylbenzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,2,3-Trichloropropane	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Ethyl methacrylate	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
tert-Butylbenzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Isopropylbenzene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
4-Isopropyltoluene	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Xylenes, Total	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,2-Dichloroethene, Total	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
1,3-Dichloropropene, Total	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Trihalomethanes, Total	10	U	10		ug/Kg		05/01/24 11:44	05/08/24 15:09	1
Total BTEX	5.0	U	5.0		ug/Kg		05/01/24 11:44	05/08/24 15:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*58 - 140*	*05/01/24 11:44*	*05/08/24 15:09*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 121*	*05/01/24 11:44*	*05/08/24 15:09*	*1*
Toluene-d8 (Surr)	*105*		*80 - 126*	*05/01/24 11:44*	*05/08/24 15:09*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 127*	*05/01/24 11:44*	*05/08/24 15:09*	*1*

Lab Sample ID: LCS 280-651690/2-A
Matrix: Solid
Analysis Batch: 652565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 651690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	49.2		ug/Kg		98	73 - 125
Styrene	50.0	50.3		ug/Kg		101	76 - 135
cis-1,3-Dichloropropene	50.0	49.8		ug/Kg		100	71 - 135

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190830-1

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

Lab Sample ID: LCS 280-651690/2-A
Matrix: Solid
Analysis Batch: 652565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 651690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	50.0	43.7		ug/Kg		87	71 - 135
N-Propylbenzene	50.0	53.6		ug/Kg		107	67 - 135
n-Butylbenzene	50.0	52.3		ug/Kg		105	68 - 135
4-Chlorotoluene	50.0	51.2		ug/Kg		102	68 - 135
1,4-Dichlorobenzene	50.0	49.4		ug/Kg		99	73 - 135
Ethylene Dibromide	50.0	48.0		ug/Kg		96	76 - 135
3-Chloro-1-propene	50.0	40.5		ug/Kg		81	50 - 150
1,2-Dichloroethane	50.0	40.1		ug/Kg		80	69 - 135
Vinyl acetate	100	83.6		ug/Kg		84	54 - 165
4-Methyl-2-pentanone (MIBK)	200	166		ug/Kg		83	69 - 150
1,3,5-Trimethylbenzene	50.0	52.5		ug/Kg		105	65 - 135
Bromobenzene	50.0	51.3		ug/Kg		103	72 - 135
Methylcyclohexane	50.0	43.3		ug/Kg		87	50 - 150
Toluene	50.0	41.1		ug/Kg		82	77 - 122
Chlorobenzene	50.0	47.3		ug/Kg		95	78 - 135
Tetrahydrofuran	100	76.7		ug/Kg		77	50 - 150
Hexane	50.0	44.8		ug/Kg		90	50 - 150
Cyclohexane	50.0	43.8		ug/Kg		88	50 - 150
1,2,4-Trichlorobenzene	50.0	51.6		ug/Kg		103	65 - 135
Chlorodibromomethane	50.0	51.0		ug/Kg		102	77 - 135
Tetrachloroethene	50.0	47.7		ug/Kg		95	76 - 135
sec-Butylbenzene	50.0	51.7		ug/Kg		103	69 - 135
1,3-Dichloropropane	50.0	47.8		ug/Kg		96	74 - 135
cis-1,2-Dichloroethene	50.0	41.7		ug/Kg		83	76 - 135
trans-1,2-Dichloroethene	50.0	42.0		ug/Kg		84	77 - 135
Methyl tert-butyl ether	50.0	42.6		ug/Kg		85	71 - 141
m-Xylene & p-Xylene	50.0	49.1		ug/Kg		98	77 - 135
1,3-Dichlorobenzene	50.0	51.4		ug/Kg		103	69 - 135
Carbon tetrachloride	50.0	45.4		ug/Kg		91	69 - 138
1,1-Dichloropropene	50.0	42.6		ug/Kg		85	72 - 135
2-Hexanone	200	186		ug/Kg		93	67 - 150
2,2-Dichloropropane	50.0	46.8		ug/Kg		94	69 - 135
Ethyl ether	50.0	40.9		ug/Kg		82	50 - 150
1,1,1,2-Tetrachloroethane	50.0	50.7		ug/Kg		101	76 - 135
Acetone	200	162		ug/Kg		81	65 - 150
Chloroform	50.0	41.8		ug/Kg		84	73 - 123
Benzene	50.0	41.7		ug/Kg		83	75 - 135
1,1,1-Trichloroethane	50.0	44.9		ug/Kg		90	70 - 135
Bromomethane	50.0	40.3		ug/Kg		81	52 - 135
Chloromethane	50.0	39.4		ug/Kg		79	41 - 138
Iodomethane	50.0	41.3		ug/Kg		83	74 - 142
Dibromomethane	50.0	40.6		ug/Kg		81	73 - 135
Chlorobromomethane	50.0	42.2		ug/Kg		84	74 - 135
Chloroethane	50.0	43.3		ug/Kg		87	51 - 145
Vinyl chloride	50.0	41.7		ug/Kg		83	43 - 145
Methylene Chloride	50.0	43.0		ug/Kg		86	76 - 136
Carbon disulfide	50.0	42.9		ug/Kg		86	45 - 150
Bromoform	50.0	49.9		ug/Kg		100	77 - 135
Dichlorobromomethane	50.0	43.4		ug/Kg		87	73 - 135

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

Lab Sample ID: LCS 280-651690/2-A
Matrix: Solid
Analysis Batch: 652565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 651690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	50.0	42.1		ug/Kg		84	70 - 135
1,1-Dichloroethene	50.0	43.4		ug/Kg		87	79 - 135
Trichlorofluoromethane	50.0	44.2		ug/Kg		88	48 - 150
Dichlorodifluoromethane	50.0	36.6		ug/Kg		73	32 - 152
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	43.1		ug/Kg		86	50 - 150
1,2-Dichloropropane	50.0	42.6		ug/Kg		85	72 - 121
2-Butanone (MEK)	200	149		ug/Kg		75	45 - 177
1,1,2-Trichloroethane	50.0	42.1		ug/Kg		84	78 - 135
Trichloroethene	50.0	48.8		ug/Kg		98	77 - 135
Methyl acetate	100	75.5		ug/Kg		75	50 - 150
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/Kg		100	65 - 135
1,2,3-Trichlorobenzene	50.0	52.4		ug/Kg		105	62 - 135
Hexachlorobutadiene	50.0	52.8		ug/Kg		106	52 - 151
Naphthalene	50.0	48.8		ug/Kg		98	65 - 135
o-Xylene	50.0	49.1		ug/Kg		98	75 - 135
2-Chlorotoluene	50.0	51.7		ug/Kg		103	67 - 135
1,2-Dichlorobenzene	50.0	48.7		ug/Kg		97	73 - 135
1,2,4-Trimethylbenzene	50.0	51.7		ug/Kg		103	67 - 135
1,2-Dibromo-3-Chloropropane	50.0	47.2		ug/Kg		94	66 - 150
1,2,3-Trichloropropane	50.0	49.5		ug/Kg		99	65 - 135
Ethyl methacrylate	50.0	50.6		ug/Kg		101	50 - 150
tert-Butylbenzene	50.0	52.0		ug/Kg		104	66 - 135
Isopropylbenzene	50.0	53.6		ug/Kg		107	74 - 137
4-Isopropyltoluene	50.0	52.1		ug/Kg		104	66 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*58 - 140*
Dibromofluoromethane (Surr)	*91*		*75 - 121*
Toluene-d8 (Surr)	*105*		*80 - 126*
4-Bromofluorobenzene (Surr)	*106*		*76 - 127*

Lab Sample ID: LCSD 280-651690/3-A
Matrix: Solid
Analysis Batch: 652565

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 651690

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	50.0	51.2		ug/Kg		102	73 - 125	4	20
Styrene	50.0	52.5		ug/Kg		105	76 - 135	4	20
cis-1,3-Dichloropropene	50.0	51.8		ug/Kg		104	71 - 135	4	20
trans-1,3-Dichloropropene	50.0	47.3		ug/Kg		95	71 - 135	8	20
N-Propylbenzene	50.0	54.6		ug/Kg		109	67 - 135	2	22
n-Butylbenzene	50.0	53.0		ug/Kg		106	68 - 135	1	21
4-Chlorotoluene	50.0	52.2		ug/Kg		104	68 - 135	2	20
1,4-Dichlorobenzene	50.0	50.2		ug/Kg		100	73 - 135	2	22
Ethylene Dibromide	50.0	51.6		ug/Kg		103	76 - 135	7	20
3-Chloro-1-propene	50.0	41.8		ug/Kg		84	50 - 150	3	30
1,2-Dichloroethane	50.0	43.0		ug/Kg		86	69 - 135	7	20
Vinyl acetate	100	87.6		ug/Kg		88	54 - 165	5	27

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

Lab Sample ID: LCSD 280-651690/3-A
Matrix: Solid
Analysis Batch: 652565

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 651690

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	200	177		ug/Kg		89	69 - 150	7	25
1,3,5-Trimethylbenzene	50.0	53.9		ug/Kg		108	65 - 135	3	21
Bromobenzene	50.0	52.5		ug/Kg		105	72 - 135	2	22
Methylcyclohexane	50.0	45.7		ug/Kg		91	50 - 150	5	30
Toluene	50.0	43.9		ug/Kg		88	77 - 122	7	20
Chlorobenzene	50.0	49.9		ug/Kg		100	78 - 135	5	20
Tetrahydrofuran	100	83.1		ug/Kg		83	50 - 150	8	30
Hexane	50.0	46.8		ug/Kg		94	50 - 150	4	35
Cyclohexane	50.0	45.6		ug/Kg		91	50 - 150	4	30
1,2,4-Trichlorobenzene	50.0	49.9		ug/Kg		100	65 - 135	3	26
Chlorodibromomethane	50.0	53.0		ug/Kg		106	77 - 135	4	20
Tetrachloroethene	50.0	49.5		ug/Kg		99	76 - 135	4	20
sec-Butylbenzene	50.0	52.7		ug/Kg		105	69 - 135	2	22
1,3-Dichloropropane	50.0	50.5		ug/Kg		101	74 - 135	5	20
cis-1,2-Dichloroethene	50.0	43.8		ug/Kg		88	76 - 135	5	20
trans-1,2-Dichloroethene	50.0	43.0		ug/Kg		86	77 - 135	2	20
Methyl tert-butyl ether	50.0	43.8		ug/Kg		88	71 - 141	3	20
m-Xylene & p-Xylene	50.0	50.8		ug/Kg		102	77 - 135	3	20
1,3-Dichlorobenzene	50.0	51.8		ug/Kg		104	69 - 135	1	20
Carbon tetrachloride	50.0	47.2		ug/Kg		94	69 - 138	4	20
1,1-Dichloropropene	50.0	45.2		ug/Kg		90	72 - 135	6	20
2-Hexanone	200	201		ug/Kg		100	67 - 150	7	29
2,2-Dichloropropane	50.0	47.3		ug/Kg		95	69 - 135	1	20
Ethyl ether	50.0	43.9		ug/Kg		88	50 - 150	7	20
1,1,1,2-Tetrachloroethane	50.0	51.2		ug/Kg		102	76 - 135	1	20
Acetone	200	172		ug/Kg		86	65 - 150	6	28
Chloroform	50.0	44.2		ug/Kg		88	73 - 123	6	20
Benzene	50.0	44.2		ug/Kg		88	75 - 135	6	20
1,1,1-Trichloroethane	50.0	46.1		ug/Kg		92	70 - 135	3	20
Bromomethane	50.0	40.0		ug/Kg		80	52 - 135	1	22
Chloromethane	50.0	40.1		ug/Kg		80	41 - 138	2	25
Iodomethane	50.0	42.0		ug/Kg		84	74 - 142	2	25
Dibromomethane	50.0	43.5		ug/Kg		87	73 - 135	7	20
Chlorobromomethane	50.0	44.2		ug/Kg		88	74 - 135	5	21
Chloroethane	50.0	42.9		ug/Kg		86	51 - 145	1	22
Vinyl chloride	50.0	42.4		ug/Kg		85	43 - 145	2	24
Methylene Chloride	50.0	44.6		ug/Kg		89	76 - 136	4	21
Carbon disulfide	50.0	43.2		ug/Kg		86	45 - 150	1	24
Bromoform	50.0	50.8		ug/Kg		102	77 - 135	2	20
Dichlorobromomethane	50.0	45.8		ug/Kg		92	73 - 135	5	20
1,1-Dichloroethane	50.0	44.1		ug/Kg		88	70 - 135	5	20
1,1-Dichloroethene	50.0	43.6		ug/Kg		87	79 - 135	0	20
Trichlorofluoromethane	50.0	44.5		ug/Kg		89	48 - 150	1	33
Dichlorodifluoromethane	50.0	36.5		ug/Kg		73	32 - 152	0	28
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.3		ug/Kg		87	50 - 150	0	20
1,2-Dichloropropane	50.0	45.1		ug/Kg		90	72 - 121	6	20
2-Butanone (MEK)	200	165		ug/Kg		82	45 - 177	10	32
1,1,2-Trichloroethane	50.0	44.6		ug/Kg		89	78 - 135	6	20

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

Lab Sample ID: LCSD 280-651690/3-A
Matrix: Solid
Analysis Batch: 652565

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 651690

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene	50.0	51.2		ug/Kg		102	77 - 135	5	20
Methyl acetate	100	83.6		ug/Kg		84	50 - 150	10	30
1,1,2,2-Tetrachloroethane	50.0	51.5		ug/Kg		103	65 - 135	3	21
1,2,3-Trichlorobenzene	50.0	52.0		ug/Kg		104	62 - 135	1	31
Hexachlorobutadiene	50.0	51.6		ug/Kg		103	52 - 151	2	25
Naphthalene	50.0	48.8		ug/Kg		98	65 - 135	0	38
o-Xylene	50.0	50.7		ug/Kg		101	75 - 135	3	20
2-Chlorotoluene	50.0	52.9		ug/Kg		106	67 - 135	2	22
1,2-Dichlorobenzene	50.0	49.5		ug/Kg		99	73 - 135	2	20
1,2,4-Trimethylbenzene	50.0	52.5		ug/Kg		105	67 - 135	2	20
1,2-Dibromo-3-Chloropropane	50.0	47.6		ug/Kg		95	66 - 150	1	28
1,2,3-Trichloropropane	50.0	51.3		ug/Kg		103	65 - 135	4	21
Ethyl methacrylate	50.0	53.5		ug/Kg		107	50 - 150	6	30
tert-Butylbenzene	50.0	53.1		ug/Kg		106	66 - 135	2	22
Isopropylbenzene	50.0	55.7		ug/Kg		111	74 - 137	4	20
4-Isopropyltoluene	50.0	53.2		ug/Kg		106	66 - 135	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		***58 - 140***
Dibromofluoromethane (Surr)	*94*		*75 - 121*
Toluene-d8 (Surr)	*104*		*80 - 126*
4-Bromofluorobenzene (Surr)	*107*		*76 - 127*

Method: Moisture - Percent Moisture

Lab Sample ID: 280-190830-6 DU
Matrix: Solid
Analysis Batch: 652499

Client Sample ID: Post-SO-Shallow SVE-6-04302024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	12.9		13.3		%		3	20
Percent Solids	87.1		86.7		%		0.4	20

QC Association Summary

Client: EA Engineering, Science, and Technology
Job ID: 280-190830-1
Project/Site: ABC Cleaners, NC

GC/MS VOA

Prep Batch: 651690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190830-1	Post-SO-Shallow SVE-1-04302024	Total/NA	Solid	5035	
280-190830-2	Post-SO-Shallow SVE-2-04302024	Total/NA	Solid	5035	
280-190830-3	Post-SO-Shallow SVE-3-04302024	Total/NA	Solid	5035	
280-190830-4	Post-SO-Shallow SVE-4-04302024	Total/NA	Solid	5035	
280-190830-5	Post-SO-Shallow SVE-5-04302024	Total/NA	Solid	5035	
280-190830-6	Post-SO-Shallow SVE-6-04302024	Total/NA	Solid	5035	
MB 280-651690/1-A	Method Blank	Total/NA	Solid	5035	
LCS 280-651690/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-651690/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 652565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190830-1	Post-SO-Shallow SVE-1-04302024	Total/NA	Solid	8260D	651690
280-190830-2	Post-SO-Shallow SVE-2-04302024	Total/NA	Solid	8260D	651690
280-190830-3	Post-SO-Shallow SVE-3-04302024	Total/NA	Solid	8260D	651690
280-190830-4	Post-SO-Shallow SVE-4-04302024	Total/NA	Solid	8260D	651690
280-190830-5	Post-SO-Shallow SVE-5-04302024	Total/NA	Solid	8260D	651690
280-190830-6	Post-SO-Shallow SVE-6-04302024	Total/NA	Solid	8260D	651690
MB 280-651690/1-A	Method Blank	Total/NA	Solid	8260D	651690
LCS 280-651690/2-A	Lab Control Sample	Total/NA	Solid	8260D	651690
LCSD 280-651690/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	651690

General Chemistry

Analysis Batch: 652088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190830-1	Post-SO-Shallow SVE-1-04302024	Total/NA	Solid	Moisture	
280-190830-2	Post-SO-Shallow SVE-2-04302024	Total/NA	Solid	Moisture	
280-190830-3	Post-SO-Shallow SVE-3-04302024	Total/NA	Solid	Moisture	

Analysis Batch: 652499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190830-4	Post-SO-Shallow SVE-4-04302024	Total/NA	Solid	Moisture	
280-190830-5	Post-SO-Shallow SVE-5-04302024	Total/NA	Solid	Moisture	
280-190830-6	Post-SO-Shallow SVE-6-04302024	Total/NA	Solid	Moisture	
280-190830-6 DU	Post-SO-Shallow SVE-6-04302024	Total/NA	Solid	Moisture	

Client Sample ID: Post-SO-Shallow SVE-1-04302024
Lab Sample ID: 280-190830-1
Date Collected: 04/30/24 11:30
Matrix: Solid
Date Received: 05/01/24 08:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			652088	05/03/24 16:08	EJS	EET DEN

Client Sample ID: Post-SO-Shallow SVE-1-04302024
Lab Sample ID: 280-190830-1
Date Collected: 04/30/24 11:30
Matrix: Solid
Date Received: 05/01/24 08:10
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.365 g	5 mL	651690	05/01/24 11:44	KJG	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	652565	05/08/24 15:28	JLS	EET DEN

Client Sample ID: Post-SO-Shallow SVE-2-04302024
Lab Sample ID: 280-190830-2
Date Collected: 04/30/24 11:45
Matrix: Solid
Date Received: 05/01/24 08:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			652088	05/03/24 16:08	EJS	EET DEN

Client Sample ID: Post-SO-Shallow SVE-2-04302024
Lab Sample ID: 280-190830-2
Date Collected: 04/30/24 11:45
Matrix: Solid
Date Received: 05/01/24 08:10
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.001 g	5 mL	651690	05/01/24 11:44	KJG	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	652565	05/08/24 15:48	JLS	EET DEN

Client Sample ID: Post-SO-Shallow SVE-3-04302024
Lab Sample ID: 280-190830-3
Date Collected: 04/30/24 12:00
Matrix: Solid
Date Received: 05/01/24 08:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			652088	05/03/24 16:08	EJS	EET DEN

Client Sample ID: Post-SO-Shallow SVE-3-04302024
Lab Sample ID: 280-190830-3
Date Collected: 04/30/24 12:00
Matrix: Solid
Date Received: 05/01/24 08:10
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.379 g	5 mL	651690	05/01/24 11:44	KJG	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	652565	05/08/24 16:08	JLS	EET DEN

Client Sample ID: Post-SO-Shallow SVE-4-04302024
Lab Sample ID: 280-190830-4
Date Collected: 04/30/24 12:15
Matrix: Solid
Date Received: 05/01/24 08:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			652499	05/07/24 21:50	LL	EET DEN

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190830-1

Client Sample ID: Post-SO-Shallow SVE-4-04302024

Lab Sample ID: 280-190830-4

Date Collected: 04/30/24 12:15
Matrix: Solid
Date Received: 05/01/24 08:10
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.521 g	5 mL	651690	05/01/24 11:44	KJG	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	652565	05/08/24 16:27	JLS	EET DEN

Client Sample ID: Post-SO-Shallow SVE-5-04302024

Lab Sample ID: 280-190830-5

Date Collected: 04/30/24 12:30
Matrix: Solid
Date Received: 05/01/24 08:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			652499	05/07/24 21:50	LL	EET DEN

Client Sample ID: Post-SO-Shallow SVE-5-04302024

Lab Sample ID: 280-190830-5

Date Collected: 04/30/24 12:30
Matrix: Solid
Date Received: 05/01/24 08:10
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.029 g	5 mL	651690	05/01/24 11:44	KJG	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	652565	05/08/24 16:47	JLS	EET DEN

Client Sample ID: Post-SO-Shallow SVE-6-04302024

Lab Sample ID: 280-190830-6

Date Collected: 04/30/24 12:45
Matrix: Solid
Date Received: 05/01/24 08:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			652499	05/07/24 21:50	LL	EET DEN

Client Sample ID: Post-SO-Shallow SVE-6-04302024

Lab Sample ID: 280-190830-6

Date Collected: 04/30/24 12:45
Matrix: Solid
Date Received: 05/01/24 08:10
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.415 g	5 mL	651690	05/01/24 11:44	KJG	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	652565	05/08/24 17:06	JLS	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Job ID: 280-190830-1
Project/Site: ABC Cleaners, NC

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-24 *
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24 *
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	05-12-24
Nevada	State	CO000262024-07	07-31-24
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

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Client Information	Sampler: See Van Identity	Lab PM: McElheny, Megan E	Carrier Tracking No(s):	COC No: 280-139969-38435.1
Client Contact: Sanita Corum	Phone: 515 382-9534	E-Mail: Megan.Mcelheny@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: EA Engineering, Science, and Technology	PWSID:	Analysis Requested		Job #:
Address: 225 Schilling Circle Suite 400	Due Date Requested: 30 April 2024			Preservation Codes: N - None
City: Hunt Valley	TAT Requested (days): 5 - Day			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-771-4950(Tel)	PO #: 24987			
Email: scorum@eaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024283			Other:
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Moisture - Local Method	8260D - EnCore - Standard Target Compound List	Total Number of containers	Special Instructions/Note:
						N	N			
Post-SG-Shallow SVE-1-043020240	4/30/24	1130	G	Solid			X	X		
Post-SG shallow SVE-2-043020240	4/30/24	1145	G	Solid			X	X		
Post-SG shallow SVE-3 043020240	4/30/24	1200	G	Solid			X	X		
Post-SG shallow SVE-4-043020240	4/30/24	1215	G	Solid			X	X		
Post-SG shallow SVE-5 043020240	4/30/24	1230	G	Solid			X	X		
Post-SG shallow SVE-6 043020240	4/30/24	1245	G	Solid			X	X		
				Solid						
				Solid						
				Solid						
				Solid						

280-190830 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/30/24 1530	EA		5/1/24 0810	ESTL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.6 Wasp CF0.2

Ver: 06/08/2021

5/16/2024 (Rev. 1)

FedEx Express Package US Airbill

FedEx Tracking Number 8172 9130 5111

0200

1 From
Date 4-30-24
Sender's Name Vinny Barbee Phone 717 801-2317
Company 225 Schilling Cir.
Address [redacted]
Dept/Floor/Suite/Room
City Hunt Valley State MD ZIP 21031

2 Your Internal Billing Reference

3 To
Recipient's Name Eurofins Denver Phone 303 736-0100
Company Eurofins Denver
Address 4955 Yarrow St
We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept/Floor/Suite/Room
Address
Use this line for the HOLD location address or for continuation of your shipping address.
City Arvada State CO ZIP 80002

Hold Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.
Hold Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4 Express Package Service
Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day
- [x] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2nd Business Day
- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.
- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [ ] Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.
- [ ] Saturday Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [x] Direct Signature — Someone at recipient's address may sign for delivery.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?
One box must be checked.
- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide.
- [ ] Cargo Aircraft Only

7 Payment Bill to:
Enter FedEx Acct. No. below.
- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Obtain recip FedEx Acct. no.

Total Packages [redacted] Total Weight ____ lbs.

644

*Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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1 800 463.3339 fedex.com 1800.GoFedEx 1800 463.3339

FedEx
TRK# 0200 8172 9130 5111
WED - 01 MAY 8:30A
FIRST OVERNIGHT
DSR
X1 LAAA
80002
CO-US
DEN

4.6.101

5395037 [redacted]

280-190830 Waybill

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 280-190830-1

Login Number: 190830
List Number: 1
Creator: Naylis, Patrick J

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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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ANALYTICAL REPORT

PREPARED FOR

Attn: Sanita Corum
EA Engineering, Science, and Technology
225 Schilling Circle
Suite 400
Hunt Valley, Maryland 21031

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JOB DESCRIPTION

ABC Cleaners, NC

JOB NUMBER

280-193948-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

myEOL

Eurofins Denver

Job Notes

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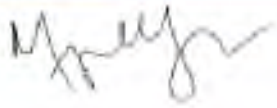
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed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

Authorization



Generated
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Authorized for release by
Megan McElheny, Project Manager I
Megan.Mcelheny@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Job ID: 280-193948-1
Project/Site: ABC Cleaners, NC

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
280-193948-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 7/11/2024 8:00 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 14.4°C.

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: Post Stained Soil-07102024 Aliquot 1 (280-193948-1), Post Stained Soil-07102024 Aliquot 2 (280-193948-2), Post Stained Soil-07102024 Aliquot 3 (280-193948-3), Post Stained Soil-07102024 Aliquot 4 (280-193948-4), Post Stained Soil-07102024 Aliquot 5 (280-193948-5) and Post Stained Soil-07102024 Composite (280-193948-6). This does not meet regulatory requirements.

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): Post Stained Soil-07102024 Aliquot 1 (280-193948-1), Post Stained Soil-07102024 Aliquot 2 (280-193948-2), Post Stained Soil-07102024 Aliquot 3 (280-193948-3), Post Stained Soil-07102024 Aliquot 4 (280-193948-4), Post Stained Soil-07102024 Aliquot 5 (280-193948-5) and Post Stained Soil-07102024 Composite (280-193948-6). The collection times on the containers do not match the COC. The times for the aliquot 5 was logged per the client label.

No moisture container was provided with this set of samples. Post Stained Soil-07102024 Aliquot 1 (280-193948-1), Post Stained Soil-07102024 Aliquot 2 (280-193948-2), Post Stained Soil-07102024 Aliquot 3 (280-193948-3), Post Stained Soil-07102024 Aliquot 4 (280-193948-4) and Post Stained Soil-07102024 Aliquot 5 (280-193948-5).

Per client communication on 7/12/24, we recevied 5 samples and the client requested that the lab composite. The lab does not composite EnCore samples. The client instructed the lab to run one sample for VOC analysis. Post Stained Soil-07102024 Aliquot 1 (280-193948-1), Post Stained Soil-07102024 Aliquot 2 (280-193948-2), Post Stained Soil-07102024 Aliquot 3 (280-193948-3), Post Stained Soil-07102024 Aliquot 4 (280-193948-4) and Post Stained Soil-07102024 Aliquot 5 (280-193948-5).

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): Post Stained Soil-07102024 Aliquot 1 (280-193948-1), Post Stained Soil-07102024 Aliquot 2 (280-193948-2), Post Stained Soil-07102024 Aliquot 3 (280-193948-3), Post Stained Soil-07102024 Aliquot 4 (280-193948-4) and Post Stained Soil-07102024 Aliquot 5 (280-193948-5). There are no sample ID's on the client labels.

GC/MS VOA
Method 8260D: The following sample was received out of holding time. As such, the laboratory had insufficient time remaining to perform the prep analysis within holding time: Post Stained Soil-07102024 Aliquot 5 (280-193948-5).

Method 8260D: The following sample was prepped as a single sample. It was logged as a composite, however three of the five core n ones were empty and did not contain any sample. The lab only had two sample volumes to prep. Post Stained Soil-07102024 Aliquot 5 (280-193948-5).

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-660290 and analytical batch 280-660767.

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

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-193948-1

Client Sample ID: Post Stained Soil-07102024 Aliquot 5

Lab Sample ID: 280-193948-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	14	H	3.9		ug/Kg	1		8260D	Total/NA
Methylcyclohexane	5.5	H	3.9		ug/Kg	1		8260D	Total/NA
Tetrachloroethene	16	H	3.9		ug/Kg	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.9	H	1.9		ug/Kg	1		8260D	Total/NA
m-Xylene & p-Xylene	6.5	H	1.9		ug/Kg	1		8260D	Total/NA
Acetone	220	H	62		ug/Kg	1		8260D	Total/NA
2-Butanone (MEK)	42	H	16		ug/Kg	1		8260D	Total/NA
Trichloroethene	5.8	H	3.9		ug/Kg	1		8260D	Total/NA
Naphthalene	31	H	5.1		ug/Kg	1		8260D	Total/NA
o-Xylene	3.6	H	1.9		ug/Kg	1		8260D	Total/NA
1,2,4-Trimethylbenzene	46	H	3.9		ug/Kg	1		8260D	Total/NA
4-Isopropyltoluene	11	H	3.9		ug/Kg	1		8260D	Total/NA
Xylenes, Total	10	H	3.9		ug/Kg	1		8260D	Total/NA
Total BTEX	10	H	3.9		ug/Kg	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-193948-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
5035	Closed System Purge and Trap	SW846	EET DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-193948-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-193948-5	Post Stained Soil-07102024 Aliquot 5	Solid	07/10/24 11:08	07/11/24 08:00

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

Client Sample ID: Post Stained Soil-07102024 Aliquot 5
Date Collected: 07/10/24 11:08
Date Received: 07/11/24 08:00
Lab Sample ID: 280-193948-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Styrene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
cis-1,3-Dichloropropene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
trans-1,3-Dichloropropene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
N-Propylbenzene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
n-Butylbenzene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
4-Chlorotoluene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,4-Dichlorobenzene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Ethylene Dibromide	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
3-Chloro-1-propene	7.8	U H	7.8		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,2-Dichloroethane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Vinyl acetate	7.8	U H	7.8		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
4-Methyl-2-pentanone (MIBK)	16	U H	16		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,3,5-Trimethylbenzene	**14**	**H**	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Bromobenzene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Methylcyclohexane	**5.5**	**H**	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Toluene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Chlorobenzene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Tetrahydrofuran	16	U H	16		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Hexane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Cyclohexane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,2,4-Trichlorobenzene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Chlorodibromomethane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Tetrachloroethene	**16**	**H**	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
sec-Butylbenzene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,3-Dichloropropane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
cis-1,2-Dichloroethene	**2.9**	**H**	1.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
trans-1,2-Dichloroethene	1.9	U H	1.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Methyl tert-butyl ether	16	U H	16		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
m-Xylene & p-Xylene	**6.5**	**H**	1.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,3-Dichlorobenzene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Carbon tetrachloride	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,1-Dichloropropene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
2-Hexanone	16	U H	16		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
2,2-Dichloropropane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Ethyl ether	7.8	U H	7.8		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,1,1,2-Tetrachloroethane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Acetone	**220**	**H**	62		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Chloroform	7.8	U H	7.8		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Benzene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,1,1-Trichloroethane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Bromomethane	7.8	U H	7.8		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Chloromethane	7.8	U H	7.8		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Iodomethane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Dibromomethane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Chlorobromomethane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Chloroethane	7.8	U H	7.8		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Vinyl chloride	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Methylene Chloride	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1

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

Client Sample ID: Post Stained Soil-07102024 Aliquot 5
Date Collected: 07/10/24 11:08
Date Received: 07/11/24 08:00
Lab Sample ID: 280-193948-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Bromoform	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Dichlorobromomethane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,1-Dichloroethane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,1-Dichloroethene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Trichlorofluoromethane	7.8	U H	7.8		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Dichlorodifluoromethane	7.8	U H	7.8		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	16	U H	16		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,2-Dichloropropane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
2-Butanone (MEK)	**42**	**H**	16		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,1,2-Trichloroethane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Trichloroethene	**5.8**	**H**	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Methyl acetate	7.8	U H	7.8		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,1,2,2-Tetrachloroethane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,2,3-Trichlorobenzene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Hexachlorobutadiene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Naphthalene	**31**	**H**	5.1		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
o-Xylene	**3.6**	**H**	1.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
2-Chlorotoluene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,2-Dichlorobenzene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,2,4-Trimethylbenzene	**46**	**H**	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,2-Dibromo-3-Chloropropane	7.8	U H	7.8		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,2,3-Trichloropropane	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Ethyl methacrylate	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
tert-Butylbenzene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Isopropylbenzene	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
4-Isopropyltoluene	**11**	**H**	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Xylenes, Total	**10**	**H**	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,2-Dichloroethene, Total	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
1,3-Dichloropropene, Total	3.9	U H	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Trihalomethanes, Total	7.8	U H	7.8		ug/Kg		07/12/24 15:06	07/16/24 17:55	1
Total BTEX	**10**	**H**	3.9		ug/Kg		07/12/24 15:06	07/16/24 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*58 - 140*	*07/12/24 15:06*	*07/16/24 17:55*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 121*	*07/12/24 15:06*	*07/16/24 17:55*	*1*
Toluene-d8 (Surr)	*110*		*80 - 126*	*07/12/24 15:06*	*07/16/24 17:55*	*1*
4-Bromofluorobenzene (Surr)	*125*		*76 - 127*	*07/12/24 15:06*	*07/16/24 17:55*	*1*

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-193948-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	**Client Sample ID**	**(58-140)**	**(75-121)**	**(80-126)**	**(76-127)**
280-193948-5	Post Stained Soil-07102024 Aliq	113	104	110	125
LCS 280-660290/2-A	Lab Control Sample	107	99	101	103
LCSD 280-660290/8-A	Lab Control Sample Dup	111	102	104	105
MB 280-660290/1-A	Method Blank	103	97	102	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-660290/1-A
Matrix: Solid
Analysis Batch: 660767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Styrene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
N-Propylbenzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
n-Butylbenzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
4-Chlorotoluene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Ethylene Dibromide	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
3-Chloro-1-propene	10	U	10		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Vinyl acetate	10	U	10		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,3,5-Trimethylbenzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Bromobenzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Methylcyclohexane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Toluene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Chlorobenzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Tetrahydrofuran	20	U	20		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Hexane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Cyclohexane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Chlorodibromomethane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Tetrachloroethene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
sec-Butylbenzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,3-Dichloropropane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
cis-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
trans-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Methyl tert-butyl ether	20	U	20		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
m-Xylene & p-Xylene	2.5	U	2.5		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Carbon tetrachloride	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,1-Dichloropropene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
2-Hexanone	20	U	20		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
2,2-Dichloropropane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Ethyl ether	10	U	10		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,1,1,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Acetone	80	U	80		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Chloroform	10	U	10		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Benzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Bromomethane	10	U	10		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Chloromethane	10	U	10		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Iodomethane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Dibromomethane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Chlorobromomethane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Chloroethane	10	U	10		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Vinyl chloride	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1

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

Lab Sample ID: MB 280-660290/1-A
Matrix: Solid
Analysis Batch: 660767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Carbon disulfide	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Bromoform	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Dichlorobromomethane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,1-Dichloroethane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Trichlorofluoromethane	10	U	10		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Dichlorodifluoromethane	10	U	10		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
2-Butanone (MEK)	20	U	20		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Trichloroethene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Methyl acetate	10	U	10		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,2,3-Trichlorobenzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Hexachlorobutadiene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Naphthalene	6.6	U	6.6		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
o-Xylene	2.5	U	2.5		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
2-Chlorotoluene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,2,4-Trimethylbenzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,2,3-Trichloropropane	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Ethyl methacrylate	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
tert-Butylbenzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Isopropylbenzene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
4-Isopropyltoluene	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Xylenes, Total	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,2-Dichloroethene, Total	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
1,3-Dichloropropene, Total	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Trihalomethanes, Total	10	U	10		ug/Kg		07/12/24 15:06	07/16/24 12:22	1
Total BTEX	5.0	U	5.0		ug/Kg		07/12/24 15:06	07/16/24 12:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*58 - 140*	*07/12/24 15:06*	*07/16/24 12:22*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*07/12/24 15:06*	*07/16/24 12:22*	*1*
Toluene-d8 (Surr)	*102*		*80 - 126*	*07/12/24 15:06*	*07/16/24 12:22*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 127*	*07/12/24 15:06*	*07/16/24 12:22*	*1*

Lab Sample ID: LCS 280-660290/2-A
Matrix: Solid
Analysis Batch: 660767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	44.6		ug/Kg		89	73 - 125
Styrene	50.0	45.1		ug/Kg		90	76 - 135
cis-1,3-Dichloropropene	50.0	45.9		ug/Kg		92	71 - 135

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

Lab Sample ID: LCS 280-660290/2-A
Matrix: Solid
Analysis Batch: 660767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	50.0	45.0		ug/Kg		90	71 - 135
N-Propylbenzene	50.0	44.9		ug/Kg		90	67 - 135
n-Butylbenzene	50.0	46.8		ug/Kg		94	68 - 135
4-Chlorotoluene	50.0	44.2		ug/Kg		88	68 - 135
1,4-Dichlorobenzene	50.0	47.6		ug/Kg		95	73 - 135
Ethylene Dibromide	50.0	44.3		ug/Kg		89	76 - 135
3-Chloro-1-propene	50.0	43.0		ug/Kg		86	50 - 150
1,2-Dichloroethane	50.0	44.1		ug/Kg		88	69 - 135
Vinyl acetate	100	99.4		ug/Kg		99	54 - 165
4-Methyl-2-pentanone (MIBK)	200	192		ug/Kg		96	69 - 150
1,3,5-Trimethylbenzene	50.0	45.1		ug/Kg		90	65 - 135
Bromobenzene	50.0	44.0		ug/Kg		88	72 - 135
Methylcyclohexane	50.0	44.8		ug/Kg		90	50 - 150
Toluene	50.0	43.0		ug/Kg		86	77 - 122
Chlorobenzene	50.0	43.9		ug/Kg		88	78 - 135
Tetrahydrofuran	100	102		ug/Kg		102	50 - 150
Hexane	50.0	40.4		ug/Kg		81	50 - 150
Cyclohexane	50.0	44.2		ug/Kg		88	50 - 150
1,2,4-Trichlorobenzene	50.0	52.9		ug/Kg		106	65 - 135
Chlorodibromomethane	50.0	43.6		ug/Kg		87	77 - 135
Tetrachloroethene	50.0	42.2		ug/Kg		84	76 - 135
sec-Butylbenzene	50.0	44.9		ug/Kg		90	69 - 135
1,3-Dichloropropane	50.0	47.3		ug/Kg		95	74 - 135
cis-1,2-Dichloroethene	50.0	43.2		ug/Kg		86	76 - 135
trans-1,2-Dichloroethene	50.0	42.5		ug/Kg		85	77 - 135
Methyl tert-butyl ether	50.0	44.9		ug/Kg		90	71 - 141
m-Xylene & p-Xylene	50.0	44.6		ug/Kg		89	77 - 135
1,3-Dichlorobenzene	50.0	44.0		ug/Kg		88	69 - 135
Carbon tetrachloride	50.0	42.1		ug/Kg		84	69 - 138
1,1-Dichloropropene	50.0	45.1		ug/Kg		90	72 - 135
2-Hexanone	200	189		ug/Kg		94	67 - 150
2,2-Dichloropropane	50.0	45.0		ug/Kg		90	69 - 135
Ethyl ether	50.0	46.7		ug/Kg		93	50 - 150
1,1,1,2-Tetrachloroethane	50.0	43.5		ug/Kg		87	76 - 135
Acetone	200	202		ug/Kg		101	65 - 150
Chloroform	50.0	44.1		ug/Kg		88	73 - 123
Benzene	50.0	44.2		ug/Kg		88	75 - 135
1,1,1-Trichloroethane	50.0	43.7		ug/Kg		87	70 - 135
Bromomethane	50.0	45.5		ug/Kg		91	52 - 135
Chloromethane	50.0	46.8		ug/Kg		94	41 - 138
Iodomethane	50.0	40.1		ug/Kg		80	74 - 142
Dibromomethane	50.0	44.6		ug/Kg		89	73 - 135
Chlorobromomethane	50.0	42.1		ug/Kg		84	74 - 135
Chloroethane	50.0	52.1		ug/Kg		104	51 - 145
Vinyl chloride	50.0	49.8		ug/Kg		100	43 - 145
Methylene Chloride	50.0	44.5		ug/Kg		89	76 - 136
Carbon disulfide	50.0	40.3		ug/Kg		81	45 - 150
Bromoform	50.0	42.0		ug/Kg		84	77 - 135
Dichlorobromomethane	50.0	44.8		ug/Kg		90	73 - 135

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

Lab Sample ID: LCS 280-660290/2-A
Matrix: Solid
Analysis Batch: 660767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	50.0	45.8		ug/Kg		92	70 - 135
1,1-Dichloroethene	50.0	42.0		ug/Kg		84	79 - 135
Trichlorofluoromethane	50.0	50.8		ug/Kg		102	48 - 150
Dichlorodifluoromethane	50.0	31.2		ug/Kg		62	32 - 152
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	39.2		ug/Kg		78	50 - 150
1,2-Dichloropropane	50.0	46.8		ug/Kg		94	72 - 121
2-Butanone (MEK)	200	198		ug/Kg		99	45 - 177
1,1,2-Trichloroethane	50.0	44.8		ug/Kg		90	78 - 135
Trichloroethene	50.0	43.2		ug/Kg		86	77 - 135
Methyl acetate	100	88.0		ug/Kg		88	50 - 150
1,1,2,2-Tetrachloroethane	50.0	47.7		ug/Kg		95	65 - 135
1,2,3-Trichlorobenzene	50.0	51.7		ug/Kg		103	62 - 135
Hexachlorobutadiene	50.0	55.7		ug/Kg		111	52 - 151
Naphthalene	50.0	50.2		ug/Kg		100	65 - 135
o-Xylene	50.0	44.3		ug/Kg		89	75 - 135
2-Chlorotoluene	50.0	45.7		ug/Kg		91	67 - 135
1,2-Dichlorobenzene	50.0	48.0		ug/Kg		96	73 - 135
1,2,4-Trimethylbenzene	50.0	45.6		ug/Kg		91	67 - 135
1,2-Dibromo-3-Chloropropane	50.0	45.0		ug/Kg		90	66 - 150
1,2,3-Trichloropropane	50.0	45.6		ug/Kg		91	65 - 135
Ethyl methacrylate	50.0	46.3		ug/Kg		93	50 - 150
tert-Butylbenzene	50.0	45.9		ug/Kg		92	66 - 135
Isopropylbenzene	50.0	46.1		ug/Kg		92	74 - 137
4-Isopropyltoluene	50.0	45.5		ug/Kg		91	66 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*58 - 140*
Dibromofluoromethane (Surr)	*99*		*75 - 121*
Toluene-d8 (Surr)	*101*		*80 - 126*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*

Lab Sample ID: LCSD 280-660290/8-A
Matrix: Solid
Analysis Batch: 660767

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660290

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	50.0	44.2		ug/Kg		88	73 - 125	1	20
Styrene	50.0	43.2		ug/Kg		86	76 - 135	4	20
cis-1,3-Dichloropropene	50.0	45.7		ug/Kg		91	71 - 135	0	20
trans-1,3-Dichloropropene	50.0	43.3		ug/Kg		87	71 - 135	4	20
N-Propylbenzene	50.0	44.8		ug/Kg		90	67 - 135	0	22
n-Butylbenzene	50.0	45.1		ug/Kg		90	68 - 135	4	21
4-Chlorotoluene	50.0	42.8		ug/Kg		86	68 - 135	3	20
1,4-Dichlorobenzene	50.0	46.3		ug/Kg		93	73 - 135	3	22
Ethylene Dibromide	50.0	42.7		ug/Kg		85	76 - 135	4	20
3-Chloro-1-propene	50.0	50.2		ug/Kg		100	50 - 150	15	30
1,2-Dichloroethane	50.0	45.3		ug/Kg		91	69 - 135	3	20
Vinyl acetate	100	93.2		ug/Kg		93	54 - 165	6	27

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

Lab Sample ID: LCSD 280-660290/8-A
Matrix: Solid
Analysis Batch: 660767

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660290

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	200	186		ug/Kg		93	69 - 150	3	25
1,3,5-Trimethylbenzene	50.0	45.2		ug/Kg		90	65 - 135	0	21
Bromobenzene	50.0	42.4		ug/Kg		85	72 - 135	4	22
Methylcyclohexane	50.0	46.7		ug/Kg		93	50 - 150	4	30
Toluene	50.0	42.1		ug/Kg		84	77 - 122	2	20
Chlorobenzene	50.0	43.1		ug/Kg		86	78 - 135	2	20
Tetrahydrofuran	100	101		ug/Kg		101	50 - 150	1	30
Hexane	50.0	42.9		ug/Kg		86	50 - 150	6	35
Cyclohexane	50.0	47.4		ug/Kg		95	50 - 150	7	30
1,2,4-Trichlorobenzene	50.0	51.6		ug/Kg		103	65 - 135	2	26
Chlorodibromomethane	50.0	42.8		ug/Kg		86	77 - 135	2	20
Tetrachloroethene	50.0	42.7		ug/Kg		85	76 - 135	1	20
sec-Butylbenzene	50.0	44.5		ug/Kg		89	69 - 135	1	22
1,3-Dichloropropane	50.0	45.3		ug/Kg		91	74 - 135	4	20
cis-1,2-Dichloroethene	50.0	44.0		ug/Kg		88	76 - 135	2	20
trans-1,2-Dichloroethene	50.0	44.1		ug/Kg		88	77 - 135	4	20
Methyl tert-butyl ether	50.0	46.4		ug/Kg		93	71 - 141	3	20
m-Xylene & p-Xylene	50.0	43.4		ug/Kg		87	77 - 135	3	20
1,3-Dichlorobenzene	50.0	42.7		ug/Kg		85	69 - 135	3	20
Carbon tetrachloride	50.0	44.1		ug/Kg		88	69 - 138	5	20
1,1-Dichloropropene	50.0	45.9		ug/Kg		92	72 - 135	2	20
2-Hexanone	200	180		ug/Kg		90	67 - 150	5	29
2,2-Dichloropropane	50.0	49.2		ug/Kg		98	69 - 135	9	20
Ethyl ether	50.0	48.5		ug/Kg		97	50 - 150	4	20
1,1,1,2-Tetrachloroethane	50.0	43.6		ug/Kg		87	76 - 135	0	20
Acetone	200	219		ug/Kg		109	65 - 150	8	28
Chloroform	50.0	45.3		ug/Kg		91	73 - 123	3	20
Benzene	50.0	44.7		ug/Kg		89	75 - 135	1	20
1,1,1-Trichloroethane	50.0	46.1		ug/Kg		92	70 - 135	5	20
Bromomethane	50.0	50.0		ug/Kg		100	52 - 135	9	22
Chloromethane	50.0	50.5		ug/Kg		101	41 - 138	8	25
Iodomethane	50.0	42.6		ug/Kg		85	74 - 142	6	25
Dibromomethane	50.0	42.9		ug/Kg		86	73 - 135	4	20
Chlorobromomethane	50.0	42.9		ug/Kg		86	74 - 135	2	21
Chloroethane	50.0	56.6		ug/Kg		113	51 - 145	8	22
Vinyl chloride	50.0	51.7		ug/Kg		103	43 - 145	4	24
Methylene Chloride	50.0	46.4		ug/Kg		93	76 - 136	4	21
Carbon disulfide	50.0	42.9		ug/Kg		86	45 - 150	6	24
Bromoform	50.0	41.0		ug/Kg		82	77 - 135	2	20
Dichlorobromomethane	50.0	45.5		ug/Kg		91	73 - 135	1	20
1,1-Dichloroethane	50.0	48.0		ug/Kg		96	70 - 135	5	20
1,1-Dichloroethene	50.0	44.0		ug/Kg		88	79 - 135	4	20
Trichlorofluoromethane	50.0	55.2		ug/Kg		110	48 - 150	8	33
Dichlorodifluoromethane	50.0	35.2		ug/Kg		70	32 - 152	12	28
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.0		ug/Kg		82	50 - 150	5	20
1,2-Dichloropropane	50.0	47.2		ug/Kg		94	72 - 121	1	20
2-Butanone (MEK)	200	202		ug/Kg		101	45 - 177	2	32
1,1,2-Trichloroethane	50.0	42.5		ug/Kg		85	78 - 135	5	20

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

Lab Sample ID: LCSD 280-660290/8-A
Matrix: Solid
Analysis Batch: 660767

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660290

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene	50.0	45.1		ug/Kg		90	77 - 135	4	20
Methyl acetate	100	94.8		ug/Kg		95	50 - 150	7	30
1,1,2,2-Tetrachloroethane	50.0	44.1		ug/Kg		88	65 - 135	8	21
1,2,3-Trichlorobenzene	50.0	50.5		ug/Kg		101	62 - 135	2	31
Hexachlorobutadiene	50.0	54.6		ug/Kg		109	52 - 151	2	25
Naphthalene	50.0	49.2		ug/Kg		98	65 - 135	2	38
o-Xylene	50.0	43.6		ug/Kg		87	75 - 135	2	20
2-Chlorotoluene	50.0	44.4		ug/Kg		89	67 - 135	3	22
1,2-Dichlorobenzene	50.0	46.9		ug/Kg		94	73 - 135	2	20
1,2,4-Trimethylbenzene	50.0	44.6		ug/Kg		89	67 - 135	2	20
1,2-Dibromo-3-Chloropropane	50.0	44.0		ug/Kg		88	66 - 150	2	28
1,2,3-Trichloropropane	50.0	43.3		ug/Kg		87	65 - 135	5	21
Ethyl methacrylate	50.0	44.1		ug/Kg		88	50 - 150	5	30
tert-Butylbenzene	50.0	45.5		ug/Kg		91	66 - 135	1	22
Isopropylbenzene	50.0	45.8		ug/Kg		92	74 - 137	1	20
4-Isopropyltoluene	50.0	44.2		ug/Kg		88	66 - 135	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*58 - 140*
Dibromofluoromethane (Surr)	*102*		*75 - 121*
Toluene-d8 (Surr)	*104*		*80 - 126*
4-Bromofluorobenzene (Surr)	*105*		*76 - 127*

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-193948-1

GC/MS VOA

Prep Batch: 660290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193948-5	Post Stained Soil-07102024 Aliquot 5	Total/NA	Solid	5035	
MB 280-660290/1-A	Method Blank	Total/NA	Solid	5035	
LCS 280-660290/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-660290/8-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 660767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193948-5	Post Stained Soil-07102024 Aliquot 5	Total/NA	Solid	8260D	660290
MB 280-660290/1-A	Method Blank	Total/NA	Solid	8260D	660290
LCS 280-660290/2-A	Lab Control Sample	Total/NA	Solid	8260D	660290
LCSD 280-660290/8-A	Lab Control Sample Dup	Total/NA	Solid	8260D	660290

Lab Chronicle

Client: EA Engineering, Science, and Technology
Job ID: 280-193948-1
Project/Site: ABC Cleaners, NC

Client Sample ID: Post Stained Soil-07102024 Aliquot 5
Lab Sample ID: 280-193948-5

Date Collected: 07/10/24 11:08
Matrix: Solid
Date Received: 07/11/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.446 g	5 g	660290	07/12/24 15:06	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	660767	07/16/24 17:55	JLS	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Job ID: 280-193948-1
Project/Site: ABC Cleaners, NC

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24 *
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	08-02-24
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins !

Client Information	Sampler: Austin Elliot	Lab PM: Megan, McElhany	Carrier Tracking No(s):	COC No:
Client Contact: Sanita Corum	Phone: 757 759-6923	E-Mail: Megan.McElhany@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 1
Company: EA Engineering, Science, and Technology, Inc., PBC	PWSID:	Analysis Requested		Job #: 280-192783
Address: 225 Schilling Circle Suite 400	Due Date Requested: 7/24/2024			
City: Hunt Valley	TAT Requested (days): 5 Days			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-329-5155 (Tel)	PO #: 24987			
Email: northeastap@eaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024283			
Site: 2127 LeJeune Blvd. Jacksonville NC	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC 8260										Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	CB	B	N		
Post Stained Soil -07102024	7/10/24	1200	C	S			X											

280-193948 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Non-Hazard, Flammable, Skin Irritant, Poison B, Unknown, Radiological	Return To Client, Disposal By Lab, Archive For ____ Months
Deliverable Requested: I, II, III, IV Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date: 7/10/2024	Time: 1225	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Austin Elliott	7/10/24 1225			7/11/24 08:00	EET DEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 04375

Cooler Temperature(s) °C and Other Remarks: 14.3 ERTUI CF+0.1

Ver: 01/16/2019

7/18/2024

Page 21 of 23

FedEx Express® Package US Airbill

FedEx Tracking Number 8172 9130 5041

Form ID No. 0200

1 From

Date [redacted]

Sender's Name [redacted] Phone

Company [redacted]

Address [redacted] Dept./Floor/Suite/Room

City [redacted] State [redacted] ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name [redacted] Phone

Company [redacted]

Address [redacted] Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address [redacted]

Use this line for the HOLD location address or for continuation of your shipping address.

City [redacted] State [redacted] ZIP [redacted]

Hold Weekday — FedEx Location address REQUIRED. Not available for FedEx First Overnight.

Hold Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4 Express Package Service * To most locations.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day	2 or 3 Business Days
☑ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.	☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
☐ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.	☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.	☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☐ Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

☐ Saturday Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

☐ Direct Signature — Someone at recipient's address may sign for delivery.

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

One box must be checked.

☐ No ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. ☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. below. Obtain recip. FedEx Acct. No. ☐

☐ Sender — Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party

[redacted]

Total Packages [redacted] Total Weight [redacted] lbs

† Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

644

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8172 9130 5041

280-193948 Waybill

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7/18/2024

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 280-193948-1

Login Number: 193948
List Number: 1
Creator: Rystrom, Joshua R

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Sanita Corum
EA Engineering, Science, and Technology
225 Schilling Circle
Suite 400
Hunt Valley, Maryland 21031

Generated 8/2/2024 10:31:13 AM

JOB DESCRIPTION

ABC Cleaners, NC

JOB NUMBER

280-194228-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

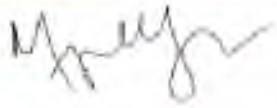
Eurofins Denver

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 TestAmerica Project Manager.

Authorization



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Authorized for release by
Megan McElheny, Project Manager I
Megan.Mcelheny@et.eurofinsus.com
(303)736-0100

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
280-194228-1

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 7/19/2024 8:00 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 2.0°C.

Receipt Exceptions
For the following sample, 2 of 3 encores were not labeled: PS Sample_01-2'_07182024 (280-194228-2). "M04 2" is printed on the back of the unlabeled containers which matches what is also on the back of the labeled volume.

The client sent a revised COC to reflect the correct sample IDs. The original and revised COC are included in this data package.

GC/MS VOA
Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-661159 and analytical batch 280-662440.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 280-661162 and analytical batch 280-662300 recovered outside control limits for multiple analytes. The %R was within control criteria with the exception of Bromomethane.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 280-661162 and analytical batch 280-662300 recovered outside control limits for the following analytes: Chloroethane 156%R(51-145)%R and Bromomethane 230%R(52-135)%R & 161%R LCSD. These analytes were biased high in the LCS and LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-661162 and analytical batch 280-662300.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 280-661159 and analytical batch 280-662399 recovered outside control limits for the following analytes: Bromomethane 24(20). This compound was within control criteria for %R

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-661159 and analytical batch 280-662399.

Method 8260D: The following sample was diluted due to the nature of the sample matrix and non target analytes: PS Soil-FD_2'_07182024 (280-194228-11). 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.

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

Detection Summary

Client: EA Engineering, Science, and Technology
Job ID: 280-194228-1
Project/Site: ABC Cleaners, NC

Client Sample ID: PS Sample_01-1'_07182024 — Lab Sample ID: 280-194228-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	38		18		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: PS Sample_01-2'_07182024 — Lab Sample ID: 280-194228-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	710		75		ug/Kg	1	☼	8260D	Total/NA
2-Butanone (MEK)	35		19		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: PS Sample_02-1'_07182024 — Lab Sample ID: 280-194228-3

No Detections.

Client Sample ID: PS Sample_02-2'_07182024 — Lab Sample ID: 280-194228-4

No Detections.

Client Sample ID: PS Sample_03-1'_07182024 — Lab Sample ID: 280-194228-5

No Detections.

Client Sample ID: PS Sample_03-2'_07182024 — Lab Sample ID: 280-194228-6

No Detections.

Client Sample ID: PS Sample_04-1'_07182024 — Lab Sample ID: 280-194228-7

No Detections.

Client Sample ID: PS Sample_04-2'_07182024 — Lab Sample ID: 280-194228-8

No Detections.

Client Sample ID: PS Sample_05-1'_07182024 — Lab Sample ID: 280-194228-9

No Detections.

Client Sample ID: PS Sample_05-2'_07182024 — Lab Sample ID: 280-194228-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3500		250		ug/Kg	1	☼	8260D	Total/NA
4-Isopropyltoluene	740	*1	250		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: PS Soil-FD_2'_07182024 — Lab Sample ID: 280-194228-11

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-194228-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
Moisture	Percent Moisture	EPA	EET DEN
5035	Closed System Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-194228-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-194228-1	PS Sample_01-1'_07182024	Solid	07/18/24 07:10	07/19/24 08:00
280-194228-2	PS Sample_01-2'_07182024	Solid	07/18/24 07:15	07/19/24 08:00
280-194228-3	PS Sample_02-1'_07182024	Solid	07/18/24 07:30	07/19/24 08:00
280-194228-4	PS Sample_02-2'_07182024	Solid	07/18/24 07:35	07/19/24 08:00
280-194228-5	PS Sample_03-1'_07182024	Solid	07/18/24 07:40	07/19/24 08:00
280-194228-6	PS Sample_03-2'_07182024	Solid	07/18/24 07:45	07/19/24 08:00
280-194228-7	PS Sample_04-1'_07182024	Solid	07/18/24 08:05	07/19/24 08:00
280-194228-8	PS Sample_04-2'_07182024	Solid	07/18/24 08:10	07/19/24 08:00
280-194228-9	PS Sample_05-1'_07182024	Solid	07/18/24 08:40	07/19/24 08:00
280-194228-10	PS Sample_05-2'_07182024	Solid	07/18/24 08:45	07/19/24 08:00
280-194228-11	PS Soil-FD_2'_07182024	Solid	07/18/24 00:00	07/19/24 08:00

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

Client Sample ID: PS Sample_01-1'_07182024
Date Collected: 07/18/24 07:10
Date Received: 07/19/24 08:00

Lab Sample ID: 280-194228-1
Matrix: Solid
Percent Solids: 85.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Styrene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
cis-1,3-Dichloropropene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
trans-1,3-Dichloropropene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
N-Propylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
n-Butylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
4-Chlorotoluene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,4-Dichlorobenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Ethylene Dibromide	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
3-Chloro-1-propene	9.2	U	9.2		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,2-Dichloroethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Vinyl acetate	9.2	U	9.2		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
4-Methyl-2-pentanone (MIBK)	18	U	18		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,3,5-Trimethylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Bromobenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Methylcyclohexane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Toluene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Chlorobenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Tetrahydrofuran	18	U	18		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Hexane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Cyclohexane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,2,4-Trichlorobenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Chlorodibromomethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Tetrachloroethene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
sec-Butylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,3-Dichloropropane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
cis-1,2-Dichloroethene	2.3	U	2.3		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
trans-1,2-Dichloroethene	2.3	U	2.3		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Methyl tert-butyl ether	18	U	18		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
m-Xylene & p-Xylene	2.3	U	2.3		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,3-Dichlorobenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Carbon tetrachloride	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,1-Dichloropropene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
2-Hexanone	18	U	18		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
2,2-Dichloropropane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Ethyl ether	9.2	U	9.2		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,1,1,2-Tetrachloroethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Chloroform	9.2	U	9.2		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Benzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,1,1-Trichloroethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Bromomethane	9.2	U *1	9.2		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Chloromethane	9.2	U	9.2		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Iodomethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Dibromomethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Chlorobromomethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Chloroethane	9.2	U	9.2		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Vinyl chloride	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Methylene Chloride	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Carbon disulfide	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1

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

Client Sample ID: PS Sample_01-1'_07182024 — **Lab Sample ID: 280-194228-1**
Date Collected: 07/18/24 07:10 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 85.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Dichlorobromomethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,1-Dichloroethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,1-Dichloroethene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Trichlorofluoromethane	9.2	U	9.2		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Dichlorodifluoromethane	9.2	U	9.2		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	18	U	18		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,2-Dichloropropane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
2-Butanone (MEK)	38		18		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,1,2-Trichloroethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Trichloroethene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Methyl acetate	9.2	U	9.2		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,1,2,2-Tetrachloroethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,2,3-Trichlorobenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Hexachlorobutadiene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Naphthalene	6.1	U	6.1		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
o-Xylene	2.3	U	2.3		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
2-Chlorotoluene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,2-Dichlorobenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,2,4-Trimethylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,2-Dibromo-3-Chloropropane	9.2	U	9.2		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,2,3-Trichloropropane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Ethyl methacrylate	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
tert-Butylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Isopropylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
4-Isopropyltoluene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Xylenes, Total	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,2-Dichloroethene, Total	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
1,3-Dichloropropene, Total	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Trihalomethanes, Total	9.2	U	9.2		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1
Total BTEX	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/29/24 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*58 - 140*	*07/19/24 19:46*	*07/29/24 17:20*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*	*07/19/24 19:46*	*07/29/24 17:20*	*1*
Toluene-d8 (Surr)	*98*		*80 - 126*	*07/19/24 19:46*	*07/29/24 17:20*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*07/19/24 19:46*	*07/29/24 17:20*	*1*

Client Sample ID: PS Sample_01-2'_07182024 — **Lab Sample ID: 280-194228-2**
Date Collected: 07/18/24 07:15 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 85.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Styrene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
cis-1,3-Dichloropropene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
trans-1,3-Dichloropropene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
N-Propylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
n-Butylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
4-Chlorotoluene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,4-Dichlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1

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

Client Sample ID: PS Sample_01-2'_07182024
Lab Sample ID: 280-194228-2
Date Collected: 07/18/24 07:15
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
3-Chloro-1-propene	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,2-Dichloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Vinyl acetate	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
4-Methyl-2-pentanone (MIBK)	19	U	19		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,3,5-Trimethylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Bromobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Methylcyclohexane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Toluene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Chlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Tetrahydrofuran	19	U	19		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Hexane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Cyclohexane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,2,4-Trichlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Chlorodibromomethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Tetrachloroethene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
sec-Butylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,3-Dichloropropane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
cis-1,2-Dichloroethene	2.3	U	2.3		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
trans-1,2-Dichloroethene	2.3	U	2.3		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Methyl tert-butyl ether	19	U	19		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
m-Xylene & p-Xylene	2.3	U	2.3		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,3-Dichlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Carbon tetrachloride	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,1-Dichloropropene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
2-Hexanone	19	U	19		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
2,2-Dichloropropane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Ethyl ether	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,1,1,2-Tetrachloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Acetone	**710**		75		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Chloroform	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Benzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,1,1-Trichloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Bromomethane	9.4	U *1	9.4		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Chloromethane	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Iodomethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Dibromomethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Chlorobromomethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Chloroethane	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Vinyl chloride	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Methylene Chloride	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Carbon disulfide	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Bromoform	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Dichlorobromomethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,1-Dichloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,1-Dichloroethene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Trichlorofluoromethane	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Dichlorodifluoromethane	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	19	U	19		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1

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

Client Sample ID: PS Sample_01-2'_07182024
Date Collected: 07/18/24 07:15
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194228-2
Matrix: Solid
Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
2-Butanone (MEK)	35		19		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,1,2-Trichloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Trichloroethene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Methyl acetate	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,1,2,2-Tetrachloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,2,3-Trichlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Hexachlorobutadiene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Naphthalene	6.2	U	6.2		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
o-Xylene	2.3	U	2.3		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
2-Chlorotoluene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,2-Dichlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,2,4-Trimethylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,2-Dibromo-3-Chloropropane	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,2,3-Trichloropropane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Ethyl methacrylate	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
tert-Butylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Isopropylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
4-Isopropyltoluene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Xylenes, Total	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,2-Dichloroethene, Total	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
1,3-Dichloropropene, Total	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Trihalomethanes, Total	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1
Total BTEX	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/29/24 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*58 - 140*	*07/19/24 19:46*	*07/29/24 17:40*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*	*07/19/24 19:46*	*07/29/24 17:40*	*1*
Toluene-d8 (Surr)	*100*		*80 - 126*	*07/19/24 19:46*	*07/29/24 17:40*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*	*07/19/24 19:46*	*07/29/24 17:40*	*1*

Client Sample ID: PS Sample_02-1'_07182024
Date Collected: 07/18/24 07:30
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194228-3
Matrix: Solid
Percent Solids: 87.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Styrene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
cis-1,3-Dichloropropene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
trans-1,3-Dichloropropene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
N-Propylbenzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
n-Butylbenzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
4-Chlorotoluene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,4-Dichlorobenzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Ethylene Dibromide	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
3-Chloro-1-propene	8.8	U	8.8		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,2-Dichloroethane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Vinyl acetate	8.8	U	8.8		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
4-Methyl-2-pentanone (MIBK)	18	U	18		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,3,5-Trimethylbenzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Bromobenzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1

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

Client Sample ID: PS Sample_02-1'_07182024
Lab Sample ID: 280-194228-3
Date Collected: 07/18/24 07:30
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 87.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Toluene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Chlorobenzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Tetrahydrofuran	18	U	18		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Hexane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Cyclohexane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,2,4-Trichlorobenzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Chlorodibromomethane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Tetrachloroethene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
sec-Butylbenzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,3-Dichloropropane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
cis-1,2-Dichloroethene	2.2	U	2.2		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
trans-1,2-Dichloroethene	2.2	U	2.2		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Methyl tert-butyl ether	18	U	18		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
m-Xylene & p-Xylene	2.2	U	2.2		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,3-Dichlorobenzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Carbon tetrachloride	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,1-Dichloropropene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
2-Hexanone	18	U	18		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
2,2-Dichloropropane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Ethyl ether	8.8	U	8.8		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,1,1,2-Tetrachloroethane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Acetone	70	U	70		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Chloroform	8.8	U	8.8		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Benzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,1,1-Trichloroethane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Bromomethane	8.8	U *1	8.8		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Chloromethane	8.8	U	8.8		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Iodomethane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Dibromomethane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Chlorobromomethane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Chloroethane	8.8	U	8.8		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Vinyl chloride	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Methylene Chloride	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Carbon disulfide	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Bromoform	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Dichlorobromomethane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,1-Dichloroethane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,1-Dichloroethene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Trichlorofluoromethane	8.8	U	8.8		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Dichlorodifluoromethane	8.8	U	8.8		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	18	U	18		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,2-Dichloropropane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
2-Butanone (MEK)	18	U	18		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,1,2-Trichloroethane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Trichloroethene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Methyl acetate	8.8	U	8.8		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,1,2,2-Tetrachloroethane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,2,3-Trichlorobenzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1

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

Client Sample ID: PS Sample_02-1'_07182024 — **Lab Sample ID: 280-194228-3**
Date Collected: 07/18/24 07:30 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 87.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Naphthalene	5.8	U	5.8		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
o-Xylene	2.2	U	2.2		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
2-Chlorotoluene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,2-Dichlorobenzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,2,4-Trimethylbenzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,2-Dibromo-3-Chloropropane	8.8	U	8.8		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,2,3-Trichloropropane	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Ethyl methacrylate	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
tert-Butylbenzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Isopropylbenzene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
4-Isopropyltoluene	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Xylenes, Total	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,2-Dichloroethene, Total	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
1,3-Dichloropropene, Total	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Trihalomethanes, Total	8.8	U	8.8		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1
Total BTEX	4.4	U	4.4		ug/Kg	☼	07/19/24 19:46	07/29/24 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*58 - 140*	*07/19/24 19:46*	*07/29/24 18:00*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*	*07/19/24 19:46*	*07/29/24 18:00*	*1*
Toluene-d8 (Surr)	*102*		*80 - 126*	*07/19/24 19:46*	*07/29/24 18:00*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*	*07/19/24 19:46*	*07/29/24 18:00*	*1*

Client Sample ID: PS Sample_02-2'_07182024 — **Lab Sample ID: 280-194228-4**
Date Collected: 07/18/24 07:35 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 84.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Styrene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
cis-1,3-Dichloropropene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
trans-1,3-Dichloropropene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
N-Propylbenzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
n-Butylbenzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
4-Chlorotoluene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,4-Dichlorobenzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Ethylene Dibromide	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
3-Chloro-1-propene	9.7	U	9.7		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,2-Dichloroethane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Vinyl acetate	9.7	U	9.7		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
4-Methyl-2-pentanone (MIBK)	19	U	19		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,3,5-Trimethylbenzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Bromobenzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Methylcyclohexane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Toluene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Chlorobenzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Tetrahydrofuran	19	U	19		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Hexane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Cyclohexane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,2,4-Trichlorobenzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1

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

Client Sample ID: PS Sample_02-2'_07182024
Lab Sample ID: 280-194228-4
Date Collected: 07/18/24 07:35
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Tetrachloroethene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
sec-Butylbenzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,3-Dichloropropane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
cis-1,2-Dichloroethene	2.4	U	2.4		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
trans-1,2-Dichloroethene	2.4	U	2.4		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Methyl tert-butyl ether	19	U	19		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
m-Xylene & p-Xylene	2.4	U	2.4		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,3-Dichlorobenzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Carbon tetrachloride	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,1-Dichloropropene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
2-Hexanone	19	U	19		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
2,2-Dichloropropane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Ethyl ether	9.7	U	9.7		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,1,1,2-Tetrachloroethane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Acetone	77	U	77		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Chloroform	9.7	U	9.7		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Benzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,1,1-Trichloroethane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Bromomethane	9.7	U	9.7		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Chloromethane	9.7	U	9.7		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Iodomethane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Dibromomethane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Chlorobromomethane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Chloroethane	9.7	U	9.7		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Vinyl chloride	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Methylene Chloride	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Carbon disulfide	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Bromoform	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Dichlorobromomethane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,1-Dichloroethane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,1-Dichloroethene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Trichlorofluoromethane	9.7	U	9.7		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Dichlorodifluoromethane	9.7	U	9.7		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	19	U	19		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,2-Dichloropropane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
2-Butanone (MEK)	19	U	19		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,1,2-Trichloroethane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Trichloroethene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Methyl acetate	9.7	U	9.7		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,1,2,2-Tetrachloroethane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,2,3-Trichlorobenzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Hexachlorobutadiene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Naphthalene	6.4	U	6.4		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
o-Xylene	2.4	U	2.4		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
2-Chlorotoluene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,2-Dichlorobenzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,2,4-Trimethylbenzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,2-Dibromo-3-Chloropropane	9.7	U	9.7		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1

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

Client Sample ID: PS Sample_02-2'_07182024 — **Lab Sample ID: 280-194228-4**
Date Collected: 07/18/24 07:35 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 84.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Ethyl methacrylate	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
tert-Butylbenzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Isopropylbenzene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
4-Isopropyltoluene	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Xylenes, Total	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,2-Dichloroethene, Total	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
1,3-Dichloropropene, Total	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Trihalomethanes, Total	9.7	U	9.7		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1
Total BTEX	4.8	U	4.8		ug/Kg	☼	07/19/24 19:46	07/31/24 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*58 - 140*	*07/19/24 19:46*	*07/31/24 21:01*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*07/19/24 19:46*	*07/31/24 21:01*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*07/19/24 19:46*	*07/31/24 21:01*	*1*
4-Bromofluorobenzene (Surr)	*108*		*76 - 127*	*07/19/24 19:46*	*07/31/24 21:01*	*1*

Client Sample ID: PS Sample_03-1'_07182024 — **Lab Sample ID: 280-194228-5**
Date Collected: 07/18/24 07:40 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 83.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Styrene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
N-Propylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
n-Butylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
4-Chlorotoluene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Ethylene Dibromide	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
3-Chloro-1-propene	9.9	U	9.9		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Vinyl acetate	9.9	U	9.9		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,3,5-Trimethylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Bromobenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Methylcyclohexane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Toluene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Chlorobenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Tetrahydrofuran	20	U	20		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Hexane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Cyclohexane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Chlorodibromomethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Tetrachloroethene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
sec-Butylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,3-Dichloropropane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
cis-1,2-Dichloroethene	2.5	U	2.5		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
trans-1,2-Dichloroethene	2.5	U	2.5		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Methyl tert-butyl ether	20	U	20		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1

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

Client Sample ID: PS Sample_03-1'_07182024
Date Collected: 07/18/24 07:40
Date Received: 07/19/24 08:00

Lab Sample ID: 280-194228-5
Matrix: Solid
Percent Solids: 83.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	2.5	U	2.5		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Carbon tetrachloride	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,1-Dichloropropene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
2-Hexanone	20	U	20		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
2,2-Dichloropropane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Ethyl ether	9.9	U	9.9		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,1,1,2-Tetrachloroethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Acetone	79	U	79		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Chloroform	9.9	U	9.9		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Benzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Bromomethane	9.9	U	9.9		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Chloromethane	9.9	U	9.9		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Iodomethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Dibromomethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Chlorobromomethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Chloroethane	9.9	U	9.9		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Vinyl chloride	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Methylene Chloride	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Carbon disulfide	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Bromoform	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Dichlorobromomethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,1-Dichloroethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Trichlorofluoromethane	9.9	U	9.9		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Dichlorodifluoromethane	9.9	U	9.9		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
2-Butanone (MEK)	20	U	20		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Trichloroethene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Methyl acetate	9.9	U	9.9		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,2,3-Trichlorobenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Hexachlorobutadiene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Naphthalene	6.5	U	6.5		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
o-Xylene	2.5	U	2.5		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
2-Chlorotoluene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,2,4-Trimethylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,2-Dibromo-3-Chloropropane	9.9	U	9.9		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,2,3-Trichloropropane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Ethyl methacrylate	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
tert-Butylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Isopropylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
4-Isopropyltoluene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Xylenes, Total	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
1,2-Dichloroethene, Total	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1

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

Client Sample ID: PS Sample_03-1'_07182024 — **Lab Sample ID: 280-194228-5**
Date Collected: 07/18/24 07:40 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 83.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropene, Total	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Trihalomethanes, Total	9.9	U	9.9		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1
Total BTEX	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*58 - 140*	*07/19/24 19:46*	*07/31/24 21:20*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*	*07/19/24 19:46*	*07/31/24 21:20*	*1*
Toluene-d8 (Surr)	*102*		*80 - 126*	*07/19/24 19:46*	*07/31/24 21:20*	*1*
4-Bromofluorobenzene (Surr)	*108*		*76 - 127*	*07/19/24 19:46*	*07/31/24 21:20*	*1*

Client Sample ID: PS Sample_03-2'_07182024 — **Lab Sample ID: 280-194228-6**
Date Collected: 07/18/24 07:45 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 84.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Styrene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
cis-1,3-Dichloropropene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
trans-1,3-Dichloropropene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
N-Propylbenzene	230	U *1	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
n-Butylbenzene	230	U *1	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
4-Chlorotoluene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,4-Dichlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Ethylene Dibromide	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
3-Chloro-1-propene	470	U	470		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,2-Dichloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Vinyl acetate	470	U	470		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
4-Methyl-2-pentanone (MIBK)	930	U	930		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,3,5-Trimethylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Bromobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Methylcyclohexane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Toluene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Chlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Tetrahydrofuran	930	U	930		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Hexane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Cyclohexane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,2,4-Trichlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Chlorodibromomethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Tetrachloroethene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
sec-Butylbenzene	230	U *1	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,3-Dichloropropane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
cis-1,2-Dichloroethene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
trans-1,2-Dichloroethene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Methyl tert-butyl ether	930	U	930		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
m-Xylene & p-Xylene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,3-Dichlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Carbon tetrachloride	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,1-Dichloropropene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
2-Hexanone	930	U	930		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
2,2-Dichloropropane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Ethyl ether	470	U	470		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1

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

Client Sample ID: PS Sample_03-2'_07182024
Date Collected: 07/18/24 07:45
Date Received: 07/19/24 08:00

Lab Sample ID: 280-194228-6
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Acetone	3700	U	3700		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Chloroform	470	U	470		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Benzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,1,1-Trichloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Bromomethane	470	U *+ *1	470		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Chloromethane	470	U	470		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Iodomethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Dibromomethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Chlorobromomethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Chloroethane	470	U *1 *+	470		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Vinyl chloride	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Methylene Chloride	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Carbon disulfide	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Bromoform	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Dichlorobromomethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,1-Dichloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,1-Dichloroethene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Trichlorofluoromethane	470	U	470		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Dichlorodifluoromethane	470	U	470		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	930	U	930		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,2-Dichloropropane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
2-Butanone (MEK)	930	U	930		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,1,2-Trichloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Trichloroethene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Methyl acetate	470	U	470		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,1,2,2-Tetrachloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,2,3-Trichlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Hexachlorobutadiene	230	U *1	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Naphthalene	310	U	310		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
o-Xylene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
2-Chlorotoluene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,2-Dichlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,2,4-Trimethylbenzene	230	U *1	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,2-Dibromo-3-Chloropropane	470	U	470		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,2,3-Trichloropropane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Ethyl methacrylate	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
tert-Butylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Isopropylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
4-Isopropyltoluene	230	U *1	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Xylenes, Total	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,2-Dichloroethene, Total	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
1,3-Dichloropropene, Total	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Trihalomethanes, Total	470	U	470		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1
Total BTEX	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*	*07/19/24 21:47*	*07/31/24 00:21*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 121*	*07/19/24 21:47*	*07/31/24 00:21*	*1*
Toluene-d8 (Surr)	*104*		*80 - 126*	*07/19/24 21:47*	*07/31/24 00:21*	*1*

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

Client Sample ID: PS Sample_03-2'_07182024
Lab Sample ID: 280-194228-6
Date Collected: 07/18/24 07:45
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 84.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*76 - 127*	*07/19/24 21:47*	*07/31/24 00:21*	*1*

Client Sample ID: PS Sample_04-1'_07182024
Lab Sample ID: 280-194228-7
Date Collected: 07/18/24 08:05
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 87.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Styrene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
cis-1,3-Dichloropropene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
trans-1,3-Dichloropropene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
N-Propylbenzene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
n-Butylbenzene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
4-Chlorotoluene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
1,4-Dichlorobenzene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Ethylene Dibromide	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
3-Chloro-1-propene	12	U	12		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
1,2-Dichloroethane	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Vinyl acetate	12	U	12		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
4-Methyl-2-pentanone (MIBK)	24	U	24		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
1,3,5-Trimethylbenzene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Bromobenzene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Methylcyclohexane	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Toluene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Chlorobenzene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Tetrahydrofuran	24	U	24		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Hexane	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Cyclohexane	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
1,2,4-Trichlorobenzene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Chlorodibromomethane	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Tetrachloroethene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
sec-Butylbenzene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
1,3-Dichloropropane	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
cis-1,2-Dichloroethene	3.0	U	3.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
trans-1,2-Dichloroethene	3.0	U	3.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Methyl tert-butyl ether	24	U	24		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
m-Xylene & p-Xylene	3.0	U	3.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
1,3-Dichlorobenzene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Carbon tetrachloride	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
1,1-Dichloropropene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
2-Hexanone	24	U	24		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
2,2-Dichloropropane	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Ethyl ether	12	U	12		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
1,1,1,2-Tetrachloroethane	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Acetone	95	U	95		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Chloroform	12	U	12		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Benzene	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
1,1,1-Trichloroethane	6.0	U	6.0		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Bromomethane	12	U	12		ug/Kg		07/19/24 19:46	07/31/24 21:40	1
Chloromethane	12	U	12		ug/Kg		07/19/24 19:46	07/31/24 21:40	1

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

Client Sample ID: PS Sample_04-1'_07182024 — **Lab Sample ID: 280-194228-7**
Date Collected: 07/18/24 08:05 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 87.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Dibromomethane	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Chlorobromomethane	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Chloroethane	12	U	12		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Vinyl chloride	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Methylene Chloride	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Carbon disulfide	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Bromoform	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Dichlorobromomethane	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
1,1-Dichloroethane	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
1,1-Dichloroethene	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Trichlorofluoromethane	12	U	12		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Dichlorodifluoromethane	12	U	12		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	24		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
1,2-Dichloropropane	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
2-Butanone (MEK)	24	U	24		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
1,1,2-Trichloroethane	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Trichloroethene	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Methyl acetate	12	U	12		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
1,1,2,2-Tetrachloroethane	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
1,2,3-Trichlorobenzene	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Hexachlorobutadiene	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Naphthalene	7.9	U	7.9		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
o-Xylene	3.0	U	3.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
2-Chlorotoluene	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
1,2-Dichlorobenzene	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
1,2,4-Trimethylbenzene	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
1,2-Dibromo-3-Chloropropane	12	U	12		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
1,2,3-Trichloropropane	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Ethyl methacrylate	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
tert-Butylbenzene	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Isopropylbenzene	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
4-Isopropyltoluene	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Xylenes, Total	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
1,2-Dichloroethene, Total	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
1,3-Dichloropropene, Total	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Trihalomethanes, Total	12	U	12		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1
Total BTEX	6.0	U	6.0		ug/Kg	☼	07/19/24 19:46	07/31/24 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*58 - 140*	*07/19/24 19:46*	*07/31/24 21:40*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*07/19/24 19:46*	*07/31/24 21:40*	*1*
Toluene-d8 (Surr)	*102*		*80 - 126*	*07/19/24 19:46*	*07/31/24 21:40*	*1*
4-Bromofluorobenzene (Surr)	*109*		*76 - 127*	*07/19/24 19:46*	*07/31/24 21:40*	*1*

Client Sample ID: PS Sample_04-2'_07182024 — **Lab Sample ID: 280-194228-8**
Date Collected: 07/18/24 08:10 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 87.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1

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

Client Sample ID: PS Sample_04-2'_07182024
Date Collected: 07/18/24 08:10
Date Received: 07/19/24 08:00

Lab Sample ID: 280-194228-8
Matrix: Solid
Percent Solids: 87.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
cis-1,3-Dichloropropene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
trans-1,3-Dichloropropene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
N-Propylbenzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
n-Butylbenzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
4-Chlorotoluene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,4-Dichlorobenzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Ethylene Dibromide	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
3-Chloro-1-propene	11	U	11		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,2-Dichloroethane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Vinyl acetate	11	U	11		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,3,5-Trimethylbenzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Bromobenzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Methylcyclohexane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Toluene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Chlorobenzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Tetrahydrofuran	23	U	23		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Hexane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Cyclohexane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,2,4-Trichlorobenzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Chlorodibromomethane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Tetrachloroethene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
sec-Butylbenzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,3-Dichloropropane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
cis-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
trans-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Methyl tert-butyl ether	23	U	23		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
m-Xylene & p-Xylene	2.8	U	2.8		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,3-Dichlorobenzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Carbon tetrachloride	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,1-Dichloropropene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
2-Hexanone	23	U	23		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
2,2-Dichloropropane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Ethyl ether	11	U	11		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,1,1,2-Tetrachloroethane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Acetone	90	U	90		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Chloroform	11	U	11		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Benzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,1,1-Trichloroethane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Bromomethane	11	U	11		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Chloromethane	11	U	11		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Iodomethane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Dibromomethane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Chlorobromomethane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Chloroethane	11	U	11		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Vinyl chloride	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Methylene Chloride	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Carbon disulfide	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1

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

Client Sample ID: PS Sample_04-2'_07182024
Lab Sample ID: 280-194228-8
Date Collected: 07/18/24 08:10
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 87.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Dichlorobromomethane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,1-Dichloroethane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,1-Dichloroethene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Trichlorofluoromethane	11	U	11		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Dichlorodifluoromethane	11	U	11		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	23		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,2-Dichloropropane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,1,2-Trichloroethane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Trichloroethene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Methyl acetate	11	U	11		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,1,2,2-Tetrachloroethane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,2,3-Trichlorobenzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Hexachlorobutadiene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Naphthalene	7.4	U	7.4		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
o-Xylene	2.8	U	2.8		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
2-Chlorotoluene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,2-Dichlorobenzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,2,4-Trimethylbenzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,2,3-Trichloropropane	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Ethyl methacrylate	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
tert-Butylbenzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Isopropylbenzene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
4-Isopropyltoluene	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Xylenes, Total	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,2-Dichloroethene, Total	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
1,3-Dichloropropene, Total	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Trihalomethanes, Total	11	U	11		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1
Total BTEX	5.6	U	5.6		ug/Kg	☼	07/19/24 19:46	07/31/24 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*58 - 140*	*07/19/24 19:46*	*07/31/24 22:00*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*07/19/24 19:46*	*07/31/24 22:00*	*1*
Toluene-d8 (Surr)	*104*		*80 - 126*	*07/19/24 19:46*	*07/31/24 22:00*	*1*
4-Bromofluorobenzene (Surr)	*109*		*76 - 127*	*07/19/24 19:46*	*07/31/24 22:00*	*1*

Client Sample ID: PS Sample_05-1'_07182024
Lab Sample ID: 280-194228-9
Date Collected: 07/18/24 08:40
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 88.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Styrene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
cis-1,3-Dichloropropene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
trans-1,3-Dichloropropene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
N-Propylbenzene	220	U *1	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
n-Butylbenzene	220	U *1	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
4-Chlorotoluene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,4-Dichlorobenzene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1

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

Client Sample ID: PS Sample_05-1'_07182024
Lab Sample ID: 280-194228-9
Date Collected: 07/18/24 08:40
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 88.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
3-Chloro-1-propene	450	U	450		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,2-Dichloroethane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Vinyl acetate	450	U	450		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
4-Methyl-2-pentanone (MIBK)	900	U	900		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,3,5-Trimethylbenzene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Bromobenzene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Methylcyclohexane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Toluene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Chlorobenzene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Tetrahydrofuran	900	U	900		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Hexane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Cyclohexane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,2,4-Trichlorobenzene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Chlorodibromomethane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Tetrachloroethene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
sec-Butylbenzene	220	U *1	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,3-Dichloropropane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
cis-1,2-Dichloroethene	110	U	110		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
trans-1,2-Dichloroethene	110	U	110		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Methyl tert-butyl ether	900	U	900		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
m-Xylene & p-Xylene	110	U	110		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,3-Dichlorobenzene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Carbon tetrachloride	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,1-Dichloropropene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
2-Hexanone	900	U	900		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
2,2-Dichloropropane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Ethyl ether	450	U	450		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,1,1,2-Tetrachloroethane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Acetone	3600	U	3600		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Chloroform	450	U	450		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Benzene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,1,1-Trichloroethane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Bromomethane	450	U *+ *1	450		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Chloromethane	450	U	450		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Iodomethane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Dibromomethane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Chlorobromomethane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Chloroethane	450	U *1 *+	450		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Vinyl chloride	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Methylene Chloride	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Carbon disulfide	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Bromoform	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Dichlorobromomethane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,1-Dichloroethane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,1-Dichloroethene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Trichlorofluoromethane	450	U	450		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Dichlorodifluoromethane	450	U	450		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	900	U	900		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1

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

Client Sample ID: PS Sample_05-1'_07182024 — **Lab Sample ID: 280-194228-9**
Date Collected: 07/18/24 08:40 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 88.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
2-Butanone (MEK)	900	U	900		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,1,2-Trichloroethane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Trichloroethene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Methyl acetate	450	U	450		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,1,2,2-Tetrachloroethane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,2,3-Trichlorobenzene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Hexachlorobutadiene	220	U *1	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Naphthalene	300	U	300		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
o-Xylene	110	U	110		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
2-Chlorotoluene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,2-Dichlorobenzene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,2,4-Trimethylbenzene	220	U *1	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,2-Dibromo-3-Chloropropane	450	U	450		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,2,3-Trichloropropane	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Ethyl methacrylate	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
tert-Butylbenzene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Isopropylbenzene	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
4-Isopropyltoluene	220	U *1	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Xylenes, Total	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,2-Dichloroethene, Total	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
1,3-Dichloropropene, Total	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Trihalomethanes, Total	450	U	450		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1
Total BTEX	220	U	220		ug/Kg	☼	07/19/24 21:47	07/31/24 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*58 - 140*	*07/19/24 21:47*	*07/31/24 01:20*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 121*	*07/19/24 21:47*	*07/31/24 01:20*	*1*
Toluene-d8 (Surr)	*105*		*80 - 126*	*07/19/24 21:47*	*07/31/24 01:20*	*1*
4-Bromofluorobenzene (Surr)	*107*		*76 - 127*	*07/19/24 21:47*	*07/31/24 01:20*	*1*

Client Sample ID: PS Sample_05-2'_07182024 — **Lab Sample ID: 280-194228-10**
Date Collected: 07/18/24 08:45 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 81.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Styrene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
cis-1,3-Dichloropropene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
trans-1,3-Dichloropropene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
N-Propylbenzene	250	U *1	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
n-Butylbenzene	250	U *1	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
4-Chlorotoluene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,4-Dichlorobenzene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Ethylene Dibromide	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
3-Chloro-1-propene	510	U	510		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,2-Dichloroethane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Vinyl acetate	510	U	510		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
4-Methyl-2-pentanone (MIBK)	1000	U	1000		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,3,5-Trimethylbenzene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Bromobenzene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1

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

Client Sample ID: PS Sample_05-2'_07182024
Lab Sample ID: 280-194228-10
Date Collected: 07/18/24 08:45
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 81.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Toluene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Chlorobenzene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Tetrahydrofuran	1000	U	1000		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Hexane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Cyclohexane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,2,4-Trichlorobenzene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Chlorodibromomethane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Tetrachloroethene	**3500**		250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
sec-Butylbenzene	250	U *1	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,3-Dichloropropane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
cis-1,2-Dichloroethene	130	U	130		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
trans-1,2-Dichloroethene	130	U	130		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Methyl tert-butyl ether	1000	U	1000		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
m-Xylene & p-Xylene	130	U	130		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,3-Dichlorobenzene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Carbon tetrachloride	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,1-Dichloropropene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
2-Hexanone	1000	U	1000		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
2,2-Dichloropropane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Ethyl ether	510	U	510		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,1,1,2-Tetrachloroethane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Acetone	4100	U	4100		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Chloroform	510	U	510		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Benzene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,1,1-Trichloroethane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Bromomethane	510	U *+ *1	510		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Chloromethane	510	U	510		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Iodomethane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Dibromomethane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Chlorobromomethane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Chloroethane	510	U *1 *+	510		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Vinyl chloride	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Methylene Chloride	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Carbon disulfide	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Bromoform	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Dichlorobromomethane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,1-Dichloroethane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,1-Dichloroethene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Trichlorofluoromethane	510	U	510		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Dichlorodifluoromethane	510	U	510		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1000	U	1000		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,2-Dichloropropane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
2-Butanone (MEK)	1000	U	1000		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,1,2-Trichloroethane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Trichloroethene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Methyl acetate	510	U	510		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,1,2,2-Tetrachloroethane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,2,3-Trichlorobenzene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1

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

Client Sample ID: PS Sample_05-2'_07182024
Lab Sample ID: 280-194228-10
Date Collected: 07/18/24 08:45
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 81.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	250	U *1	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Naphthalene	340	U	340		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
o-Xylene	130	U	130		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
2-Chlorotoluene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,2-Dichlorobenzene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,2,4-Trimethylbenzene	250	U *1	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,2-Dibromo-3-Chloropropane	510	U	510		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,2,3-Trichloropropane	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Ethyl methacrylate	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
tert-Butylbenzene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Isopropylbenzene	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
4-Isopropyltoluene	**740**	***1**	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Xylenes, Total	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,2-Dichloroethene, Total	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
1,3-Dichloropropene, Total	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Trihalomethanes, Total	510	U	510		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1
Total BTEX	250	U	250		ug/Kg	☼	07/19/24 21:47	07/31/24 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*58 - 140*	*07/19/24 21:47*	*07/31/24 01:39*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 121*	*07/19/24 21:47*	*07/31/24 01:39*	*1*
Toluene-d8 (Surr)	*104*		*80 - 126*	*07/19/24 21:47*	*07/31/24 01:39*	*1*
4-Bromofluorobenzene (Surr)	*107*		*76 - 127*	*07/19/24 21:47*	*07/31/24 01:39*	*1*

Client Sample ID: PS Soil-FD_2'_07182024
Lab Sample ID: 280-194228-11
Date Collected: 07/18/24 00:00
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 85.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Styrene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
cis-1,3-Dichloropropene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
trans-1,3-Dichloropropene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
N-Propylbenzene	230	U *1	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
n-Butylbenzene	230	U *1	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
4-Chlorotoluene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,4-Dichlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Ethylene Dibromide	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
3-Chloro-1-propene	460	U	460		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,2-Dichloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Vinyl acetate	460	U	460		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
4-Methyl-2-pentanone (MIBK)	930	U	930		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,3,5-Trimethylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Bromobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Methylcyclohexane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Toluene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Chlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Tetrahydrofuran	930	U	930		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Hexane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Cyclohexane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,2,4-Trichlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1

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

Client Sample ID: PS Soil-FD_2'_07182024
Lab Sample ID: 280-194228-11
Date Collected: 07/18/24 00:00
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 85.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Tetrachloroethene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
sec-Butylbenzene	230	U *1	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,3-Dichloropropane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
cis-1,2-Dichloroethene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
trans-1,2-Dichloroethene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Methyl tert-butyl ether	930	U	930		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
m-Xylene & p-Xylene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,3-Dichlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Carbon tetrachloride	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,1-Dichloropropene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
2-Hexanone	930	U	930		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
2,2-Dichloropropane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Ethyl ether	460	U	460		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,1,1,2-Tetrachloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Acetone	3700	U	3700		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Chloroform	460	U	460		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Benzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,1,1-Trichloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Bromomethane	460	U *+ *1	460		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Chloromethane	460	U	460		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Iodomethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Dibromomethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Chlorobromomethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Chloroethane	460	U *1 *+	460		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Vinyl chloride	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Methylene Chloride	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Carbon disulfide	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Bromoform	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Dichlorobromomethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,1-Dichloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,1-Dichloroethene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Trichlorofluoromethane	460	U	460		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Dichlorodifluoromethane	460	U	460		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	930	U	930		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,2-Dichloropropane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
2-Butanone (MEK)	930	U	930		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,1,2-Trichloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Trichloroethene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Methyl acetate	460	U	460		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,1,2,2-Tetrachloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,2,3-Trichlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Hexachlorobutadiene	230	U *1	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Naphthalene	310	U	310		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
o-Xylene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
2-Chlorotoluene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,2-Dichlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,2,4-Trimethylbenzene	230	U *1	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,2-Dibromo-3-Chloropropane	460	U	460		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1

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

Client Sample ID: PS Soil-FD_2'_07182024
Date Collected: 07/18/24 00:00
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194228-11
Matrix: Solid
Percent Solids: 85.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Ethyl methacrylate	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
tert-Butylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Isopropylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
4-Isopropyltoluene	230	U *1	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Xylenes, Total	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,2-Dichloroethene, Total	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
1,3-Dichloropropene, Total	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Trihalomethanes, Total	460	U	460		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1
Total BTEX	230	U	230		ug/Kg	☼	07/19/24 21:47	07/31/24 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*58 - 140*	*07/19/24 21:47*	*07/31/24 20:41*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 121*	*07/19/24 21:47*	*07/31/24 20:41*	*1*
Toluene-d8 (Surr)	*104*		*80 - 126*	*07/19/24 21:47*	*07/31/24 20:41*	*1*
4-Bromofluorobenzene (Surr)	*105*		*76 - 127*	*07/19/24 21:47*	*07/31/24 20:41*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Client Sample ID: PS Sample_01-1'_07182024
Date Collected: 07/18/24 07:10
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194228-1
Matrix: Solid
Percent Solids: 85.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	4100	U	4100		ug/Kg	☼	07/19/24 21:47	07/30/24 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*58 - 140*	*07/19/24 21:47*	*07/30/24 22:44*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 121*	*07/19/24 21:47*	*07/30/24 22:44*	*1*
Toluene-d8 (Surr)	*104*		*80 - 126*	*07/19/24 21:47*	*07/30/24 22:44*	*1*
4-Bromofluorobenzene (Surr)	*107*		*76 - 127*	*07/19/24 21:47*	*07/30/24 22:44*	*1*

General Chemistry

Client Sample ID: PS Sample_01-1'_07182024
Date Collected: 07/18/24 07:10
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194228-1
Matrix: Solid
Percent Solids: 85.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.6		0.1		%			07/23/24 15:13	1
Percent Solids (EPA Moisture)	85.4		0.1		%			07/23/24 15:13	1

Client Sample ID: PS Sample_01-2'_07182024
Date Collected: 07/18/24 07:15
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194228-2
Matrix: Solid
Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.3		0.1		%			07/23/24 15:13	1
Percent Solids (EPA Moisture)	85.7		0.1		%			07/23/24 15:13	1

General Chemistry

Client Sample ID: PS Sample_02-1'_07182024
Date Collected: 07/18/24 07:30
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194228-3
Matrix: Solid
Percent Solids: 87.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.7		0.1		%			07/23/24 15:13	1
Percent Solids (EPA Moisture)	87.3		0.1		%			07/23/24 15:13	1

Client Sample ID: PS Sample_02-2'_07182024
Date Collected: 07/18/24 07:35
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194228-4
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.2		0.1		%			07/23/24 15:13	1
Percent Solids (EPA Moisture)	84.8		0.1		%			07/23/24 15:13	1

Client Sample ID: PS Sample_03-1'_07182024
Date Collected: 07/18/24 07:40
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194228-5
Matrix: Solid
Percent Solids: 83.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.2		0.1		%			07/23/24 15:13	1
Percent Solids (EPA Moisture)	83.8		0.1		%			07/23/24 15:13	1

Client Sample ID: PS Sample_03-2'_07182024
Date Collected: 07/18/24 07:45
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194228-6
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.3		0.1		%			07/23/24 15:13	1
Percent Solids (EPA Moisture)	84.7		0.1		%			07/23/24 15:13	1

Client Sample ID: PS Sample_04-1'_07182024
Date Collected: 07/18/24 08:05
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194228-7
Matrix: Solid
Percent Solids: 87.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.7		0.1		%			07/23/24 15:13	1
Percent Solids (EPA Moisture)	87.3		0.1		%			07/23/24 15:13	1

Client Sample ID: PS Sample_04-2'_07182024
Date Collected: 07/18/24 08:10
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194228-8
Matrix: Solid
Percent Solids: 87.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.9		0.1		%			07/23/24 16:17	1
Percent Solids (EPA Moisture)	87.1		0.1		%			07/23/24 16:17	1

Client Sample ID: PS Sample_05-1'_07182024
Date Collected: 07/18/24 08:40
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194228-9
Matrix: Solid
Percent Solids: 88.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.7		0.1		%			07/23/24 16:17	1
Percent Solids (EPA Moisture)	88.3		0.1		%			07/23/24 16:17	1

Client Sample ID: PS Sample_05-2'_07182024
Date Collected: 07/18/24 08:45
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194228-10
Matrix: Solid
Percent Solids: 81.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.4		0.1		%			07/23/24 16:17	1
Percent Solids (EPA Moisture)	81.6		0.1		%			07/23/24 16:17	1

Client: EA Engineering, Science, and Technology
Job ID: 280-194228-1
Project/Site: ABC Cleaners, NC

General Chemistry

Client Sample ID: PS Soil-FD_2'_07182024
Lab Sample ID: 280-194228-11
Date Collected: 07/18/24 00:00
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 85.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.2**		0.1		%			**07/23/24 16:17**	1
Percent Solids (EPA Moisture)	**85.8**		0.1		%			07/23/24 16:17	1

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-194228-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(58-140)	(75-121)	(80-126)	(76-127)
280-194228-1 - DL	PS Sample_01-1'_07182024	101	96	104	107
280-194228-1	PS Sample_01-1'_07182024	106	99	98	103
280-194228-2	PS Sample_01-2'_07182024	107	99	100	104
280-194228-3	PS Sample_02-1'_07182024	107	99	102	104
280-194228-4	PS Sample_02-2'_07182024	110	100	99	108
280-194228-5	PS Sample_03-1'_07182024	113	99	102	108
280-194228-6	PS Sample_03-2'_07182024	104	96	104	107
280-194228-7	PS Sample_04-1'_07182024	106	98	102	109
280-194228-8	PS Sample_04-2'_07182024	109	97	104	109
280-194228-9	PS Sample_05-1'_07182024	103	95	105	107
280-194228-10	PS Sample_05-2'_07182024	102	92	104	107
280-194228-11	PS Soil-FD_2'_07182024	103	93	104	105
LCS 280-661159/3-A	Lab Control Sample	104	98	104	105
LCS 280-661159/5-A	Lab Control Sample	102	99	98	100
LCS 280-661162/2-A	Lab Control Sample	101	96	102	101
LCSD 280-661159/4-A	Lab Control Sample Dup	104	97	101	106
LCSD 280-661159/6-A	Lab Control Sample Dup	99	102	98	97
LCSD 280-661162/3-A	Lab Control Sample Dup	102	97	102	104
MB 280-661159/1-A	Method Blank	107	99	102	108
MB 280-661159/2-A	Method Blank	103	99	99	103
MB 280-661162/1-A	Method Blank	102	97	106	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-661159/1-A
Matrix: Solid
Analysis Batch: 662440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661159

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Styrene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
N-Propylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
n-Butylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
4-Chlorotoluene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Ethylene Dibromide	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
3-Chloro-1-propene	10	U	10		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Vinyl acetate	10	U	10		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,3,5-Trimethylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Bromobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Methylcyclohexane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Toluene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Chlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Tetrahydrofuran	20	U	20		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Hexane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Cyclohexane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Chlorodibromomethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Tetrachloroethene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
sec-Butylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,3-Dichloropropane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
cis-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
trans-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Methyl tert-butyl ether	20	U	20		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
m-Xylene & p-Xylene	2.5	U	2.5		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Carbon tetrachloride	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,1-Dichloropropene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
2-Hexanone	20	U	20		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
2,2-Dichloropropane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Ethyl ether	10	U	10		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,1,1,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Acetone	80	U	80		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Chloroform	10	U	10		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Benzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Bromomethane	10	U	10		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Chloromethane	10	U	10		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Iodomethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Dibromomethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Chlorobromomethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Chloroethane	10	U	10		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Vinyl chloride	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1

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

Lab Sample ID: MB 280-661159/1-A
Matrix: Solid
Analysis Batch: 662440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661159

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Carbon disulfide	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Bromoform	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Dichlorobromomethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,1-Dichloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Trichlorofluoromethane	10	U	10		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Dichlorodifluoromethane	10	U	10		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
2-Butanone (MEK)	20	U	20		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Trichloroethene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Methyl acetate	10	U	10		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,2,3-Trichlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Hexachlorobutadiene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Naphthalene	6.6	U	6.6		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
o-Xylene	2.5	U	2.5		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
2-Chlorotoluene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,2,4-Trimethylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,2,3-Trichloropropane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Ethyl methacrylate	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
tert-Butylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Isopropylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
4-Isopropyltoluene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Xylenes, Total	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,2-Dichloroethene, Total	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
1,3-Dichloropropene, Total	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Trihalomethanes, Total	10	U	10		ug/Kg		07/19/24 19:46	07/31/24 12:48	1
Total BTEX	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/31/24 12:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*58 - 140*	*07/19/24 19:46*	*07/31/24 12:48*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*	*07/19/24 19:46*	*07/31/24 12:48*	*1*
Toluene-d8 (Surr)	*102*		*80 - 126*	*07/19/24 19:46*	*07/31/24 12:48*	*1*
4-Bromofluorobenzene (Surr)	*108*		*76 - 127*	*07/19/24 19:46*	*07/31/24 12:48*	*1*

Lab Sample ID: MB 280-661159/2-A
Matrix: Solid
Analysis Batch: 662399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661159

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Styrene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1

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

Lab Sample ID: MB 280-661159/2-A
Matrix: Solid
Analysis Batch: 662399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661159

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
N-Propylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
n-Butylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
4-Chlorotoluene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Ethylene Dibromide	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
3-Chloro-1-propene	10	U	10		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Vinyl acetate	10	U	10		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,3,5-Trimethylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Bromobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Methylcyclohexane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Toluene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Chlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Tetrahydrofuran	20	U	20		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Hexane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Cyclohexane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Chlorodibromomethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Tetrachloroethene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
sec-Butylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,3-Dichloropropane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
cis-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
trans-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Methyl tert-butyl ether	20	U	20		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
m-Xylene & p-Xylene	2.5	U	2.5		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Carbon tetrachloride	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,1-Dichloropropene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
2-Hexanone	20	U	20		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
2,2-Dichloropropane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Ethyl ether	10	U	10		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,1,1,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Acetone	80	U	80		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Chloroform	10	U	10		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Benzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Bromomethane	10	U	10		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Chloromethane	10	U	10		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Iodomethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Dibromomethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Chlorobromomethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Chloroethane	10	U	10		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Vinyl chloride	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Methylene Chloride	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Carbon disulfide	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Bromoform	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Dichlorobromomethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1

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

Lab Sample ID: MB 280-661159/2-A
Matrix: Solid
Analysis Batch: 662399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661159

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Trichlorofluoromethane	10	U	10		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Dichlorodifluoromethane	10	U	10		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
2-Butanone (MEK)	20	U	20		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Trichloroethene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Methyl acetate	10	U	10		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,2,3-Trichlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Hexachlorobutadiene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Naphthalene	6.6	U	6.6		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
o-Xylene	2.5	U	2.5		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
2-Chlorotoluene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,2,4-Trimethylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,2,3-Trichloropropane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Ethyl methacrylate	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
tert-Butylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Isopropylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
4-Isopropyltoluene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Xylenes, Total	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,2-Dichloroethene, Total	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
1,3-Dichloropropene, Total	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Trihalomethanes, Total	10	U	10		ug/Kg		07/19/24 19:46	07/29/24 16:00	1
Total BTEX	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/29/24 16:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*58 - 140*	*07/19/24 19:46*	*07/29/24 16:00*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*	*07/19/24 19:46*	*07/29/24 16:00*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*07/19/24 19:46*	*07/29/24 16:00*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*07/19/24 19:46*	*07/29/24 16:00*	*1*

Lab Sample ID: LCS 280-661159/3-A
Matrix: Solid
Analysis Batch: 662440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	46.6		ug/Kg		93	73 - 125
Styrene	50.0	49.9		ug/Kg		100	76 - 135
cis-1,3-Dichloropropene	50.0	47.7		ug/Kg		95	71 - 135
trans-1,3-Dichloropropene	50.0	46.4		ug/Kg		93	71 - 135
N-Propylbenzene	50.0	53.1		ug/Kg		106	67 - 135
n-Butylbenzene	50.0	51.7		ug/Kg		103	68 - 135
4-Chlorotoluene	50.0	49.2		ug/Kg		98	68 - 135

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

Lab Sample ID: LCS 280-661159/3-A
Matrix: Solid
Analysis Batch: 662440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	50.0	51.0		ug/Kg		102	73 - 135
Ethylene Dibromide	50.0	46.6		ug/Kg		93	76 - 135
3-Chloro-1-propene	50.0	49.0		ug/Kg		98	50 - 150
1,2-Dichloroethane	50.0	44.8		ug/Kg		90	69 - 135
Vinyl acetate	100	96.9		ug/Kg		97	54 - 165
4-Methyl-2-pentanone (MIBK)	200	183		ug/Kg		91	69 - 150
1,3,5-Trimethylbenzene	50.0	50.7		ug/Kg		101	65 - 135
Bromobenzene	50.0	48.1		ug/Kg		96	72 - 135
Methylcyclohexane	50.0	51.5		ug/Kg		103	50 - 150
Toluene	50.0	42.7		ug/Kg		85	77 - 122
Chlorobenzene	50.0	46.3		ug/Kg		93	78 - 135
Tetrahydrofuran	100	96.3		ug/Kg		96	50 - 150
Hexane	50.0	49.8		ug/Kg		100	50 - 150
Cyclohexane	50.0	52.3		ug/Kg		105	50 - 150
1,2,4-Trichlorobenzene	50.0	55.9		ug/Kg		112	65 - 135
Chlorodibromomethane	50.0	48.2		ug/Kg		96	77 - 135
Tetrachloroethene	50.0	46.6		ug/Kg		93	76 - 135
sec-Butylbenzene	50.0	54.0		ug/Kg		108	69 - 135
1,3-Dichloropropane	50.0	47.5		ug/Kg		95	74 - 135
cis-1,2-Dichloroethene	50.0	43.9		ug/Kg		88	76 - 135
trans-1,2-Dichloroethene	50.0	45.5		ug/Kg		91	77 - 135
Methyl tert-butyl ether	50.0	45.9		ug/Kg		92	71 - 141
m-Xylene & p-Xylene	50.0	49.9		ug/Kg		100	77 - 135
1,3-Dichlorobenzene	50.0	50.0		ug/Kg		100	69 - 135
Carbon tetrachloride	50.0	46.6		ug/Kg		93	69 - 138
1,1-Dichloropropene	50.0	44.6		ug/Kg		89	72 - 135
2-Hexanone	200	189		ug/Kg		94	67 - 150
2,2-Dichloropropane	50.0	47.8		ug/Kg		96	69 - 135
Ethyl ether	50.0	48.8		ug/Kg		98	50 - 150
1,1,1,2-Tetrachloroethane	50.0	48.3		ug/Kg		97	76 - 135
Acetone	200	189		ug/Kg		95	65 - 150
Chloroform	50.0	46.6		ug/Kg		93	73 - 123
Benzene	50.0	48.1		ug/Kg		96	75 - 135
1,1,1-Trichloroethane	50.0	48.0		ug/Kg		96	70 - 135
Bromomethane	50.0	56.6		ug/Kg		113	52 - 135
Chloromethane	50.0	46.9		ug/Kg		94	41 - 138
Iodomethane	50.0	47.3		ug/Kg		95	74 - 142
Dibromomethane	50.0	44.7		ug/Kg		89	73 - 135
Chlorobromomethane	50.0	46.3		ug/Kg		93	74 - 135
Chloroethane	50.0	46.7		ug/Kg		93	51 - 145
Vinyl chloride	50.0	45.8		ug/Kg		92	43 - 145
Methylene Chloride	50.0	48.3		ug/Kg		97	76 - 136
Carbon disulfide	50.0	48.6		ug/Kg		97	45 - 150
Bromoform	50.0	45.2		ug/Kg		90	77 - 135
Dichlorobromomethane	50.0	45.9		ug/Kg		92	73 - 135
1,1-Dichloroethane	50.0	47.5		ug/Kg		95	70 - 135
1,1-Dichloroethene	50.0	46.6		ug/Kg		93	79 - 135
Trichlorofluoromethane	50.0	43.4		ug/Kg		87	48 - 150
Dichlorodifluoromethane	50.0	40.4		ug/Kg		81	32 - 152

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

Lab Sample ID: LCS 280-661159/3-A
Matrix: Solid
Analysis Batch: 662440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.8		ug/Kg		94	50 - 150
1,2-Dichloropropane	50.0	46.3		ug/Kg		93	72 - 121
2-Butanone (MEK)	200	190		ug/Kg		95	45 - 177
1,1,2-Trichloroethane	50.0	46.0		ug/Kg		92	78 - 135
Trichloroethene	50.0	47.4		ug/Kg		95	77 - 135
Methyl acetate	100	92.5		ug/Kg		92	50 - 150
1,1,2,2-Tetrachloroethane	50.0	53.7		ug/Kg		107	65 - 135
1,2,3-Trichlorobenzene	50.0	51.6		ug/Kg		103	62 - 135
Hexachlorobutadiene	50.0	46.0		ug/Kg		92	52 - 151
Naphthalene	50.0	47.6		ug/Kg		95	65 - 135
o-Xylene	50.0	51.4		ug/Kg		103	75 - 135
2-Chlorotoluene	50.0	54.2		ug/Kg		108	67 - 135
1,2-Dichlorobenzene	50.0	46.9		ug/Kg		94	73 - 135
1,2,4-Trimethylbenzene	50.0	50.2		ug/Kg		100	67 - 135
1,2-Dibromo-3-Chloropropane	50.0	43.9		ug/Kg		88	66 - 150
1,2,3-Trichloropropane	50.0	50.7		ug/Kg		101	65 - 135
Ethyl methacrylate	50.0	48.4		ug/Kg		97	50 - 150
tert-Butylbenzene	50.0	53.0		ug/Kg		106	66 - 135
Isopropylbenzene	50.0	50.2		ug/Kg		100	74 - 137
4-Isopropyltoluene	50.0	50.1		ug/Kg		100	66 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*
Dibromofluoromethane (Surr)	*98*		*75 - 121*
Toluene-d8 (Surr)	*104*		*80 - 126*
4-Bromofluorobenzene (Surr)	*105*		*76 - 127*

Lab Sample ID: LCS 280-661159/5-A
Matrix: Solid
Analysis Batch: 662399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	43.2		ug/Kg		86	73 - 125
Styrene	50.0	47.2		ug/Kg		94	76 - 135
cis-1,3-Dichloropropene	50.0	46.5		ug/Kg		93	71 - 135
trans-1,3-Dichloropropene	50.0	51.4		ug/Kg		103	71 - 135
N-Propylbenzene	50.0	49.0		ug/Kg		98	67 - 135
n-Butylbenzene	50.0	45.7		ug/Kg		91	68 - 135
4-Chlorotoluene	50.0	46.2		ug/Kg		92	68 - 135
1,4-Dichlorobenzene	50.0	48.3		ug/Kg		97	73 - 135
Ethylene Dibromide	50.0	48.0		ug/Kg		96	76 - 135
3-Chloro-1-propene	50.0	41.0		ug/Kg		82	50 - 150
1,2-Dichloroethane	50.0	46.0		ug/Kg		92	69 - 135
Vinyl acetate	100	100		ug/Kg		100	54 - 165
4-Methyl-2-pentanone (MIBK)	200	199		ug/Kg		99	69 - 150
1,3,5-Trimethylbenzene	50.0	45.3		ug/Kg		91	65 - 135
Bromobenzene	50.0	47.2		ug/Kg		94	72 - 135
Methylcyclohexane	50.0	45.2		ug/Kg		90	50 - 150

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

Lab Sample ID: LCS 280-661159/5-A
Matrix: Solid
Analysis Batch: 662399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	50.0	43.9		ug/Kg		88	77 - 122
Chlorobenzene	50.0	44.7		ug/Kg		89	78 - 135
Tetrahydrofuran	100	99.9		ug/Kg		100	50 - 150
Hexane	50.0	43.2		ug/Kg		86	50 - 150
Cyclohexane	50.0	45.6		ug/Kg		91	50 - 150
1,2,4-Trichlorobenzene	50.0	50.9		ug/Kg		102	65 - 135
Chlorodibromomethane	50.0	48.9		ug/Kg		98	77 - 135
Tetrachloroethene	50.0	45.6		ug/Kg		91	76 - 135
sec-Butylbenzene	50.0	49.2		ug/Kg		98	69 - 135
1,3-Dichloropropane	50.0	47.3		ug/Kg		95	74 - 135
cis-1,2-Dichloroethene	50.0	43.4		ug/Kg		87	76 - 135
trans-1,2-Dichloroethene	50.0	42.1		ug/Kg		84	77 - 135
Methyl tert-butyl ether	50.0	45.4		ug/Kg		91	71 - 141
m-Xylene & p-Xylene	50.0	46.6		ug/Kg		93	77 - 135
1,3-Dichlorobenzene	50.0	48.0		ug/Kg		96	69 - 135
Carbon tetrachloride	50.0	45.0		ug/Kg		90	69 - 138
1,1-Dichloropropene	50.0	45.1		ug/Kg		90	72 - 135
2-Hexanone	200	197		ug/Kg		98	67 - 150
2,2-Dichloropropane	50.0	40.9		ug/Kg		82	69 - 135
Ethyl ether	50.0	47.9		ug/Kg		96	50 - 150
1,1,1,2-Tetrachloroethane	50.0	47.5		ug/Kg		95	76 - 135
Acetone	200	181		ug/Kg		90	65 - 150
Chloroform	50.0	45.6		ug/Kg		91	73 - 123
Benzene	50.0	48.1		ug/Kg		96	75 - 135
1,1,1-Trichloroethane	50.0	45.9		ug/Kg		92	70 - 135
Bromomethane	50.0	43.0		ug/Kg		86	52 - 135
Chloromethane	50.0	44.7		ug/Kg		89	41 - 138
Iodomethane	50.0	45.9		ug/Kg		92	74 - 142
Dibromomethane	50.0	47.8		ug/Kg		96	73 - 135
Chlorobromomethane	50.0	48.8		ug/Kg		98	74 - 135
Chloroethane	50.0	41.5		ug/Kg		83	51 - 145
Vinyl chloride	50.0	43.6		ug/Kg		87	43 - 145
Methylene Chloride	50.0	44.9		ug/Kg		90	76 - 136
Carbon disulfide	50.0	43.4		ug/Kg		87	45 - 150
Bromoform	50.0	48.4		ug/Kg		97	77 - 135
Dichlorobromomethane	50.0	48.9		ug/Kg		98	73 - 135
1,1-Dichloroethane	50.0	44.3		ug/Kg		89	70 - 135
1,1-Dichloroethene	50.0	43.1		ug/Kg		86	79 - 135
Trichlorofluoromethane	50.0	42.9		ug/Kg		86	48 - 150
Dichlorodifluoromethane	50.0	45.3		ug/Kg		91	32 - 152
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	42.2		ug/Kg		84	50 - 150
1,2-Dichloropropane	50.0	46.0		ug/Kg		92	72 - 121
2-Butanone (MEK)	200	203		ug/Kg		101	45 - 177
1,1,2-Trichloroethane	50.0	50.9		ug/Kg		102	78 - 135
Trichloroethene	50.0	43.3		ug/Kg		87	77 - 135
Methyl acetate	100	91.6		ug/Kg		92	50 - 150
1,1,2,2-Tetrachloroethane	50.0	52.1		ug/Kg		104	65 - 135
1,2,3-Trichlorobenzene	50.0	47.3		ug/Kg		95	62 - 135

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

Lab Sample ID: LCS 280-661159/5-A
Matrix: Solid
Analysis Batch: 662399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobutadiene	50.0	44.3		ug/Kg		89	52 - 151
Naphthalene	50.0	45.1		ug/Kg		90	65 - 135
o-Xylene	50.0	47.8		ug/Kg		96	75 - 135
2-Chlorotoluene	50.0	48.8		ug/Kg		98	67 - 135
1,2-Dichlorobenzene	50.0	46.0		ug/Kg		92	73 - 135
1,2,4-Trimethylbenzene	50.0	44.8		ug/Kg		90	67 - 135
1,2-Dibromo-3-Chloropropane	50.0	45.7		ug/Kg		91	66 - 150
1,2,3-Trichloropropane	50.0	51.1		ug/Kg		102	65 - 135
Ethyl methacrylate	50.0	49.4		ug/Kg		99	50 - 150
tert-Butylbenzene	50.0	48.5		ug/Kg		97	66 - 135
Isopropylbenzene	50.0	44.2		ug/Kg		88	74 - 137
4-Isopropyltoluene	50.0	45.8		ug/Kg		92	66 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*58 - 140*
Dibromofluoromethane (Surr)	*99*		*75 - 121*
Toluene-d8 (Surr)	*98*		*80 - 126*
4-Bromofluorobenzene (Surr)	*100*		*76 - 127*

Lab Sample ID: LCSD 280-661159/4-A
Matrix: Solid
Analysis Batch: 662440

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	50.0	43.7		ug/Kg		87	73 - 125	6	20
Styrene	50.0	46.9		ug/Kg		94	76 - 135	6	20
cis-1,3-Dichloropropene	50.0	46.6		ug/Kg		93	71 - 135	2	20
trans-1,3-Dichloropropene	50.0	46.1		ug/Kg		92	71 - 135	0	20
N-Propylbenzene	50.0	51.5		ug/Kg		103	67 - 135	3	22
n-Butylbenzene	50.0	50.0		ug/Kg		100	68 - 135	3	21
4-Chlorotoluene	50.0	48.0		ug/Kg		96	68 - 135	2	20
1,4-Dichlorobenzene	50.0	50.0		ug/Kg		100	73 - 135	2	22
Ethylene Dibromide	50.0	45.7		ug/Kg		91	76 - 135	2	20
3-Chloro-1-propene	50.0	44.7		ug/Kg		89	50 - 150	9	30
1,2-Dichloroethane	50.0	44.0		ug/Kg		88	69 - 135	2	20
Vinyl acetate	100	94.7		ug/Kg		95	54 - 165	2	27
4-Methyl-2-pentanone (MIBK)	200	184		ug/Kg		92	69 - 150	1	25
1,3,5-Trimethylbenzene	50.0	48.3		ug/Kg		97	65 - 135	5	21
Bromobenzene	50.0	47.7		ug/Kg		95	72 - 135	1	22
Methylcyclohexane	50.0	47.7		ug/Kg		95	50 - 150	8	30
Toluene	50.0	41.2		ug/Kg		82	77 - 122	4	20
Chlorobenzene	50.0	44.1		ug/Kg		88	78 - 135	5	20
Tetrahydrofuran	100	98.0		ug/Kg		98	50 - 150	2	30
Hexane	50.0	46.7		ug/Kg		93	50 - 150	7	35
Cyclohexane	50.0	48.3		ug/Kg		97	50 - 150	8	30
1,2,4-Trichlorobenzene	50.0	52.8		ug/Kg		106	65 - 135	6	26
Chlorodibromomethane	50.0	46.5		ug/Kg		93	77 - 135	4	20
Tetrachloroethene	50.0	44.1		ug/Kg		88	76 - 135	6	20

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

Lab Sample ID: LCSD 280-661159/4-A
Matrix: Solid
Analysis Batch: 662440

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	50.0	51.6		ug/Kg		103	69 - 135	4	22
1,3-Dichloropropane	50.0	45.9		ug/Kg		92	74 - 135	3	20
cis-1,2-Dichloroethene	50.0	41.5		ug/Kg		83	76 - 135	6	20
trans-1,2-Dichloroethene	50.0	41.2		ug/Kg		82	77 - 135	10	20
Methyl tert-butyl ether	50.0	43.9		ug/Kg		88	71 - 141	5	20
m-Xylene & p-Xylene	50.0	45.9		ug/Kg		92	77 - 135	8	20
1,3-Dichlorobenzene	50.0	48.6		ug/Kg		97	69 - 135	3	20
Carbon tetrachloride	50.0	43.4		ug/Kg		87	69 - 138	7	20
1,1-Dichloropropene	50.0	43.5		ug/Kg		87	72 - 135	3	20
2-Hexanone	200	192		ug/Kg		96	67 - 150	2	29
2,2-Dichloropropane	50.0	41.6		ug/Kg		83	69 - 135	14	20
Ethyl ether	50.0	48.3		ug/Kg		97	50 - 150	1	20
1,1,1,2-Tetrachloroethane	50.0	46.4		ug/Kg		93	76 - 135	4	20
Acetone	200	183		ug/Kg		91	65 - 150	3	28
Chloroform	50.0	44.1		ug/Kg		88	73 - 123	6	20
Benzene	50.0	46.5		ug/Kg		93	75 - 135	3	20
1,1,1-Trichloroethane	50.0	45.4		ug/Kg		91	70 - 135	6	20
Bromomethane	50.0	47.0		ug/Kg		94	52 - 135	18	22
Chloromethane	50.0	41.6		ug/Kg		83	41 - 138	12	25
Iodomethane	50.0	43.7		ug/Kg		87	74 - 142	8	25
Dibromomethane	50.0	43.0		ug/Kg		86	73 - 135	4	20
Chlorobromomethane	50.0	44.1		ug/Kg		88	74 - 135	5	21
Chloroethane	50.0	41.7		ug/Kg		83	51 - 145	12	22
Vinyl chloride	50.0	41.0		ug/Kg		82	43 - 145	11	24
Methylene Chloride	50.0	44.5		ug/Kg		89	76 - 136	8	21
Carbon disulfide	50.0	43.9		ug/Kg		88	45 - 150	10	24
Bromoform	50.0	44.3		ug/Kg		89	77 - 135	2	20
Dichlorobromomethane	50.0	45.5		ug/Kg		91	73 - 135	1	20
1,1-Dichloroethane	50.0	45.0		ug/Kg		90	70 - 135	5	20
1,1-Dichloroethene	50.0	42.3		ug/Kg		85	79 - 135	10	20
Trichlorofluoromethane	50.0	38.1		ug/Kg		76	48 - 150	13	33
Dichlorodifluoromethane	50.0	38.9		ug/Kg		78	32 - 152	4	28
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	42.7		ug/Kg		85	50 - 150	9	20
1,2-Dichloropropane	50.0	45.4		ug/Kg		91	72 - 121	2	20
2-Butanone (MEK)	200	191		ug/Kg		96	45 - 177	1	32
1,1,2-Trichloroethane	50.0	44.8		ug/Kg		90	78 - 135	3	20
Trichloroethene	50.0	44.5		ug/Kg		89	77 - 135	6	20
Methyl acetate	100	91.8		ug/Kg		92	50 - 150	1	30
1,1,2,2-Tetrachloroethane	50.0	52.8		ug/Kg		106	65 - 135	2	21
1,2,3-Trichlorobenzene	50.0	50.0		ug/Kg		100	62 - 135	3	31
Hexachlorobutadiene	50.0	48.3		ug/Kg		97	52 - 151	5	25
Naphthalene	50.0	46.6		ug/Kg		93	65 - 135	2	36
o-Xylene	50.0	47.8		ug/Kg		96	75 - 135	7	20
2-Chlorotoluene	50.0	51.6		ug/Kg		103	67 - 135	5	22
1,2-Dichlorobenzene	50.0	46.5		ug/Kg		93	73 - 135	1	20
1,2,4-Trimethylbenzene	50.0	47.5		ug/Kg		95	67 - 135	6	20
1,2-Dibromo-3-Chloropropane	50.0	42.2		ug/Kg		84	66 - 150	4	26
1,2,3-Trichloropropane	50.0	48.8		ug/Kg		98	65 - 135	4	21

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

Lab Sample ID: LCSD 280-661159/4-A
Matrix: Solid
Analysis Batch: 662440

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethyl methacrylate	50.0	47.5		ug/Kg		95	50 - 150	2	30
tert-Butylbenzene	50.0	50.7		ug/Kg		101	66 - 135	4	22
Isopropylbenzene	50.0	47.2		ug/Kg		94	74 - 137	6	20
4-Isopropyltoluene	50.0	48.5		ug/Kg		97	66 - 135	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*
Dibromofluoromethane (Surr)	*97*		*75 - 121*
Toluene-d8 (Surr)	*101*		*80 - 126*
4-Bromofluorobenzene (Surr)	*106*		*76 - 127*

Lab Sample ID: LCSD 280-661159/6-A
Matrix: Solid
Analysis Batch: 662399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	50.0	42.3		ug/Kg		85	73 - 125	2	20
Styrene	50.0	45.7		ug/Kg		91	76 - 135	3	20
cis-1,3-Dichloropropene	50.0	45.0		ug/Kg		90	71 - 135	3	20
trans-1,3-Dichloropropene	50.0	47.4		ug/Kg		95	71 - 135	8	20
N-Propylbenzene	50.0	48.6		ug/Kg		97	67 - 135	1	22
n-Butylbenzene	50.0	45.9		ug/Kg		92	68 - 135	0	21
4-Chlorotoluene	50.0	45.0		ug/Kg		90	68 - 135	3	20
1,4-Dichlorobenzene	50.0	46.7		ug/Kg		93	73 - 135	3	22
Ethylene Dibromide	50.0	45.5		ug/Kg		91	76 - 135	6	20
3-Chloro-1-propene	50.0	43.3		ug/Kg		87	50 - 150	5	30
1,2-Dichloroethane	50.0	43.9		ug/Kg		88	69 - 135	5	20
Vinyl acetate	100	86.6		ug/Kg		87	54 - 165	14	27
4-Methyl-2-pentanone (MIBK)	200	175		ug/Kg		87	69 - 150	13	25
1,3,5-Trimethylbenzene	50.0	45.7		ug/Kg		91	65 - 135	1	21
Bromobenzene	50.0	44.2		ug/Kg		88	72 - 135	7	22
Methylcyclohexane	50.0	47.3		ug/Kg		95	50 - 150	5	30
Toluene	50.0	42.9		ug/Kg		86	77 - 122	2	20
Chlorobenzene	50.0	44.1		ug/Kg		88	78 - 135	1	20
Tetrahydrofuran	100	90.8		ug/Kg		91	50 - 150	10	30
Hexane	50.0	43.0		ug/Kg		86	50 - 150	0	35
Cyclohexane	50.0	48.4		ug/Kg		97	50 - 150	6	30
1,2,4-Trichlorobenzene	50.0	51.8		ug/Kg		104	65 - 135	2	26
Chlorodibromomethane	50.0	47.7		ug/Kg		95	77 - 135	3	20
Tetrachloroethene	50.0	45.9		ug/Kg		92	76 - 135	1	20
sec-Butylbenzene	50.0	49.8		ug/Kg		100	69 - 135	1	22
1,3-Dichloropropane	50.0	43.2		ug/Kg		86	74 - 135	9	20
cis-1,2-Dichloroethene	50.0	44.6		ug/Kg		89	76 - 135	3	20
trans-1,2-Dichloroethene	50.0	44.5		ug/Kg		89	77 - 135	5	20
Methyl tert-butyl ether	50.0	44.2		ug/Kg		88	71 - 141	3	20
m-Xylene & p-Xylene	50.0	45.6		ug/Kg		91	77 - 135	2	20
1,3-Dichlorobenzene	50.0	46.4		ug/Kg		93	69 - 135	3	20
Carbon tetrachloride	50.0	47.5		ug/Kg		95	69 - 138	5	20

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

Lab Sample ID: LCSD 280-661159/6-A
Matrix: Solid
Analysis Batch: 662399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloropropene	50.0	44.9		ug/Kg		90	72 - 135	0	20
2-Hexanone	200	166		ug/Kg		83	67 - 150	17	29
2,2-Dichloropropane	50.0	44.5		ug/Kg		89	69 - 135	8	20
Ethyl ether	50.0	48.2		ug/Kg		96	50 - 150	1	20
1,1,1,2-Tetrachloroethane	50.0	48.3		ug/Kg		97	76 - 135	2	20
Acetone	200	181		ug/Kg		90	65 - 150	0	28
Chloroform	50.0	46.3		ug/Kg		93	73 - 123	2	20
Benzene	50.0	47.3		ug/Kg		95	75 - 135	2	20
1,1,1-Trichloroethane	50.0	48.0		ug/Kg		96	70 - 135	5	20
Bromomethane	50.0	54.7	*1	ug/Kg		109	52 - 135	24	22
Chloromethane	50.0	50.5		ug/Kg		101	41 - 138	12	25
Iodomethane	50.0	48.9		ug/Kg		98	74 - 142	6	25
Dibromomethane	50.0	45.4		ug/Kg		91	73 - 135	5	20
Chlorobromomethane	50.0	49.2		ug/Kg		98	74 - 135	1	21
Chloroethane	50.0	49.5		ug/Kg		99	51 - 145	18	22
Vinyl chloride	50.0	50.8		ug/Kg		102	43 - 145	15	24
Methylene Chloride	50.0	47.3		ug/Kg		95	76 - 136	5	21
Carbon disulfide	50.0	46.3		ug/Kg		93	45 - 150	6	24
Bromoform	50.0	46.8		ug/Kg		94	77 - 135	3	20
Dichlorobromomethane	50.0	47.8		ug/Kg		96	73 - 135	2	20
1,1-Dichloroethane	50.0	45.3		ug/Kg		91	70 - 135	2	20
1,1-Dichloroethene	50.0	45.5		ug/Kg		91	79 - 135	5	20
Trichlorofluoromethane	50.0	50.8		ug/Kg		102	48 - 150	17	33
Dichlorodifluoromethane	50.0	55.2		ug/Kg		110	32 - 152	20	28
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.4		ug/Kg		95	50 - 150	12	20
1,2-Dichloropropane	50.0	44.4		ug/Kg		89	72 - 121	4	20
2-Butanone (MEK)	200	179		ug/Kg		89	45 - 177	12	32
1,1,2-Trichloroethane	50.0	47.2		ug/Kg		94	78 - 135	7	20
Trichloroethene	50.0	43.9		ug/Kg		88	77 - 135	2	20
Methyl acetate	100	85.1		ug/Kg		85	50 - 150	7	30
1,1,2,2-Tetrachloroethane	50.0	48.2		ug/Kg		96	65 - 135	8	21
1,2,3-Trichlorobenzene	50.0	49.9		ug/Kg		100	62 - 135	5	31
Hexachlorobutadiene	50.0	47.4		ug/Kg		95	52 - 151	7	25
Naphthalene	50.0	46.9		ug/Kg		94	65 - 135	4	30
o-Xylene	50.0	47.6		ug/Kg		95	75 - 135	0	20
2-Chlorotoluene	50.0	50.4		ug/Kg		101	67 - 135	3	22
1,2-Dichlorobenzene	50.0	44.8		ug/Kg		90	73 - 135	3	20
1,2,4-Trimethylbenzene	50.0	45.4		ug/Kg		91	67 - 135	1	20
1,2-Dibromo-3-Chloropropane	50.0	43.2		ug/Kg		86	66 - 150	6	28
1,2,3-Trichloropropane	50.0	48.3		ug/Kg		97	65 - 135	6	21
Ethyl methacrylate	50.0	44.9		ug/Kg		90	50 - 150	10	30
tert-Butylbenzene	50.0	50.2		ug/Kg		100	66 - 135	3	22
Isopropylbenzene	50.0	44.9		ug/Kg		90	74 - 137	2	20
4-Isopropyltoluene	50.0	46.3		ug/Kg		93	66 - 135	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*58 - 140*

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

Lab Sample ID: LCSD 280-661159/6-A
Matrix: Solid
Analysis Batch: 662399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661159

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	*102*		*75 - 121*
Toluene-d8 (Surr)	*98*		*80 - 126*
4-Bromofluorobenzene (Surr)	*97*		*76 - 127*

Lab Sample ID: MB 280-661162/1-A
Matrix: Solid
Analysis Batch: 662300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Styrene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
cis-1,3-Dichloropropene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
trans-1,3-Dichloropropene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
N-Propylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
n-Butylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
4-Chlorotoluene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,4-Dichlorobenzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Ethylene Dibromide	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
3-Chloro-1-propene	500	U	500		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,2-Dichloroethane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Vinyl acetate	500	U	500		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
4-Methyl-2-pentanone (MIBK)	1000	U	1000		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,3,5-Trimethylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Bromobenzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Methylcyclohexane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Toluene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Chlorobenzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Tetrahydrofuran	1000	U	1000		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Hexane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Cyclohexane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,2,4-Trichlorobenzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Chlorodibromomethane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Tetrachloroethene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
sec-Butylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,3-Dichloropropane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
cis-1,2-Dichloroethene	130	U	130		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
trans-1,2-Dichloroethene	130	U	130		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Methyl tert-butyl ether	1000	U	1000		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
m-Xylene & p-Xylene	130	U	130		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,3-Dichlorobenzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Carbon tetrachloride	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,1-Dichloropropene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
2-Hexanone	1000	U	1000		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
2,2-Dichloropropane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Ethyl ether	500	U	500		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,1,1,2-Tetrachloroethane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Acetone	4000	U	4000		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Chloroform	500	U	500		ug/Kg		07/19/24 21:47	07/30/24 19:26	1

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

Lab Sample ID: MB 280-661162/1-A
Matrix: Solid
Analysis Batch: 662300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,1,1-Trichloroethane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Bromomethane	500	U	500		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Chloromethane	500	U	500		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Iodomethane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Dibromomethane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Chlorobromomethane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Chloroethane	500	U	500		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Vinyl chloride	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Methylene Chloride	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Carbon disulfide	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Bromoform	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Dichlorobromomethane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,1-Dichloroethane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,1-Dichloroethene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Trichlorofluoromethane	500	U	500		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Dichlorodifluoromethane	500	U	500		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1000	U	1000		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,2-Dichloropropane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
2-Butanone (MEK)	1000	U	1000		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,1,2-Trichloroethane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Trichloroethene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Methyl acetate	500	U	500		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,1,2,2-Tetrachloroethane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,2,3-Trichlorobenzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Hexachlorobutadiene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Naphthalene	330	U	330		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
o-Xylene	130	U	130		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
2-Chlorotoluene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,2-Dichlorobenzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,2,4-Trimethylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,2-Dibromo-3-Chloropropane	500	U	500		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,2,3-Trichloropropane	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Ethyl methacrylate	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
tert-Butylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Isopropylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
4-Isopropyltoluene	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Xylenes, Total	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,2-Dichloroethene, Total	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
1,3-Dichloropropene, Total	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Trihalomethanes, Total	500	U	500		ug/Kg		07/19/24 21:47	07/30/24 19:26	1
Total BTEX	250	U	250		ug/Kg		07/19/24 21:47	07/30/24 19:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*58 - 140*	*07/19/24 21:47*	*07/30/24 19:26*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*07/19/24 21:47*	*07/30/24 19:26*	*1*
Toluene-d8 (Surr)	*106*		*80 - 126*	*07/19/24 21:47*	*07/30/24 19:26*	*1*
4-Bromofluorobenzene (Surr)	*107*		*76 - 127*	*07/19/24 21:47*	*07/30/24 19:26*	*1*

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

Lab Sample ID: LCS 280-661162/2-A
Matrix: Solid
Analysis Batch: 662300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	2500	2370		ug/Kg		95	73 - 125
Styrene	2500	2540		ug/Kg		101	76 - 135
cis-1,3-Dichloropropene	2500	2530		ug/Kg		101	71 - 135
trans-1,3-Dichloropropene	2500	2480		ug/Kg		99	71 - 135
N-Propylbenzene	2500	2750		ug/Kg		110	67 - 135
n-Butylbenzene	2500	2650		ug/Kg		106	68 - 135
4-Chlorotoluene	2500	2560		ug/Kg		102	68 - 135
1,4-Dichlorobenzene	2500	2680		ug/Kg		107	73 - 135
Ethylene Dibromide	2500	2470		ug/Kg		99	76 - 135
3-Chloro-1-propene	2500	2460		ug/Kg		98	50 - 150
1,2-Dichloroethane	2500	2390		ug/Kg		96	69 - 135
Vinyl acetate	5000	5540		ug/Kg		111	54 - 165
4-Methyl-2-pentanone (MIBK)	10000	9820		ug/Kg		98	69 - 150
1,3,5-Trimethylbenzene	2500	2570		ug/Kg		103	65 - 135
Bromobenzene	2500	2540		ug/Kg		102	72 - 135
Methylcyclohexane	2500	2540		ug/Kg		102	50 - 150
Toluene	2500	2230		ug/Kg		89	77 - 122
Chlorobenzene	2500	2410		ug/Kg		96	78 - 135
Tetrahydrofuran	5000	5390		ug/Kg		108	50 - 150
Hexane	2500	2650		ug/Kg		106	50 - 150
Cyclohexane	2500	2550		ug/Kg		102	50 - 150
1,2,4-Trichlorobenzene	2500	2900		ug/Kg		116	65 - 135
Chlorodibromomethane	2500	2550		ug/Kg		102	77 - 135
Tetrachloroethene	2500	2460		ug/Kg		98	76 - 135
sec-Butylbenzene	2500	2820		ug/Kg		113	69 - 135
1,3-Dichloropropane	2500	2510		ug/Kg		101	74 - 135
cis-1,2-Dichloroethene	2500	2260		ug/Kg		90	76 - 135
trans-1,2-Dichloroethene	2500	2260		ug/Kg		91	77 - 135
Methyl tert-butyl ether	2500	2400		ug/Kg		96	71 - 141
m-Xylene & p-Xylene	2500	2500		ug/Kg		100	77 - 135
1,3-Dichlorobenzene	2500	2630		ug/Kg		105	69 - 135
Carbon tetrachloride	2500	2360		ug/Kg		94	69 - 138
1,1-Dichloropropene	2500	2390		ug/Kg		96	72 - 135
2-Hexanone	10000	10400		ug/Kg		104	67 - 150
2,2-Dichloropropane	2500	2230		ug/Kg		89	69 - 135
Ethyl ether	2500	2620		ug/Kg		105	50 - 150
1,1,1,2-Tetrachloroethane	2500	2600		ug/Kg		104	76 - 135
Acetone	10000	10800		ug/Kg		108	65 - 150
Chloroform	2500	2430		ug/Kg		97	73 - 123
Benzene	2500	2480		ug/Kg		99	75 - 135
1,1,1-Trichloroethane	2500	2430		ug/Kg		97	70 - 135
Bromomethane	2500	5740	*+	ug/Kg		230	52 - 135
Chloromethane	2500	2340		ug/Kg		94	41 - 138
Iodomethane	2500	2420		ug/Kg		97	74 - 142
Dibromomethane	2500	2360		ug/Kg		94	73 - 135
Chlorobromomethane	2500	2400		ug/Kg		96	74 - 135
Chloroethane	2500	3900	*+	ug/Kg		156	51 - 145
Vinyl chloride	2500	2550		ug/Kg		102	43 - 145

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

Lab Sample ID: LCS 280-661162/2-A
Matrix: Solid
Analysis Batch: 662300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	2500	2400		ug/Kg		96	76 - 136
Carbon disulfide	2500	2350		ug/Kg		94	45 - 150
Bromoform	2500	2370		ug/Kg		95	77 - 135
Dichlorobromomethane	2500	2470		ug/Kg		99	73 - 135
1,1-Dichloroethane	2500	2450		ug/Kg		98	70 - 135
1,1-Dichloroethene	2500	2360		ug/Kg		94	79 - 135
Trichlorofluoromethane	2500	2480		ug/Kg		99	48 - 150
Dichlorodifluoromethane	2500	2370		ug/Kg		95	32 - 152
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2360		ug/Kg		94	50 - 150
1,2-Dichloropropane	2500	2370		ug/Kg		95	72 - 121
2-Butanone (MEK)	10000	10800		ug/Kg		108	45 - 177
1,1,2-Trichloroethane	2500	2360		ug/Kg		94	78 - 135
Trichloroethene	2500	2410		ug/Kg		96	77 - 135
Methyl acetate	5000	5180		ug/Kg		104	50 - 150
1,1,2,2-Tetrachloroethane	2500	2840		ug/Kg		114	65 - 135
1,2,3-Trichlorobenzene	2500	2690		ug/Kg		107	62 - 135
Hexachlorobutadiene	2500	2660		ug/Kg		106	52 - 151
Naphthalene	2500	2510		ug/Kg		100	65 - 135
o-Xylene	2500	2650		ug/Kg		106	75 - 135
2-Chlorotoluene	2500	2770		ug/Kg		111	67 - 135
1,2-Dichlorobenzene	2500	2490		ug/Kg		99	73 - 135
1,2,4-Trimethylbenzene	2500	2570		ug/Kg		103	67 - 135
1,2-Dibromo-3-Chloropropane	2500	2400		ug/Kg		96	66 - 150
1,2,3-Trichloropropane	2500	2630		ug/Kg		105	65 - 135
Ethyl methacrylate	2500	2590		ug/Kg		104	50 - 150
tert-Butylbenzene	2500	2750		ug/Kg		110	66 - 135
Isopropylbenzene	2500	2550		ug/Kg		102	74 - 137
4-Isopropyltoluene	2500	2580		ug/Kg		103	66 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*58 - 140*
Dibromofluoromethane (Surr)	*96*		*75 - 121*
Toluene-d8 (Surr)	*102*		*80 - 126*
4-Bromofluorobenzene (Surr)	*101*		*76 - 127*

Lab Sample ID: LCSD 280-661162/3-A
Matrix: Solid
Analysis Batch: 662300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661162

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	2500	2040		ug/Kg		82	73 - 125	15	20
Styrene	2500	2230		ug/Kg		89	76 - 135	13	20
cis-1,3-Dichloropropene	2500	2350		ug/Kg		94	71 - 135	7	20
trans-1,3-Dichloropropene	2500	2390		ug/Kg		96	71 - 135	3	20
N-Propylbenzene	2500	2170	*1	ug/Kg		87	67 - 135	24	22
n-Butylbenzene	2500	1930	*1	ug/Kg		77	68 - 135	32	21
4-Chlorotoluene	2500	2100		ug/Kg		84	68 - 135	20	20
1,4-Dichlorobenzene	2500	2200		ug/Kg		88	73 - 135	20	22

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

Lab Sample ID: LCSD 280-661162/3-A
Matrix: Solid
Analysis Batch: 662300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661162

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide	2500	2420		ug/Kg		97	76 - 135	2	20
3-Chloro-1-propene	2500	2340		ug/Kg		94	50 - 150	5	30
1,2-Dichloroethane	2500	2340		ug/Kg		94	69 - 135	2	20
Vinyl acetate	5000	4410		ug/Kg		88	54 - 165	23	27
4-Methyl-2-pentanone (MIBK)	10000	10200		ug/Kg		102	69 - 150	3	25
1,3,5-Trimethylbenzene	2500	2090		ug/Kg		84	65 - 135	20	21
Bromobenzene	2500	2270		ug/Kg		91	72 - 135	11	22
Methylcyclohexane	2500	2380		ug/Kg		95	50 - 150	6	30
Toluene	2500	2050		ug/Kg		82	77 - 122	9	20
Chlorobenzene	2500	2160		ug/Kg		86	78 - 135	11	20
Tetrahydrofuran	5000	5520		ug/Kg		110	50 - 150	2	30
Hexane	2500	2440		ug/Kg		98	50 - 150	8	35
Cyclohexane	2500	2390		ug/Kg		96	50 - 150	7	30
1,2,4-Trichlorobenzene	2500	2360		ug/Kg		94	65 - 135	21	26
Chlorodibromomethane	2500	2370		ug/Kg		95	77 - 135	7	20
Tetrachloroethene	2500	2180		ug/Kg		87	76 - 135	12	20
sec-Butylbenzene	2500	2200	*1	ug/Kg		88	69 - 135	24	22
1,3-Dichloropropane	2500	2410		ug/Kg		96	74 - 135	4	20
cis-1,2-Dichloroethene	2500	2200		ug/Kg		88	76 - 135	3	20
trans-1,2-Dichloroethene	2500	2160		ug/Kg		86	77 - 135	5	20
Methyl tert-butyl ether	2500	2400		ug/Kg		96	71 - 141	0	20
m-Xylene & p-Xylene	2500	2120		ug/Kg		85	77 - 135	17	20
1,3-Dichlorobenzene	2500	2160		ug/Kg		86	69 - 135	20	20
Carbon tetrachloride	2500	2120		ug/Kg		85	69 - 138	11	20
1,1-Dichloropropene	2500	2230		ug/Kg		89	72 - 135	7	20
2-Hexanone	10000	10700		ug/Kg		107	67 - 150	4	29
2,2-Dichloropropane	2500	2120		ug/Kg		85	69 - 135	5	20
Ethyl ether	2500	2710		ug/Kg		108	50 - 150	3	20
1,1,1,2-Tetrachloroethane	2500	2350		ug/Kg		94	76 - 135	10	20
Acetone	10000	11200		ug/Kg		112	65 - 150	4	28
Chloroform	2500	2330		ug/Kg		93	73 - 123	4	20
Benzene	2500	2390		ug/Kg		96	75 - 135	4	20
1,1,1-Trichloroethane	2500	2300		ug/Kg		92	70 - 135	5	20
Bromomethane	2500	4030	*+ *1	ug/Kg		161	52 - 135	35	22
Chloromethane	2500	2390		ug/Kg		96	41 - 138	2	25
Iodomethane	2500	2370		ug/Kg		95	74 - 142	2	25
Dibromomethane	2500	2310		ug/Kg		92	73 - 135	2	20
Chlorobromomethane	2500	2410		ug/Kg		97	74 - 135	1	21
Chloroethane	2500	3080	*1	ug/Kg		123	51 - 145	24	22
Vinyl chloride	2500	2370		ug/Kg		95	43 - 145	7	24
Methylene Chloride	2500	2420		ug/Kg		97	76 - 136	1	21
Carbon disulfide	2500	2230		ug/Kg		89	45 - 150	5	24
Bromoform	2500	2230		ug/Kg		89	77 - 135	6	20
Dichlorobromomethane	2500	2330		ug/Kg		93	73 - 135	6	20
1,1-Dichloroethane	2500	2360		ug/Kg		95	70 - 135	4	20
1,1-Dichloroethene	2500	2230		ug/Kg		89	79 - 135	6	20
Trichlorofluoromethane	2500	2390		ug/Kg		96	48 - 150	4	33
Dichlorodifluoromethane	2500	2440		ug/Kg		98	32 - 152	3	28

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

Lab Sample ID: LCSD 280-661162/3-A
Matrix: Solid
Analysis Batch: 662300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661162

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2240		ug/Kg		89	50 - 150	5	20
1,2-Dichloropropane	2500	2300		ug/Kg		92	72 - 121	3	20
2-Butanone (MEK)	10000	11000		ug/Kg		110	45 - 177	2	32
1,1,2-Trichloroethane	2500	2360		ug/Kg		94	78 - 135	0	20
Trichloroethene	2500	2290		ug/Kg		92	77 - 135	5	20
Methyl acetate	5000	5610		ug/Kg		112	50 - 150	8	30
1,1,2,2-Tetrachloroethane	2500	2710		ug/Kg		109	65 - 135	5	21
1,2,3-Trichlorobenzene	2500	2270		ug/Kg		91	62 - 135	17	31
Hexachlorobutadiene	2500	1860	*1	ug/Kg		74	52 - 151	35	25
Naphthalene	2500	2370		ug/Kg		95	65 - 135	6	36
o-Xylene	2500	2280		ug/Kg		91	75 - 135	15	20
2-Chlorotoluene	2500	2370		ug/Kg		95	67 - 135	16	22
1,2-Dichlorobenzene	2500	2140		ug/Kg		86	73 - 135	15	20
1,2,4-Trimethylbenzene	2500	2080	*1	ug/Kg		83	67 - 135	21	20
1,2-Dibromo-3-Chloropropane	2500	2390		ug/Kg		95	66 - 150	0	26
1,2,3-Trichloropropane	2500	2640		ug/Kg		105	65 - 135	0	21
Ethyl methacrylate	2500	2560		ug/Kg		103	50 - 150	1	30
tert-Butylbenzene	2500	2240		ug/Kg		90	66 - 135	21	22
Isopropylbenzene	2500	2100		ug/Kg		84	74 - 137	19	20
4-Isopropyltoluene	2500	1960	*1	ug/Kg		78	66 - 135	27	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*58 - 140*
Dibromofluoromethane (Surr)	*97*		*75 - 121*
Toluene-d8 (Surr)	*102*		*80 - 126*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*

Method: Moisture - Percent Moisture

Lab Sample ID: 280-194228-11 DU
Matrix: Solid
Analysis Batch: 661378

Client Sample ID: PS Soil-FD_2'_07182024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	14.2		14.5		%		3	20
Percent Solids	85.8		85.5		%		0.4	20

GC/MS VOA

Prep Batch: 661159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194228-1	PS Sample_01-1'_07182024	Total/NA	Solid	5035	
280-194228-2	PS Sample_01-2'_07182024	Total/NA	Solid	5035	
280-194228-3	PS Sample_02-1'_07182024	Total/NA	Solid	5035	
280-194228-4	PS Sample_02-2'_07182024	Total/NA	Solid	5035	
280-194228-5	PS Sample_03-1'_07182024	Total/NA	Solid	5035	
280-194228-7	PS Sample_04-1'_07182024	Total/NA	Solid	5035	
280-194228-8	PS Sample_04-2'_07182024	Total/NA	Solid	5035	
MB 280-661159/1-A	Method Blank	Total/NA	Solid	5035	
MB 280-661159/2-A	Method Blank	Total/NA	Solid	5035	
LCS 280-661159/3-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 280-661159/5-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-661159/4-A	Lab Control Sample Dup	Total/NA	Solid	5035	
LCSD 280-661159/6-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 661162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194228-1 - DL	PS Sample_01-1'_07182024	Total/NA	Solid	5035	
280-194228-6	PS Sample_03-2'_07182024	Total/NA	Solid	5035	
280-194228-9	PS Sample_05-1'_07182024	Total/NA	Solid	5035	
280-194228-10	PS Sample_05-2'_07182024	Total/NA	Solid	5035	
280-194228-11	PS Soil-FD_2'_07182024	Total/NA	Solid	5035	
MB 280-661162/1-A	Method Blank	Total/NA	Solid	5035	
LCS 280-661162/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-661162/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 662300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194228-1 - DL	PS Sample_01-1'_07182024	Total/NA	Solid	8260D	661162
280-194228-6	PS Sample_03-2'_07182024	Total/NA	Solid	8260D	661162
280-194228-9	PS Sample_05-1'_07182024	Total/NA	Solid	8260D	661162
280-194228-10	PS Sample_05-2'_07182024	Total/NA	Solid	8260D	661162
MB 280-661162/1-A	Method Blank	Total/NA	Solid	8260D	661162
LCS 280-661162/2-A	Lab Control Sample	Total/NA	Solid	8260D	661162
LCSD 280-661162/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	661162

Analysis Batch: 662399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194228-1	PS Sample_01-1'_07182024	Total/NA	Solid	8260D	661159
280-194228-2	PS Sample_01-2'_07182024	Total/NA	Solid	8260D	661159
280-194228-3	PS Sample_02-1'_07182024	Total/NA	Solid	8260D	661159
MB 280-661159/2-A	Method Blank	Total/NA	Solid	8260D	661159
LCS 280-661159/5-A	Lab Control Sample	Total/NA	Solid	8260D	661159
LCSD 280-661159/6-A	Lab Control Sample Dup	Total/NA	Solid	8260D	661159

Analysis Batch: 662439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194228-11	PS Soil-FD_2'_07182024	Total/NA	Solid	8260D	661162

Analysis Batch: 662440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194228-4	PS Sample_02-2'_07182024	Total/NA	Solid	8260D	661159

GC/MS VOA (Continued)

Analysis Batch: 662440 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194228-5	PS Sample_03-1'_07182024	Total/NA	Solid	8260D	661159
280-194228-7	PS Sample_04-1'_07182024	Total/NA	Solid	8260D	661159
280-194228-8	PS Sample_04-2'_07182024	Total/NA	Solid	8260D	661159
MB 280-661159/1-A	Method Blank	Total/NA	Solid	8260D	661159
LCS 280-661159/3-A	Lab Control Sample	Total/NA	Solid	8260D	661159
LCSD 280-661159/4-A	Lab Control Sample Dup	Total/NA	Solid	8260D	661159

General Chemistry

Analysis Batch: 661378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194228-1	PS Sample_01-1'_07182024	Total/NA	Solid	Moisture	
280-194228-2	PS Sample_01-2'_07182024	Total/NA	Solid	Moisture	
280-194228-3	PS Sample_02-1'_07182024	Total/NA	Solid	Moisture	
280-194228-4	PS Sample_02-2'_07182024	Total/NA	Solid	Moisture	
280-194228-5	PS Sample_03-1'_07182024	Total/NA	Solid	Moisture	
280-194228-6	PS Sample_03-2'_07182024	Total/NA	Solid	Moisture	
280-194228-7	PS Sample_04-1'_07182024	Total/NA	Solid	Moisture	
280-194228-8	PS Sample_04-2'_07182024	Total/NA	Solid	Moisture	
280-194228-9	PS Sample_05-1'_07182024	Total/NA	Solid	Moisture	
280-194228-10	PS Sample_05-2'_07182024	Total/NA	Solid	Moisture	
280-194228-11	PS Soil-FD_2'_07182024	Total/NA	Solid	Moisture	
280-194228-11 DU	PS Soil-FD_2'_07182024	Total/NA	Solid	Moisture	

Client Sample ID: PS Sample_01-1'_07182024

Lab Sample ID: 280-194228-1

Date Collected: 07/18/24 07:10
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 15:13	AKF	EET DEN

Client Sample ID: PS Sample_01-1'_07182024

Lab Sample ID: 280-194228-1

Date Collected: 07/18/24 07:10
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.347 g	5 g	661159	07/19/24 19:46	CCF	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	662399	07/29/24 17:20	JLS	EET DEN
Total/NA	Prep	5035	DL		5.696 g	5 g	661162	07/19/24 21:47	CCF	EET DEN
Total/NA	Analysis	8260D	DL	1	0.1 mL	5 mL	662300	07/30/24 22:44	JLS	EET DEN

Client Sample ID: PS Sample_01-2'_07182024

Lab Sample ID: 280-194228-2

Date Collected: 07/18/24 07:15
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 15:13	AKF	EET DEN

Client Sample ID: PS Sample_01-2'_07182024

Lab Sample ID: 280-194228-2

Date Collected: 07/18/24 07:15
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.216 g	5 g	661159	07/19/24 19:46	CCF	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	662399	07/29/24 17:40	JLS	EET DEN

Client Sample ID: PS Sample_02-1'_07182024

Lab Sample ID: 280-194228-3

Date Collected: 07/18/24 07:30
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 15:13	AKF	EET DEN

Client Sample ID: PS Sample_02-1'_07182024

Lab Sample ID: 280-194228-3

Date Collected: 07/18/24 07:30
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.512 g	5 g	661159	07/19/24 19:46	CCF	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	662399	07/29/24 18:00	JLS	EET DEN

Client Sample ID: PS Sample_02-2'_07182024 — **Lab Sample ID: 280-194228-4**
Date Collected: 07/18/24 07:35 — **Matrix: Solid**
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 15:13	AKF	EET DEN

Client Sample ID: PS Sample_02-2'_07182024 — **Lab Sample ID: 280-194228-4**
Date Collected: 07/18/24 07:35 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 84.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.087 g	5 g	661159	07/19/24 19:46	CCF	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	662440	07/31/24 21:01	JLS	EET DEN

Client Sample ID: PS Sample_03-1'_07182024 — **Lab Sample ID: 280-194228-5**
Date Collected: 07/18/24 07:40 — **Matrix: Solid**
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 15:13	AKF	EET DEN

Client Sample ID: PS Sample_03-1'_07182024 — **Lab Sample ID: 280-194228-5**
Date Collected: 07/18/24 07:40 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 83.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.014 g	5 g	661159	07/19/24 19:46	CCF	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	662440	07/31/24 21:20	JLS	EET DEN

Client Sample ID: PS Sample_03-2'_07182024 — **Lab Sample ID: 280-194228-6**
Date Collected: 07/18/24 07:45 — **Matrix: Solid**
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 15:13	AKF	EET DEN

Client Sample ID: PS Sample_03-2'_07182024 — **Lab Sample ID: 280-194228-6**
Date Collected: 07/18/24 07:45 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 84.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.324 g	5 g	661162	07/19/24 21:47	CCF	EET DEN
Total/NA	Analysis	8260D		1	0.1 mL	5 mL	662300	07/31/24 00:21	JLS	EET DEN

Client Sample ID: PS Sample_04-1'_07182024 — **Lab Sample ID: 280-194228-7**
Date Collected: 07/18/24 08:05 — **Matrix: Solid**
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 15:13	AKF	EET DEN

Client Sample ID: PS Sample_04-1'_07182024

Lab Sample ID: 280-194228-7

Date Collected: 07/18/24 08:05
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.808 g	5 g	661159	07/19/24 19:46	CCF	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	662440	07/31/24 21:40	JLS	EET DEN

Client Sample ID: PS Sample_04-2'_07182024

Lab Sample ID: 280-194228-8

Date Collected: 07/18/24 08:10
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 16:17	AKF	EET DEN

Client Sample ID: PS Sample_04-2'_07182024

Lab Sample ID: 280-194228-8

Date Collected: 07/18/24 08:10
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.092 g	5 g	661159	07/19/24 19:46	CCF	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	662440	07/31/24 22:00	JLS	EET DEN

Client Sample ID: PS Sample_05-1'_07182024

Lab Sample ID: 280-194228-9

Date Collected: 07/18/24 08:40
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 16:17	AKF	EET DEN

Client Sample ID: PS Sample_05-1'_07182024

Lab Sample ID: 280-194228-9

Date Collected: 07/18/24 08:40
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.313 g	5 g	661162	07/19/24 21:47	CCF	EET DEN
Total/NA	Analysis	8260D		1	0.1 mL	5 mL	662300	07/31/24 01:20	JLS	EET DEN

Client Sample ID: PS Sample_05-2'_07182024

Lab Sample ID: 280-194228-10

Date Collected: 07/18/24 08:45
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 16:17	AKF	EET DEN

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-194228-1

Client Sample ID: PS Sample_05-2'_07182024

Lab Sample ID: 280-194228-10

Date Collected: 07/18/24 08:45
Date Received: 07/19/24 08:00

Matrix: Solid
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.022 g	5 g	661162	07/19/24 21:47	CCF	EET DEN
Total/NA	Analysis	8260D		1	0.1 mL	5 mL	662300	07/31/24 01:39	JLS	EET DEN

Client Sample ID: PS Soil-FD_2'_07182024

Lab Sample ID: 280-194228-11

Date Collected: 07/18/24 00:00
Date Received: 07/19/24 08:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 16:17	AKF	EET DEN

Client Sample ID: PS Soil-FD_2'_07182024

Lab Sample ID: 280-194228-11

Date Collected: 07/18/24 00:00
Date Received: 07/19/24 08:00

Matrix: Solid
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.286 g	5 g	661162	07/19/24 21:47	CCF	EET DEN
Total/NA	Analysis	8260D		1	0.1 mL	5 mL	662439	07/31/24 20:41	JLS	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Job ID: 280-194228-1
Project/Site: ABC Cleaners, NC

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-25
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	08-02-24
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025	01-08-25
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

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Client Information	Sampler: J. Guy	Lab PM: McElheny, Megan E	Carrier Tracking No(s):	COC No: 280-141834-38435.1
Client Contact: Sanita Corum	Phone: 3158770092	E-Mail: Megan.Mcelheny@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 1
Company: EA Engineering, Science, and Technology	PWSID:			Job #:
Address: 225 Schilling Circle Suite 400	Due Date Requested: 7/25/2024			
City: Hunt Valley	TAT Requested (days): 5 days			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-771-4950(Tel) 4103295155	PO #: 24987			
Email: scorum@eaest.com Nc:theastap@eaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024283			
Site:	SSOW#:			

Analysis Requested

280-194228 Chain of Custody

Preservation Codes: N - None

Other:

Sample Identification (AMS # 7123)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture	8260D - VOCs (EnCore)	Total Number of containers	Special Instructions/Note:
		Preservation Code:					N	N		
PS ~~Post Shallow~~ Sample_01-1'_07182024	7/18/24	0710	G	S			1	3		
PS ~~Post Shallow~~ Sample_01-2'_07182024		0715					1	3		
PS ~~Post Shallow~~ Sample_02-1'_07182024		0730					1	3		
PS ~~Post Shallow~~ Sample_02-2'_07182024		0735					1	3		
PS ~~Post Shallow~~ Sample_03-1'_07182024		0740					1	3		
PS ~~Post Shallow~~ Sample_03-2'_07182024		0745					1	3		
PS ~~Post Shallow~~ Sample_04-1'_07182024		0805					1	3		
PS ~~Post Shallow~~ Sample_04-2'_07182024		0810					1	3		
PS ~~Post Shallow~~ Sample_05-1'_07182024		0840					1	3		
PS ~~Post Shallow~~ Sample_05-2'_07182024		0845					1	3		
PS Soil-FD_2'_07182024	7/18/24	-								

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jacob Guy	7/18/24 1600	EA			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/19/24 0900	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.9 Tem Corr 0.1

Ver: 04/02/2024

8/2/2024

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

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Client Information	Sampler: J Guy	Lab PM: McElheny, Megan E	Carrier Tracking No(s):	COC No: 280-141834-38435.1
Client Contact: Sanita Corum	Phone: 3158770082	E-Mail: Megan.Mcelheny@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 1
Company: EA Engineering, Science, and Technology	PWSID:	Analysis Requested		Job #:
Address: 225 Schilling Circle Suite 400	Due Date Requested: 7/25/2024			Preservation Codes: N - None
City: Hunt Valley	TAT Requested (days): 5 days			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-771-4950(Tel) 4103295155	PO #: 24987			
Email: scorum@eaest.com Na:Mheastaf@eaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024283			
Site:	SSOW#:			Other:

280-194228 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture	8260D - VOCs (EnCore)	Total Number of containers	Special Instructions/Note:
		Preservation Code:					N	N		
Post Shallow Sample_01-1'_07182024	7/18/24	0710	G	S			1	3		
Post Shallow Sample_01-2'_07182024		0715					1	3		
Post Shallow Sample_02-1'_07182024		0730					1	3		
Post Shallow Sample_02-2'_07182024		0735					1	3		
Post Shallow Sample_03-1'_07182024		0740					1	3		
Post Shallow Sample_03-2'_07182024		0745					1	3		
Post Shallow Sample_04-1'_07182024		0805					1	3		
Post Shallow Sample_04-2'_07182024		0810					1	3		
Post Shallow Sample_05-1'_07182024		0840					1	3		
Post Shallow Sample_05-2'_07182024		0845					1	3		
PS Soil-FD_2'_07182024	7/18/24	-								

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

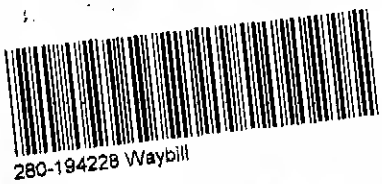
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Jguy	7/18/24 1600	EA			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					7/19/24 0900	EA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:	.4 Tm CF 0.1

Ver: 04/02/2024


FedEx
TRK# 0215 8184 0500 7365
FRI - 19 JUL 8:30A
FIRST OVERNIGHT
DSR
80002
CO-US
DEN
X1 LAAA
5395837 18Jul2024 EWNA 581G9/E0E4/C088


280-194228 Waybill

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 280-194228-1

Login Number: 194228
List Number: 1
Creator: Naylis, Patrick J

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Sanita Corum
EA Engineering, Science, and Technology
225 Schilling Circle
Suite 400
Hunt Valley, Maryland 21031

Generated 7/26/2024 1:26:02 PM

JOB DESCRIPTION

ABC Cleaners, NC

JOB NUMBER

280-194231-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

myEOL

Eurofins Denver

Job Notes

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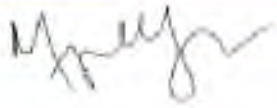
Authorization



Generated
7/26/2024 1:26:02 PM

Authorized for release by
Megan McElheny, Project Manager I
Megan.Mcelheny@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Job ID: 280-194231-1
Project/Site: ABC Cleaners, NC

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
280-194231-1

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 7/19/2024 8:00 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 2.0°C.

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

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

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-194231-1

Client Sample ID: PS Soil 06-1'_07182024 — Lab Sample ID: 280-194231-1

No Detections.

Client Sample ID: PS Soil 06-2'_07182024 — Lab Sample ID: 280-194231-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	10		5.0		ug/Kg	1	☼	8260D	Total/NA
Acetone	530		80		ug/Kg	1	☼	8260D	Total/NA
2-Butanone (MEK)	44		20		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: PS Soil 07-1'_07182024 — Lab Sample ID: 280-194231-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	330		240		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: PS Soil 07-2'_07182024 — Lab Sample ID: 280-194231-4

No Detections.

Client Sample ID: PS Soil 08-1'_07182024 — Lab Sample ID: 280-194231-5

No Detections.

Client Sample ID: PS Soil 08-2'_07182024 — Lab Sample ID: 280-194231-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		2.4		ug/Kg	1	☼	8260D	Total/NA
1,2-Dichloroethene, Total	17		4.7		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: PS Soil 09-1'_07182024 — Lab Sample ID: 280-194231-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	750		81		ug/Kg	1	☼	8260D	Total/NA
2-Butanone (MEK)	120		20		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: PS Soil 09-2'_07182024 — Lab Sample ID: 280-194231-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	260		78		ug/Kg	1	☼	8260D	Total/NA
2-Butanone (MEK)	29		20		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: PS Soil 10-1'_07182024 — Lab Sample ID: 280-194231-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	20		2.2		ug/Kg	1	☼	8260D	Total/NA
1,2-Dichloroethene, Total	20		4.5		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: PS Soil 10-2'_07182024 — Lab Sample ID: 280-194231-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		2.4		ug/Kg	1	☼	8260D	Total/NA
1,2-Dichloroethene, Total	19		4.7		ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: PS Soil-FD-1' _07182024 — Lab Sample ID: 280-194231-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	22		2.3		ug/Kg	1	☼	8260D	Total/NA
Acetone	81		74		ug/Kg	1	☼	8260D	Total/NA
1,2-Dichloroethene, Total	22		4.6		ug/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-194231-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
Moisture	Percent Moisture	EPA	EET DEN
5035	Closed System Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-194231-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-194231-1	PS Soil 06-1'_07182024	Solid	07/18/24 11:40	07/19/24 08:00
280-194231-2	PS Soil 06-2'_07182024	Solid	07/18/24 11:45	07/19/24 08:00
280-194231-3	PS Soil 07-1'_07182024	Solid	07/18/24 12:00	07/19/24 08:00
280-194231-4	PS Soil 07-2'_07182024	Solid	07/18/24 12:05	07/19/24 08:00
280-194231-5	PS Soil 08-1'_07182024	Solid	07/18/24 12:15	07/19/24 08:00
280-194231-6	PS Soil 08-2'_07182024	Solid	07/18/24 12:20	07/19/24 08:00
280-194231-7	PS Soil 09-1'_07182024	Solid	07/18/24 12:30	07/19/24 08:00
280-194231-8	PS Soil 09-2'_07182024	Solid	07/18/24 12:35	07/19/24 08:00
280-194231-9	PS Soil 10-1'_07182024	Solid	07/18/24 12:50	07/19/24 08:00
280-194231-10	PS Soil 10-2'_07182024	Solid	07/18/24 12:55	07/19/24 08:00
280-194231-11	PS Soil-FD-1' _07182024	Solid	07/18/24 00:00	07/19/24 08:00

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

Client Sample ID: PS Soil 06-1'_07182024
Lab Sample ID: 280-194231-1
Date Collected: 07/18/24 11:40
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 85.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Styrene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
cis-1,3-Dichloropropene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
trans-1,3-Dichloropropene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
N-Propylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
n-Butylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
4-Chlorotoluene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,4-Dichlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Ethylene Dibromide	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
3-Chloro-1-propene	460	U	460		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,2-Dichloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Vinyl acetate	460	U	460		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
4-Methyl-2-pentanone (MIBK)	920	U	920		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,3,5-Trimethylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Bromobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Methylcyclohexane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Toluene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Chlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Tetrahydrofuran	920	U	920		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Hexane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Cyclohexane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,2,4-Trichlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Chlorodibromomethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Tetrachloroethene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
sec-Butylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,3-Dichloropropane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
cis-1,2-Dichloroethene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
trans-1,2-Dichloroethene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Methyl tert-butyl ether	920	U	920		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
m-Xylene & p-Xylene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,3-Dichlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Carbon tetrachloride	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,1-Dichloropropene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
2-Hexanone	920	U	920		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
2,2-Dichloropropane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Ethyl ether	460	U	460		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,1,1,2-Tetrachloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Acetone	3700	U	3700		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Chloroform	460	U	460		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Benzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,1,1-Trichloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Bromomethane	460	U	460		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Chloromethane	460	U	460		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Iodomethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Dibromomethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Chlorobromomethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Chloroethane	460	U	460		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Vinyl chloride	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Methylene Chloride	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1

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

Client Sample ID: PS Soil 06-1'_07182024
Date Collected: 07/18/24 11:40
Date Received: 07/19/24 08:00

Lab Sample ID: 280-194231-1
Matrix: Solid
Percent Solids: 85.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Bromoform	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Dichlorobromomethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,1-Dichloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,1-Dichloroethene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Trichlorofluoromethane	460	U	460		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Dichlorodifluoromethane	460	U	460		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	920	U	920		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,2-Dichloropropane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
2-Butanone (MEK)	920	U	920		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,1,2-Trichloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Trichloroethene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Methyl acetate	460	U	460		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,1,2,2-Tetrachloroethane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,2,3-Trichlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Hexachlorobutadiene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Naphthalene	300	U	300		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
o-Xylene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
2-Chlorotoluene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,2-Dichlorobenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,2,4-Trimethylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,2-Dibromo-3-Chloropropane	460	U	460		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,2,3-Trichloropropane	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Ethyl methacrylate	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
tert-Butylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Isopropylbenzene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
4-Isopropyltoluene	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Xylenes, Total	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,2-Dichloroethene, Total	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
1,3-Dichloropropene, Total	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Trihalomethanes, Total	460	U	460		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1
Total BTEX	230	U	230		ug/Kg	☼	07/19/24 21:47	07/25/24 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*58 - 140*	*07/19/24 21:47*	*07/25/24 14:09*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*07/19/24 21:47*	*07/25/24 14:09*	*1*
Toluene-d8 (Surr)	*98*		*80 - 126*	*07/19/24 21:47*	*07/25/24 14:09*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 127*	*07/19/24 21:47*	*07/25/24 14:09*	*1*

Client Sample ID: PS Soil 06-2'_07182024
Date Collected: 07/18/24 11:45
Date Received: 07/19/24 08:00

Lab Sample ID: 280-194231-2
Matrix: Solid
Percent Solids: 83.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Styrene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
N-Propylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
n-Butylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
4-Chlorotoluene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1

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

Client Sample ID: PS Soil 06-2'_07182024
Date Collected: 07/18/24 11:45
Date Received: 07/19/24 08:00

Lab Sample ID: 280-194231-2
Matrix: Solid
Percent Solids: 83.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Ethylene Dibromide	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
3-Chloro-1-propene	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Vinyl acetate	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,3,5-Trimethylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Bromobenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Methylcyclohexane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Toluene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Chlorobenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Tetrahydrofuran	20	U	20		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Hexane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Cyclohexane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Chlorodibromomethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Tetrachloroethene	**10**		5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
sec-Butylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,3-Dichloropropane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
cis-1,2-Dichloroethene	2.5	U	2.5		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
trans-1,2-Dichloroethene	2.5	U	2.5		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Methyl tert-butyl ether	20	U	20		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
m-Xylene & p-Xylene	2.5	U	2.5		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Carbon tetrachloride	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,1-Dichloropropene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
2-Hexanone	20	U	20		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
2,2-Dichloropropane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Ethyl ether	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,1,1,2-Tetrachloroethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Acetone	**530**		80		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Chloroform	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Benzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Bromomethane	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Chloromethane	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Iodomethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Dibromomethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Chlorobromomethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Chloroethane	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Vinyl chloride	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Methylene Chloride	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Carbon disulfide	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Bromoform	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Dichlorobromomethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,1-Dichloroethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Trichlorofluoromethane	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Dichlorodifluoromethane	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1

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

Client Sample ID: PS Soil 06-2'_07182024 — **Lab Sample ID: 280-194231-2**
Date Collected: 07/18/24 11:45 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 83.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
2-Butanone (MEK)	**44**		20		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Trichloroethene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Methyl acetate	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,2,3-Trichlorobenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Hexachlorobutadiene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Naphthalene	6.6	U	6.6		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
o-Xylene	2.5	U	2.5		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
2-Chlorotoluene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,2,4-Trimethylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,2,3-Trichloropropane	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Ethyl methacrylate	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
tert-Butylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Isopropylbenzene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
4-Isopropyltoluene	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Xylenes, Total	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,2-Dichloroethene, Total	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
1,3-Dichloropropene, Total	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Trihalomethanes, Total	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1
Total BTEX	5.0	U	5.0		ug/Kg	☼	07/19/24 19:46	07/25/24 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*58 - 140*	*07/19/24 19:46*	*07/25/24 15:19*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*07/19/24 19:46*	*07/25/24 15:19*	*1*
Toluene-d8 (Surr)	*97*		*80 - 126*	*07/19/24 19:46*	*07/25/24 15:19*	*1*
4-Bromofluorobenzene (Surr)	*107*		*76 - 127*	*07/19/24 19:46*	*07/25/24 15:19*	*1*

Client Sample ID: PS Soil 07-1'_07182024 — **Lab Sample ID: 280-194231-3**
Date Collected: 07/18/24 12:00 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 88.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Styrene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
cis-1,3-Dichloropropene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
trans-1,3-Dichloropropene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
N-Propylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
n-Butylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
4-Chlorotoluene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,4-Dichlorobenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Ethylene Dibromide	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
3-Chloro-1-propene	470	U	470		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,2-Dichloroethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Vinyl acetate	470	U	470		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
4-Methyl-2-pentanone (MIBK)	940	U	940		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,3,5-Trimethylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1

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

Client Sample ID: PS Soil 07-1'_07182024
Lab Sample ID: 280-194231-3
Date Collected: 07/18/24 12:00
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 88.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Methylcyclohexane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Toluene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Chlorobenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Tetrahydrofuran	940	U	940		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Hexane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Cyclohexane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,2,4-Trichlorobenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Chlorodibromomethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Tetrachloroethene	**330**		240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
sec-Butylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,3-Dichloropropane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
cis-1,2-Dichloroethene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
trans-1,2-Dichloroethene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Methyl tert-butyl ether	940	U	940		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
m-Xylene & p-Xylene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,3-Dichlorobenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Carbon tetrachloride	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,1-Dichloropropene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
2-Hexanone	940	U	940		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
2,2-Dichloropropane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Ethyl ether	470	U	470		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,1,1,2-Tetrachloroethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Acetone	3800	U	3800		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Chloroform	470	U	470		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Benzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,1,1-Trichloroethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Bromomethane	470	U	470		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Chloromethane	470	U	470		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Iodomethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Dibromomethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Chlorobromomethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Chloroethane	470	U	470		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Vinyl chloride	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Methylene Chloride	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Carbon disulfide	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Bromoform	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Dichlorobromomethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,1-Dichloroethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,1-Dichloroethene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Trichlorofluoromethane	470	U	470		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Dichlorodifluoromethane	470	U	470		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	940	U	940		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,2-Dichloropropane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
2-Butanone (MEK)	940	U	940		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,1,2-Trichloroethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Trichloroethene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Methyl acetate	470	U	470		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,1,2,2-Tetrachloroethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1

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

Client Sample ID: PS Soil 07-1'_07182024
Lab Sample ID: 280-194231-3
Date Collected: 07/18/24 12:00
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 88.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Hexachlorobutadiene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Naphthalene	310	U	310		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
o-Xylene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
2-Chlorotoluene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,2-Dichlorobenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,2,4-Trimethylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,2-Dibromo-3-Chloropropane	470	U	470		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,2,3-Trichloropropane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Ethyl methacrylate	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
tert-Butylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Isopropylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
4-Isopropyltoluene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Xylenes, Total	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,2-Dichloroethene, Total	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
1,3-Dichloropropene, Total	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Trihalomethanes, Total	470	U	470		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1
Total BTEX	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*58 - 140*	*07/19/24 21:47*	*07/25/24 14:29*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 121*	*07/19/24 21:47*	*07/25/24 14:29*	*1*
Toluene-d8 (Surr)	*98*		*80 - 126*	*07/19/24 21:47*	*07/25/24 14:29*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 127*	*07/19/24 21:47*	*07/25/24 14:29*	*1*

Client Sample ID: PS Soil 07-2'_07182024
Lab Sample ID: 280-194231-4
Date Collected: 07/18/24 12:05
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 84.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Styrene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
cis-1,3-Dichloropropene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
trans-1,3-Dichloropropene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
N-Propylbenzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
n-Butylbenzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
4-Chlorotoluene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,4-Dichlorobenzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Ethylene Dibromide	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
3-Chloro-1-propene	11	U	11		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,2-Dichloroethane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Vinyl acetate	11	U	11		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,3,5-Trimethylbenzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Bromobenzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Methylcyclohexane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Toluene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Chlorobenzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Tetrahydrofuran	23	U	23		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Hexane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Cyclohexane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1

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

Client Sample ID: PS Soil 07-2'_07182024
Date Collected: 07/18/24 12:05
Date Received: 07/19/24 08:00

Lab Sample ID: 280-194231-4
Matrix: Solid
Percent Solids: 84.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Chlorodibromomethane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Tetrachloroethene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
sec-Butylbenzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,3-Dichloropropane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Methyl tert-butyl ether	23	U	23		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
m-Xylene & p-Xylene	2.9	U	2.9		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,3-Dichlorobenzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Carbon tetrachloride	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,1-Dichloropropene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
2-Hexanone	23	U	23		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
2,2-Dichloropropane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Ethyl ether	11	U	11		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,1,1,2-Tetrachloroethane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Acetone	92	U	92		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Chloroform	11	U	11		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Benzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,1,1-Trichloroethane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Bromomethane	11	U	11		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Chloromethane	11	U	11		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Iodomethane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Dibromomethane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Chlorobromomethane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Chloroethane	11	U	11		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Vinyl chloride	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Methylene Chloride	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Carbon disulfide	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Bromoform	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Dichlorobromomethane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,1-Dichloroethane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,1-Dichloroethene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Trichlorofluoromethane	11	U	11		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Dichlorodifluoromethane	11	U	11		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	23		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,2-Dichloropropane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,1,2-Trichloroethane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Trichloroethene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Methyl acetate	11	U	11		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,1,2,2-Tetrachloroethane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,2,3-Trichlorobenzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Hexachlorobutadiene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Naphthalene	7.6	U	7.6		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
o-Xylene	2.9	U	2.9		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
2-Chlorotoluene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,2-Dichlorobenzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,2,4-Trimethylbenzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1

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

Client Sample ID: PS Soil 07-2'_07182024 — **Lab Sample ID: 280-194231-4**
Date Collected: 07/18/24 12:05 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 84.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	11	U	11		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,2,3-Trichloropropane	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Ethyl methacrylate	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
tert-Butylbenzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Isopropylbenzene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
4-Isopropyltoluene	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Xylenes, Total	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,2-Dichloroethene, Total	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
1,3-Dichloropropene, Total	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Trihalomethanes, Total	11	U	11		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1
Total BTEX	5.7	U	5.7		ug/Kg	☼	07/19/24 19:46	07/25/24 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*58 - 140*	*07/19/24 19:46*	*07/25/24 15:50*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*07/19/24 19:46*	*07/25/24 15:50*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*07/19/24 19:46*	*07/25/24 15:50*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*	*07/19/24 19:46*	*07/25/24 15:50*	*1*

Client Sample ID: PS Soil 08-1'_07182024 — **Lab Sample ID: 280-194231-5**
Date Collected: 07/18/24 12:15 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 83.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Styrene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
cis-1,3-Dichloropropene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
trans-1,3-Dichloropropene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
N-Propylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
n-Butylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
4-Chlorotoluene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,4-Dichlorobenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Ethylene Dibromide	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
3-Chloro-1-propene	490	U	490		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,2-Dichloroethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Vinyl acetate	490	U	490		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
4-Methyl-2-pentanone (MIBK)	970	U	970		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,3,5-Trimethylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Bromobenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Methylcyclohexane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Toluene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Chlorobenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Tetrahydrofuran	970	U	970		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Hexane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Cyclohexane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,2,4-Trichlorobenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Chlorodibromomethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Tetrachloroethene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
sec-Butylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,3-Dichloropropane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
cis-1,2-Dichloroethene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
trans-1,2-Dichloroethene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1

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

Client Sample ID: PS Soil 08-1'_07182024
Lab Sample ID: 280-194231-5
Date Collected: 07/18/24 12:15
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 83.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	970	U	970		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
m-Xylene & p-Xylene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,3-Dichlorobenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Carbon tetrachloride	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,1-Dichloropropene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
2-Hexanone	970	U	970		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
2,2-Dichloropropane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Ethyl ether	490	U	490		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,1,1,2-Tetrachloroethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Acetone	3900	U	3900		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Chloroform	490	U	490		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Benzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,1,1-Trichloroethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Bromomethane	490	U	490		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Chloromethane	490	U	490		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Iodomethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Dibromomethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Chlorobromomethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Chloroethane	490	U	490		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Vinyl chloride	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Methylene Chloride	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Carbon disulfide	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Bromoform	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Dichlorobromomethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,1-Dichloroethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,1-Dichloroethene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Trichlorofluoromethane	490	U	490		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Dichlorodifluoromethane	490	U	490		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	970	U	970		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,2-Dichloropropane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
2-Butanone (MEK)	970	U	970		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,1,2-Trichloroethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Trichloroethene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Methyl acetate	490	U	490		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,1,2,2-Tetrachloroethane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,2,3-Trichlorobenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Hexachlorobutadiene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Naphthalene	320	U	320		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
o-Xylene	120	U	120		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
2-Chlorotoluene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,2-Dichlorobenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,2,4-Trimethylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,2-Dibromo-3-Chloropropane	490	U	490		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,2,3-Trichloropropane	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Ethyl methacrylate	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
tert-Butylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Isopropylbenzene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
4-Isopropyltoluene	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Xylenes, Total	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1

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

Client Sample ID: PS Soil 08-1'_07182024 — **Lab Sample ID: 280-194231-5**
Date Collected: 07/18/24 12:15 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 83.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
1,3-Dichloropropene, Total	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Trihalomethanes, Total	490	U	490		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1
Total BTEX	240	U	240		ug/Kg	☼	07/19/24 21:47	07/25/24 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*58 - 140*	*07/19/24 21:47*	*07/25/24 14:48*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 121*	*07/19/24 21:47*	*07/25/24 14:48*	*1*
Toluene-d8 (Surr)	*97*		*80 - 126*	*07/19/24 21:47*	*07/25/24 14:48*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 127*	*07/19/24 21:47*	*07/25/24 14:48*	*1*

Client Sample ID: PS Soil 08-2'_07182024 — **Lab Sample ID: 280-194231-6**
Date Collected: 07/18/24 12:20 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 84.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Styrene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
cis-1,3-Dichloropropene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
trans-1,3-Dichloropropene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
N-Propylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
n-Butylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
4-Chlorotoluene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,4-Dichlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Ethylene Dibromide	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
3-Chloro-1-propene	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,2-Dichloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Vinyl acetate	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
4-Methyl-2-pentanone (MIBK)	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,3,5-Trimethylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Bromobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Methylcyclohexane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Toluene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Chlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Tetrahydrofuran	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Hexane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Cyclohexane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,2,4-Trichlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Chlorodibromomethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Tetrachloroethene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
sec-Butylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,3-Dichloropropane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
cis-1,2-Dichloroethene	**17**		2.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
trans-1,2-Dichloroethene	2.4	U	2.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Methyl tert-butyl ether	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
m-Xylene & p-Xylene	2.4	U	2.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,3-Dichlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Carbon tetrachloride	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,1-Dichloropropene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
2-Hexanone	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
2,2-Dichloropropane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1

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

Client Sample ID: PS Soil 08-2'_07182024
Date Collected: 07/18/24 12:20
Date Received: 07/19/24 08:00

Lab Sample ID: 280-194231-6
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,1,1,2-Tetrachloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Acetone	75	U	75		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Chloroform	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Benzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,1,1-Trichloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Bromomethane	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Chloromethane	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Iodomethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Dibromomethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Chlorobromomethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Chloroethane	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Vinyl chloride	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Methylene Chloride	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Carbon disulfide	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Bromoform	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Dichlorobromomethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,1-Dichloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,1-Dichloroethene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Trichlorofluoromethane	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Dichlorodifluoromethane	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,2-Dichloropropane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
2-Butanone (MEK)	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,1,2-Trichloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Trichloroethene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Methyl acetate	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,1,2,2-Tetrachloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,2,3-Trichlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Hexachlorobutadiene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Naphthalene	6.2	U	6.2		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
o-Xylene	2.4	U	2.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
2-Chlorotoluene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,2-Dichlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,2,4-Trimethylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,2-Dibromo-3-Chloropropane	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,2,3-Trichloropropane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Ethyl methacrylate	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
tert-Butylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Isopropylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
4-Isopropyltoluene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Xylenes, Total	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,2-Dichloroethene, Total	**17**		4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
1,3-Dichloropropene, Total	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Trihalomethanes, Total	9.4	U	9.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1
Total BTEX	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*58 - 140*	*07/19/24 19:46*	*07/25/24 16:11*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 121*	*07/19/24 19:46*	*07/25/24 16:11*	*1*

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

Client Sample ID: PS Soil 08-2'_07182024
Date Collected: 07/18/24 12:20
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194231-6
Matrix: Solid
Percent Solids: 84.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 126*	*07/19/24 19:46*	*07/25/24 16:11*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*07/19/24 19:46*	*07/25/24 16:11*	*1*

Client Sample ID: PS Soil 09-1'_07182024
Date Collected: 07/18/24 12:30
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194231-7
Matrix: Solid
Percent Solids: 83.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Styrene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
cis-1,3-Dichloropropene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
trans-1,3-Dichloropropene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
N-Propylbenzene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
n-Butylbenzene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
4-Chlorotoluene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
1,4-Dichlorobenzene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Ethylene Dibromide	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
3-Chloro-1-propene	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
1,2-Dichloroethane	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Vinyl acetate	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
1,3,5-Trimethylbenzene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Bromobenzene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Methylcyclohexane	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Toluene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Chlorobenzene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Tetrahydrofuran	20	U	20		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Hexane	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Cyclohexane	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
1,2,4-Trichlorobenzene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Chlorodibromomethane	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Tetrachloroethene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
sec-Butylbenzene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
1,3-Dichloropropane	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
cis-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
trans-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Methyl tert-butyl ether	20	U	20		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
m-Xylene & p-Xylene	2.5	U	2.5		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
1,3-Dichlorobenzene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Carbon tetrachloride	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
1,1-Dichloropropene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
2-Hexanone	20	U	20		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
2,2-Dichloropropane	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Ethyl ether	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
1,1,1,2-Tetrachloroethane	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Acetone	**750**		81		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Chloroform	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Benzene	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
1,1,1-Trichloroethane	5.1	U	5.1		ug/Kg		07/19/24 19:46	07/25/24 16:32	1
Bromomethane	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 16:32	1

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

Client Sample ID: PS Soil 09-1'_07182024
Lab Sample ID: 280-194231-7
Date Collected: 07/18/24 12:30
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 83.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Iodomethane	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Dibromomethane	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Chlorobromomethane	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Chloroethane	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Vinyl chloride	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Methylene Chloride	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Carbon disulfide	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Bromoform	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Dichlorobromomethane	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
1,1-Dichloroethane	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
1,1-Dichloroethene	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Trichlorofluoromethane	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Dichlorodifluoromethane	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
1,2-Dichloropropane	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
2-Butanone (MEK)	**120**		20		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
1,1,2-Trichloroethane	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Trichloroethene	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Methyl acetate	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
1,1,2,2-Tetrachloroethane	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
1,2,3-Trichlorobenzene	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Hexachlorobutadiene	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Naphthalene	6.7	U	6.7		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
o-Xylene	2.5	U	2.5		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
2-Chlorotoluene	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
1,2-Dichlorobenzene	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
1,2,4-Trimethylbenzene	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
1,2,3-Trichloropropane	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Ethyl methacrylate	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
tert-Butylbenzene	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Isopropylbenzene	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
4-Isopropyltoluene	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Xylenes, Total	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
1,2-Dichloroethene, Total	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
1,3-Dichloropropene, Total	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Trihalomethanes, Total	10	U	10		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1
Total BTEX	5.1	U	5.1		ug/Kg	☼	07/19/24 19:46	07/25/24 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*58 - 140*	*07/19/24 19:46*	*07/25/24 16:32*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*07/19/24 19:46*	*07/25/24 16:32*	*1*
Toluene-d8 (Surr)	*97*		*80 - 126*	*07/19/24 19:46*	*07/25/24 16:32*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*	*07/19/24 19:46*	*07/25/24 16:32*	*1*

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

Client Sample ID: PS Soil 09-2'_07182024
Lab Sample ID: 280-194231-8
Date Collected: 07/18/24 12:35
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 83.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Styrene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
cis-1,3-Dichloropropene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
trans-1,3-Dichloropropene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
N-Propylbenzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
n-Butylbenzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
4-Chlorotoluene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,4-Dichlorobenzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Ethylene Dibromide	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
3-Chloro-1-propene	9.8	U	9.8		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,2-Dichloroethane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Vinyl acetate	9.8	U	9.8		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,3,5-Trimethylbenzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Bromobenzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Methylcyclohexane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Toluene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Chlorobenzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Tetrahydrofuran	20	U	20		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Hexane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Cyclohexane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,2,4-Trichlorobenzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Chlorodibromomethane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Tetrachloroethene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
sec-Butylbenzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,3-Dichloropropane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
cis-1,2-Dichloroethene	2.4	U	2.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
trans-1,2-Dichloroethene	2.4	U	2.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Methyl tert-butyl ether	20	U	20		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
m-Xylene & p-Xylene	2.4	U	2.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,3-Dichlorobenzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Carbon tetrachloride	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,1-Dichloropropene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
2-Hexanone	20	U	20		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
2,2-Dichloropropane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Ethyl ether	9.8	U	9.8		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,1,1,2-Tetrachloroethane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Acetone	**260**		78		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Chloroform	9.8	U	9.8		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Benzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,1,1-Trichloroethane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Bromomethane	9.8	U	9.8		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Chloromethane	9.8	U	9.8		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Iodomethane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Dibromomethane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Chlorobromomethane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Chloroethane	9.8	U	9.8		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Vinyl chloride	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Methylene Chloride	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1

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

Client Sample ID: PS Soil 09-2'_07182024 — **Lab Sample ID: 280-194231-8**
Date Collected: 07/18/24 12:35 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 83.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Bromoform	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Dichlorobromomethane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,1-Dichloroethane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,1-Dichloroethene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Trichlorofluoromethane	9.8	U	9.8		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Dichlorodifluoromethane	9.8	U	9.8		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,2-Dichloropropane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
2-Butanone (MEK)	**29**		20		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,1,2-Trichloroethane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Trichloroethene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Methyl acetate	9.8	U	9.8		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,1,2,2-Tetrachloroethane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,2,3-Trichlorobenzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Hexachlorobutadiene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Naphthalene	6.5	U	6.5		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
o-Xylene	2.4	U	2.4		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
2-Chlorotoluene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,2-Dichlorobenzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,2,4-Trimethylbenzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,2-Dibromo-3-Chloropropane	9.8	U	9.8		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,2,3-Trichloropropane	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Ethyl methacrylate	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
tert-Butylbenzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Isopropylbenzene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
4-Isopropyltoluene	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Xylenes, Total	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,2-Dichloroethene, Total	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
1,3-Dichloropropene, Total	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Trihalomethanes, Total	9.8	U	9.8		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1
Total BTEX	4.9	U	4.9		ug/Kg	☼	07/19/24 19:46	07/25/24 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*58 - 140*	*07/19/24 19:46*	*07/25/24 16:53*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*07/19/24 19:46*	*07/25/24 16:53*	*1*
Toluene-d8 (Surr)	*96*		*80 - 126*	*07/19/24 19:46*	*07/25/24 16:53*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*	*07/19/24 19:46*	*07/25/24 16:53*	*1*

Client Sample ID: PS Soil 10-1'_07182024 — **Lab Sample ID: 280-194231-9**
Date Collected: 07/18/24 12:50 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 88.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Styrene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
cis-1,3-Dichloropropene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
trans-1,3-Dichloropropene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
N-Propylbenzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
n-Butylbenzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
4-Chlorotoluene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1

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

Client Sample ID: PS Soil 10-1'_07182024
Lab Sample ID: 280-194231-9
Date Collected: 07/18/24 12:50
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 88.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Ethylene Dibromide	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
3-Chloro-1-propene	9.0	U	9.0		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,2-Dichloroethane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Vinyl acetate	9.0	U	9.0		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
4-Methyl-2-pentanone (MIBK)	18	U	18		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,3,5-Trimethylbenzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Bromobenzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Methylcyclohexane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Toluene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Chlorobenzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Tetrahydrofuran	18	U	18		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Hexane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Cyclohexane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,2,4-Trichlorobenzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Chlorodibromomethane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Tetrachloroethene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
sec-Butylbenzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,3-Dichloropropane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
cis-1,2-Dichloroethene	**20**		2.2		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
trans-1,2-Dichloroethene	2.2	U	2.2		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Methyl tert-butyl ether	18	U	18		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
m-Xylene & p-Xylene	2.2	U	2.2		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,3-Dichlorobenzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Carbon tetrachloride	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,1-Dichloropropene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
2-Hexanone	18	U	18		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
2,2-Dichloropropane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Ethyl ether	9.0	U	9.0		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,1,1,2-Tetrachloroethane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Acetone	72	U	72		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Chloroform	9.0	U	9.0		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Benzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,1,1-Trichloroethane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Bromomethane	9.0	U	9.0		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Chloromethane	9.0	U	9.0		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Iodomethane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Dibromomethane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Chlorobromomethane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Chloroethane	9.0	U	9.0		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Vinyl chloride	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Methylene Chloride	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Carbon disulfide	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Bromoform	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Dichlorobromomethane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,1-Dichloroethane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,1-Dichloroethene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Trichlorofluoromethane	9.0	U	9.0		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Dichlorodifluoromethane	9.0	U	9.0		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1

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

Client Sample ID: PS Soil 10-1'_07182024
Date Collected: 07/18/24 12:50
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194231-9
Matrix: Solid
Percent Solids: 88.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	18	U	18		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,2-Dichloropropane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
2-Butanone (MEK)	18	U	18		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,1,2-Trichloroethane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Trichloroethene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Methyl acetate	9.0	U	9.0		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,1,2,2-Tetrachloroethane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,2,3-Trichlorobenzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Hexachlorobutadiene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Naphthalene	5.9	U	5.9		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
o-Xylene	2.2	U	2.2		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
2-Chlorotoluene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,2-Dichlorobenzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,2,4-Trimethylbenzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,2-Dibromo-3-Chloropropane	9.0	U	9.0		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,2,3-Trichloropropane	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Ethyl methacrylate	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
tert-Butylbenzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Isopropylbenzene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
4-Isopropyltoluene	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Xylenes, Total	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,2-Dichloroethene, Total	**20**		4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
1,3-Dichloropropene, Total	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Trihalomethanes, Total	9.0	U	9.0		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1
Total BTEX	4.5	U	4.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*58 - 140*	*07/19/24 19:46*	*07/25/24 17:27*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*07/19/24 19:46*	*07/25/24 17:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 126*	*07/19/24 19:46*	*07/25/24 17:27*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 127*	*07/19/24 19:46*	*07/25/24 17:27*	*1*

Client Sample ID: PS Soil 10-2'_07182024
Date Collected: 07/18/24 12:55
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194231-10
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Styrene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
cis-1,3-Dichloropropene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
trans-1,3-Dichloropropene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
N-Propylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
n-Butylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
4-Chlorotoluene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,4-Dichlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Ethylene Dibromide	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
3-Chloro-1-propene	9.5	U	9.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,2-Dichloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Vinyl acetate	9.5	U	9.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
4-Methyl-2-pentanone (MIBK)	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,3,5-Trimethylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1

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

Client Sample ID: PS Soil 10-2'_07182024
Date Collected: 07/18/24 12:55
Date Received: 07/19/24 08:00

Lab Sample ID: 280-194231-10
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Methylcyclohexane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Toluene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Chlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Tetrahydrofuran	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Hexane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Cyclohexane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,2,4-Trichlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Chlorodibromomethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Tetrachloroethene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
sec-Butylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,3-Dichloropropane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
cis-1,2-Dichloroethene	**19**		2.4		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
trans-1,2-Dichloroethene	2.4	U	2.4		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Methyl tert-butyl ether	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
m-Xylene & p-Xylene	2.4	U	2.4		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,3-Dichlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Carbon tetrachloride	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,1-Dichloropropene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
2-Hexanone	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
2,2-Dichloropropane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Ethyl ether	9.5	U	9.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,1,1,2-Tetrachloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Acetone	76	U	76		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Chloroform	9.5	U	9.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Benzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,1,1-Trichloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Bromomethane	9.5	U	9.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Chloromethane	9.5	U	9.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Iodomethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Dibromomethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Chlorobromomethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Chloroethane	9.5	U	9.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Vinyl chloride	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Methylene Chloride	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Carbon disulfide	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Bromoform	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Dichlorobromomethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,1-Dichloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,1-Dichloroethene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Trichlorofluoromethane	9.5	U	9.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Dichlorodifluoromethane	9.5	U	9.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,2-Dichloropropane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
2-Butanone (MEK)	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,1,2-Trichloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Trichloroethene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Methyl acetate	9.5	U	9.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,1,2,2-Tetrachloroethane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1

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

Client Sample ID: PS Soil 10-2'_07182024 — **Lab Sample ID: 280-194231-10**
Date Collected: 07/18/24 12:55 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 85.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Hexachlorobutadiene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Naphthalene	6.3	U	6.3		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
o-Xylene	2.4	U	2.4		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
2-Chlorotoluene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,2-Dichlorobenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,2,4-Trimethylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,2-Dibromo-3-Chloropropane	9.5	U	9.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,2,3-Trichloropropane	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Ethyl methacrylate	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
tert-Butylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Isopropylbenzene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
4-Isopropyltoluene	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Xylenes, Total	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,2-Dichloroethene, Total	**19**		4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
1,3-Dichloropropene, Total	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Trihalomethanes, Total	9.5	U	9.5		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1
Total BTEX	4.7	U	4.7		ug/Kg	☼	07/19/24 19:46	07/25/24 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*58 - 140*	*07/19/24 19:46*	*07/25/24 17:47*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 121*	*07/19/24 19:46*	*07/25/24 17:47*	*1*
Toluene-d8 (Surr)	*96*		*80 - 126*	*07/19/24 19:46*	*07/25/24 17:47*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*	*07/19/24 19:46*	*07/25/24 17:47*	*1*

Client Sample ID: PS Soil-FD-1' _07182024 — **Lab Sample ID: 280-194231-11**
Date Collected: 07/18/24 00:00 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 88.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Styrene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
cis-1,3-Dichloropropene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
trans-1,3-Dichloropropene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
N-Propylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
n-Butylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
4-Chlorotoluene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,4-Dichlorobenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Ethylene Dibromide	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
3-Chloro-1-propene	9.3	U	9.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,2-Dichloroethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Vinyl acetate	9.3	U	9.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
4-Methyl-2-pentanone (MIBK)	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,3,5-Trimethylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Bromobenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Methylcyclohexane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Toluene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Chlorobenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Tetrahydrofuran	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Hexane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Cyclohexane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1

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

Client Sample ID: PS Soil-FD-1' _07182024
Lab Sample ID: 280-194231-11
Date Collected: 07/18/24 00:00
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 88.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Chlorodibromomethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Tetrachloroethene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
sec-Butylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,3-Dichloropropane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
cis-1,2-Dichloroethene	**22**		2.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
trans-1,2-Dichloroethene	2.3	U	2.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Methyl tert-butyl ether	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
m-Xylene & p-Xylene	2.3	U	2.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,3-Dichlorobenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Carbon tetrachloride	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,1-Dichloropropene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
2-Hexanone	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
2,2-Dichloropropane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Ethyl ether	9.3	U	9.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,1,1,2-Tetrachloroethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Acetone	**81**		74		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Chloroform	9.3	U	9.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Benzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,1,1-Trichloroethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Bromomethane	9.3	U	9.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Chloromethane	9.3	U	9.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Iodomethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Dibromomethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Chlorobromomethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Chloroethane	9.3	U	9.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Vinyl chloride	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Methylene Chloride	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Carbon disulfide	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Bromoform	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Dichlorobromomethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,1-Dichloroethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,1-Dichloroethene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Trichlorofluoromethane	9.3	U	9.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Dichlorodifluoromethane	9.3	U	9.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,2-Dichloropropane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
2-Butanone (MEK)	19	U	19		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,1,2-Trichloroethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Trichloroethene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Methyl acetate	9.3	U	9.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,1,2,2-Tetrachloroethane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,2,3-Trichlorobenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Hexachlorobutadiene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Naphthalene	6.1	U	6.1		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
o-Xylene	2.3	U	2.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
2-Chlorotoluene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,2-Dichlorobenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,2,4-Trimethylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1

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

Client Sample ID: PS Soil-FD-1' _07182024 — **Lab Sample ID: 280-194231-11**
Date Collected: 07/18/24 00:00 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 88.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	9.3	U	9.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,2,3-Trichloropropane	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Ethyl methacrylate	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
tert-Butylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Isopropylbenzene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
4-Isopropyltoluene	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Xylenes, Total	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,2-Dichloroethene, Total	22		4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
1,3-Dichloropropene, Total	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Trihalomethanes, Total	9.3	U	9.3		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1
Total BTEX	4.6	U	4.6		ug/Kg	☼	07/19/24 19:46	07/25/24 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*58 - 140*	*07/19/24 19:46*	*07/25/24 18:08*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*	*07/19/24 19:46*	*07/25/24 18:08*	*1*
Toluene-d8 (Surr)	*98*		*80 - 126*	*07/19/24 19:46*	*07/25/24 18:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 127*	*07/19/24 19:46*	*07/25/24 18:08*	*1*

General Chemistry

Client Sample ID: PS Soil 06-1'_07182024 — **Lab Sample ID: 280-194231-1**
Date Collected: 07/18/24 11:40 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 85.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.8		0.1		%			07/23/24 14:23	1
Percent Solids (EPA Moisture)	85.2		0.1		%			07/23/24 14:23	1

Client Sample ID: PS Soil 06-2'_07182024 — **Lab Sample ID: 280-194231-2**
Date Collected: 07/18/24 11:45 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 83.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.1		0.1		%			07/23/24 14:23	1
Percent Solids (EPA Moisture)	83.9		0.1		%			07/23/24 14:23	1

Client Sample ID: PS Soil 07-1'_07182024 — **Lab Sample ID: 280-194231-3**
Date Collected: 07/18/24 12:00 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 88.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.2		0.1		%			07/23/24 14:23	1
Percent Solids (EPA Moisture)	88.8		0.1		%			07/23/24 14:23	1

Client Sample ID: PS Soil 07-2'_07182024 — **Lab Sample ID: 280-194231-4**
Date Collected: 07/18/24 12:05 — **Matrix: Solid**
Date Received: 07/19/24 08:00 — **Percent Solids: 84.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.4		0.1		%			07/23/24 14:23	1
Percent Solids (EPA Moisture)	84.6		0.1		%			07/23/24 14:23	1

General Chemistry

Client Sample ID: PS Soil 08-1'_07182024
Date Collected: 07/18/24 12:15
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194231-5
Matrix: Solid
Percent Solids: 83.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.4**		0.1		%			07/23/24 14:23	1
Percent Solids (EPA Moisture)	83.6		0.1		%			07/23/24 14:23	1

Client Sample ID: PS Soil 08-2'_07182024
Date Collected: 07/18/24 12:20
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194231-6
Matrix: Solid
Percent Solids: 84.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**15.2**		0.1		%			07/23/24 14:23	1
Percent Solids (EPA Moisture)	84.8		0.1		%			07/23/24 14:23	1

Client Sample ID: PS Soil 09-1'_07182024
Date Collected: 07/18/24 12:30
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194231-7
Matrix: Solid
Percent Solids: 83.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.9**		0.1		%			07/23/24 14:23	1
Percent Solids (EPA Moisture)	83.1		0.1		%			07/23/24 14:23	1

Client Sample ID: PS Soil 09-2'_07182024
Date Collected: 07/18/24 12:35
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194231-8
Matrix: Solid
Percent Solids: 83.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.2		0.1		%			07/23/24 14:23	1
Percent Solids (EPA Moisture)	83.8		0.1		%			07/23/24 14:23	1

Client Sample ID: PS Soil 10-1'_07182024
Date Collected: 07/18/24 12:50
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194231-9
Matrix: Solid
Percent Solids: 88.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.3		0.1		%			07/23/24 14:23	1
Percent Solids (EPA Moisture)	88.7		0.1		%			07/23/24 14:23	1

Client Sample ID: PS Soil 10-2'_07182024
Date Collected: 07/18/24 12:55
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194231-10
Matrix: Solid
Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.1**		0.1		%			07/23/24 14:23	1
Percent Solids (EPA Moisture)	85.9		0.1		%			07/23/24 14:23	1

Client Sample ID: PS Soil-FD-1' _07182024
Date Collected: 07/18/24 00:00
Date Received: 07/19/24 08:00
Lab Sample ID: 280-194231-11
Matrix: Solid
Percent Solids: 88.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.9**		0.1		%			07/23/24 14:23	1
Percent Solids (EPA Moisture)	88.1		0.1		%			07/23/24 14:23	1

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-194231-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(58-140)	(75-121)	(80-126)	(76-127)
280-194231-1	PS Soil 06-1'_07182024	98	97	98	99
280-194231-2	PS Soil 06-2'_07182024	105	98	97	107
280-194231-3	PS Soil 07-1'_07182024	99	97	98	101
280-194231-4	PS Soil 07-2'_07182024	98	98	99	104
280-194231-5	PS Soil 08-1'_07182024	96	96	97	100
280-194231-6	PS Soil 08-2'_07182024	106	102	94	103
280-194231-7	PS Soil 09-1'_07182024	106	100	97	104
280-194231-8	PS Soil 09-2'_07182024	108	100	96	104
280-194231-9	PS Soil 10-1'_07182024	101	100	99	101
280-194231-10	PS Soil 10-2'_07182024	108	100	96	104
280-194231-11	PS Soil-FD-1' _07182024	101	98	98	100
LCS 280-661159/3-A	Lab Control Sample	103	102	97	106
LCS 280-661162/2-A	Lab Control Sample	100	100	98	104
LCSD 280-661159/4-A	Lab Control Sample Dup	101	100	98	105
LCSD 280-661162/3-A	Lab Control Sample Dup	99	101	99	104
MB 280-661159/1-A	Method Blank	104	102	96	103
MB 280-661162/1-A	Method Blank	98	99	97	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-661159/1-A
Matrix: Solid
Analysis Batch: 661854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661159

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Styrene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
N-Propylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
n-Butylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
4-Chlorotoluene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Ethylene Dibromide	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
3-Chloro-1-propene	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Vinyl acetate	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,3,5-Trimethylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Bromobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Methylcyclohexane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Toluene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Chlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Tetrahydrofuran	20	U	20		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Hexane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Cyclohexane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Chlorodibromomethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Tetrachloroethene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
sec-Butylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,3-Dichloropropane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
cis-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
trans-1,2-Dichloroethene	2.5	U	2.5		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Methyl tert-butyl ether	20	U	20		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
m-Xylene & p-Xylene	2.5	U	2.5		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Carbon tetrachloride	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,1-Dichloropropene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
2-Hexanone	20	U	20		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
2,2-Dichloropropane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Ethyl ether	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,1,1,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Acetone	80	U	80		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Chloroform	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Benzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Bromomethane	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Chloromethane	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Iodomethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Dibromomethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Chlorobromomethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Chloroethane	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Vinyl chloride	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1

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

Lab Sample ID: MB 280-661159/1-A
Matrix: Solid
Analysis Batch: 661854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661159

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Carbon disulfide	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Bromoform	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Dichlorobromomethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,1-Dichloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Trichlorofluoromethane	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Dichlorodifluoromethane	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
2-Butanone (MEK)	20	U	20		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Trichloroethene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Methyl acetate	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,2,3-Trichlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Hexachlorobutadiene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Naphthalene	6.6	U	6.6		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
o-Xylene	2.5	U	2.5		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
2-Chlorotoluene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,2,4-Trimethylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,2-Dibromo-3-Chloropropane	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,2,3-Trichloropropane	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Ethyl methacrylate	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
tert-Butylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Isopropylbenzene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
4-Isopropyltoluene	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Xylenes, Total	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,2-Dichloroethene, Total	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
1,3-Dichloropropene, Total	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Trihalomethanes, Total	10	U	10		ug/Kg		07/19/24 19:46	07/25/24 13:39	1
Total BTEX	5.0	U	5.0		ug/Kg		07/19/24 19:46	07/25/24 13:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*58 - 140*	*07/19/24 19:46*	*07/25/24 13:39*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 121*	*07/19/24 19:46*	*07/25/24 13:39*	*1*
Toluene-d8 (Surr)	*96*		*80 - 126*	*07/19/24 19:46*	*07/25/24 13:39*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 127*	*07/19/24 19:46*	*07/25/24 13:39*	*1*

Lab Sample ID: LCS 280-661159/3-A
Matrix: Solid
Analysis Batch: 661854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	46.2		ug/Kg		92	73 - 125
Styrene	50.0	47.7		ug/Kg		95	76 - 135
cis-1,3-Dichloropropene	50.0	47.9		ug/Kg		96	71 - 135

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

Lab Sample ID: LCS 280-661159/3-A
Matrix: Solid
Analysis Batch: 661854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	50.0	50.9		ug/Kg		102	71 - 135
N-Propylbenzene	50.0	48.9		ug/Kg		98	67 - 135
n-Butylbenzene	50.0	48.1		ug/Kg		96	68 - 135
4-Chlorotoluene	50.0	48.4		ug/Kg		97	68 - 135
1,4-Dichlorobenzene	50.0	47.1		ug/Kg		94	73 - 135
Ethylene Dibromide	50.0	49.1		ug/Kg		98	76 - 135
3-Chloro-1-propene	50.0	46.1		ug/Kg		92	50 - 150
1,2-Dichloroethane	50.0	47.2		ug/Kg		94	69 - 135
Vinyl acetate	100	97.4		ug/Kg		97	54 - 165
4-Methyl-2-pentanone (MIBK)	200	199		ug/Kg		99	69 - 150
1,3,5-Trimethylbenzene	50.0	49.5		ug/Kg		99	65 - 135
Bromobenzene	50.0	50.2		ug/Kg		100	72 - 135
Methylcyclohexane	50.0	46.6		ug/Kg		93	50 - 150
Toluene	50.0	47.0		ug/Kg		94	77 - 122
Chlorobenzene	50.0	45.7		ug/Kg		91	78 - 135
Tetrahydrofuran	100	94.6		ug/Kg		95	50 - 150
Hexane	50.0	42.6		ug/Kg		85	50 - 150
Cyclohexane	50.0	47.0		ug/Kg		94	50 - 150
1,2,4-Trichlorobenzene	50.0	46.1		ug/Kg		92	65 - 135
Chlorodibromomethane	50.0	48.6		ug/Kg		97	77 - 135
Tetrachloroethene	50.0	44.0		ug/Kg		88	76 - 135
sec-Butylbenzene	50.0	47.8		ug/Kg		96	69 - 135
1,3-Dichloropropane	50.0	47.9		ug/Kg		96	74 - 135
cis-1,2-Dichloroethene	50.0	47.9		ug/Kg		96	76 - 135
trans-1,2-Dichloroethene	50.0	47.1		ug/Kg		94	77 - 135
Methyl tert-butyl ether	50.0	50.5		ug/Kg		101	71 - 141
m-Xylene & p-Xylene	50.0	46.1		ug/Kg		92	77 - 135
1,3-Dichlorobenzene	50.0	47.9		ug/Kg		96	69 - 135
Carbon tetrachloride	50.0	48.3		ug/Kg		97	69 - 138
1,1-Dichloropropene	50.0	46.9		ug/Kg		94	72 - 135
2-Hexanone	200	192		ug/Kg		96	67 - 150
2,2-Dichloropropane	50.0	49.1		ug/Kg		98	69 - 135
Ethyl ether	50.0	51.6		ug/Kg		103	50 - 150
1,1,1,2-Tetrachloroethane	50.0	47.4		ug/Kg		95	76 - 135
Acetone	200	183		ug/Kg		92	65 - 150
Chloroform	50.0	48.1		ug/Kg		96	73 - 123
Benzene	50.0	47.3		ug/Kg		95	75 - 135
1,1,1-Trichloroethane	50.0	48.0		ug/Kg		96	70 - 135
Bromomethane	50.0	49.5		ug/Kg		99	52 - 135
Chloromethane	50.0	47.8		ug/Kg		96	41 - 138
Iodomethane	50.0	48.1		ug/Kg		96	74 - 142
Dibromomethane	50.0	49.7		ug/Kg		99	73 - 135
Chlorobromomethane	50.0	49.0		ug/Kg		98	74 - 135
Chloroethane	50.0	48.8		ug/Kg		98	51 - 145
Vinyl chloride	50.0	48.8		ug/Kg		98	43 - 145
Methylene Chloride	50.0	48.7		ug/Kg		97	76 - 136
Carbon disulfide	50.0	48.2		ug/Kg		96	45 - 150
Bromoform	50.0	48.4		ug/Kg		97	77 - 135
Dichlorobromomethane	50.0	50.1		ug/Kg		100	73 - 135

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

Lab Sample ID: LCS 280-661159/3-A
Matrix: Solid
Analysis Batch: 661854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	50.0	47.4		ug/Kg		95	70 - 135
1,1-Dichloroethene	50.0	48.5		ug/Kg		97	79 - 135
Trichlorofluoromethane	50.0	49.4		ug/Kg		99	48 - 150
Dichlorodifluoromethane	50.0	46.7		ug/Kg		93	32 - 152
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.1		ug/Kg		94	50 - 150
1,2-Dichloropropane	50.0	48.7		ug/Kg		97	72 - 121
2-Butanone (MEK)	200	190		ug/Kg		95	45 - 177
1,1,2-Trichloroethane	50.0	50.9		ug/Kg		102	78 - 135
Trichloroethene	50.0	45.2		ug/Kg		90	77 - 135
Methyl acetate	100	96.0		ug/Kg		96	50 - 150
1,1,2,2-Tetrachloroethane	50.0	50.2		ug/Kg		100	65 - 135
1,2,3-Trichlorobenzene	50.0	47.1		ug/Kg		94	62 - 135
Hexachlorobutadiene	50.0	47.3		ug/Kg		95	52 - 151
Naphthalene	50.0	45.4		ug/Kg		91	65 - 135
o-Xylene	50.0	45.2		ug/Kg		90	75 - 135
2-Chlorotoluene	50.0	49.3		ug/Kg		99	67 - 135
1,2-Dichlorobenzene	50.0	47.1		ug/Kg		94	73 - 135
1,2,4-Trimethylbenzene	50.0	48.9		ug/Kg		98	67 - 135
1,2-Dibromo-3-Chloropropane	50.0	44.1		ug/Kg		88	66 - 150
1,2,3-Trichloropropane	50.0	50.1		ug/Kg		100	65 - 135
Ethyl methacrylate	50.0	49.7		ug/Kg		99	50 - 150
tert-Butylbenzene	50.0	48.5		ug/Kg		97	66 - 135
Isopropylbenzene	50.0	49.8		ug/Kg		100	74 - 137
4-Isopropyltoluene	50.0	48.3		ug/Kg		97	66 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*58 - 140*
Dibromofluoromethane (Surr)	*102*		*75 - 121*
Toluene-d8 (Surr)	*97*		*80 - 126*
4-Bromofluorobenzene (Surr)	*106*		*76 - 127*

Lab Sample ID: LCSD 280-661159/4-A
Matrix: Solid
Analysis Batch: 661854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	50.0	45.1		ug/Kg		90	73 - 125	2	20
Styrene	50.0	47.1		ug/Kg		94	76 - 135	1	20
cis-1,3-Dichloropropene	50.0	46.9		ug/Kg		94	71 - 135	2	20
trans-1,3-Dichloropropene	50.0	50.6		ug/Kg		101	71 - 135	1	20
N-Propylbenzene	50.0	46.5		ug/Kg		93	67 - 135	5	22
n-Butylbenzene	50.0	44.2		ug/Kg		88	68 - 135	8	21
4-Chlorotoluene	50.0	45.9		ug/Kg		92	68 - 135	5	20
1,4-Dichlorobenzene	50.0	43.9		ug/Kg		88	73 - 135	7	22
Ethylene Dibromide	50.0	47.8		ug/Kg		96	76 - 135	3	20
3-Chloro-1-propene	50.0	43.2		ug/Kg		86	50 - 150	6	30
1,2-Dichloroethane	50.0	45.6		ug/Kg		91	69 - 135	4	20
Vinyl acetate	100	86.9		ug/Kg		87	54 - 165	11	27

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

Lab Sample ID: LCSD 280-661159/4-A
Matrix: Solid
Analysis Batch: 661854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	200	197		ug/Kg		99	69 - 150	1	25
1,3,5-Trimethylbenzene	50.0	46.1		ug/Kg		92	65 - 135	7	21
Bromobenzene	50.0	47.4		ug/Kg		95	72 - 135	6	22
Methylcyclohexane	50.0	43.9		ug/Kg		88	50 - 150	6	30
Toluene	50.0	45.7		ug/Kg		91	77 - 122	3	20
Chlorobenzene	50.0	44.7		ug/Kg		89	78 - 135	2	20
Tetrahydrofuran	100	92.2		ug/Kg		92	50 - 150	3	30
Hexane	50.0	39.5		ug/Kg		79	50 - 150	7	35
Cyclohexane	50.0	43.7		ug/Kg		87	50 - 150	7	30
1,2,4-Trichlorobenzene	50.0	43.5		ug/Kg		87	65 - 135	6	26
Chlorodibromomethane	50.0	47.7		ug/Kg		95	77 - 135	2	20
Tetrachloroethene	50.0	43.2		ug/Kg		86	76 - 135	2	20
sec-Butylbenzene	50.0	44.8		ug/Kg		90	69 - 135	7	22
1,3-Dichloropropane	50.0	47.0		ug/Kg		94	74 - 135	2	20
cis-1,2-Dichloroethene	50.0	45.6		ug/Kg		91	76 - 135	5	20
trans-1,2-Dichloroethene	50.0	44.3		ug/Kg		89	77 - 135	6	20
Methyl tert-butyl ether	50.0	46.8		ug/Kg		94	71 - 141	8	20
m-Xylene & p-Xylene	50.0	44.6		ug/Kg		89	77 - 135	3	20
1,3-Dichlorobenzene	50.0	45.1		ug/Kg		90	69 - 135	6	20
Carbon tetrachloride	50.0	45.8		ug/Kg		92	69 - 138	5	20
1,1-Dichloropropene	50.0	44.5		ug/Kg		89	72 - 135	5	20
2-Hexanone	200	189		ug/Kg		94	67 - 150	2	29
2,2-Dichloropropane	50.0	43.1		ug/Kg		86	69 - 135	13	20
Ethyl ether	50.0	47.7		ug/Kg		95	50 - 150	8	20
1,1,1,2-Tetrachloroethane	50.0	45.7		ug/Kg		91	76 - 135	4	20
Acetone	200	172		ug/Kg		86	65 - 150	6	28
Chloroform	50.0	45.9		ug/Kg		92	73 - 123	5	20
Benzene	50.0	45.1		ug/Kg		90	75 - 135	5	20
1,1,1-Trichloroethane	50.0	45.3		ug/Kg		91	70 - 135	6	20
Bromomethane	50.0	45.0		ug/Kg		90	52 - 135	10	22
Chloromethane	50.0	42.9		ug/Kg		86	41 - 138	11	25
Iodomethane	50.0	44.4		ug/Kg		89	74 - 142	8	25
Dibromomethane	50.0	48.9		ug/Kg		98	73 - 135	2	20
Chlorobromomethane	50.0	46.6		ug/Kg		93	74 - 135	5	21
Chloroethane	50.0	44.2		ug/Kg		88	51 - 145	10	22
Vinyl chloride	50.0	44.3		ug/Kg		89	43 - 145	10	24
Methylene Chloride	50.0	46.1		ug/Kg		92	76 - 136	6	21
Carbon disulfide	50.0	44.1		ug/Kg		88	45 - 150	9	24
Bromoform	50.0	47.8		ug/Kg		96	77 - 135	1	20
Dichlorobromomethane	50.0	48.8		ug/Kg		98	73 - 135	3	20
1,1-Dichloroethane	50.0	44.2		ug/Kg		88	70 - 135	7	20
1,1-Dichloroethene	50.0	44.3		ug/Kg		89	79 - 135	9	20
Trichlorofluoromethane	50.0	45.7		ug/Kg		91	48 - 150	8	33
Dichlorodifluoromethane	50.0	42.1		ug/Kg		84	32 - 152	11	28
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.4		ug/Kg		87	50 - 150	8	20
1,2-Dichloropropane	50.0	47.0		ug/Kg		94	72 - 121	3	20
2-Butanone (MEK)	200	182		ug/Kg		91	45 - 177	4	32
1,1,2-Trichloroethane	50.0	50.0		ug/Kg		100	78 - 135	2	20

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

Lab Sample ID: LCSD 280-661159/4-A
Matrix: Solid
Analysis Batch: 661854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661159

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene	50.0	44.0		ug/Kg		88	77 - 135	3	20
Methyl acetate	100	90.5		ug/Kg		90	50 - 150	6	30
1,1,2,2-Tetrachloroethane	50.0	46.3		ug/Kg		93	65 - 135	8	21
1,2,3-Trichlorobenzene	50.0	45.0		ug/Kg		90	62 - 135	5	31
Hexachlorobutadiene	50.0	42.5		ug/Kg		85	52 - 151	11	25
Naphthalene	50.0	43.2		ug/Kg		86	65 - 135	5	38
o-Xylene	50.0	44.5		ug/Kg		89	75 - 135	1	20
2-Chlorotoluene	50.0	45.7		ug/Kg		91	67 - 135	7	22
1,2-Dichlorobenzene	50.0	43.9		ug/Kg		88	73 - 135	7	20
1,2,4-Trimethylbenzene	50.0	45.8		ug/Kg		92	67 - 135	7	20
1,2-Dibromo-3-Chloropropane	50.0	39.9		ug/Kg		80	66 - 150	10	28
1,2,3-Trichloropropane	50.0	46.8		ug/Kg		94	65 - 135	7	21
Ethyl methacrylate	50.0	50.3		ug/Kg		101	50 - 150	1	30
tert-Butylbenzene	50.0	45.8		ug/Kg		92	66 - 135	6	22
Isopropylbenzene	50.0	46.9		ug/Kg		94	74 - 137	6	20
4-Isopropyltoluene	50.0	44.6		ug/Kg		89	66 - 135	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*58 - 140*
Dibromofluoromethane (Surr)	*100*		*75 - 121*
Toluene-d8 (Surr)	*98*		*80 - 126*
4-Bromofluorobenzene (Surr)	*105*		*76 - 127*

Lab Sample ID: MB 280-661162/1-A
Matrix: Solid
Analysis Batch: 661685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Styrene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
cis-1,3-Dichloropropene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
trans-1,3-Dichloropropene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
N-Propylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
n-Butylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
4-Chlorotoluene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,4-Dichlorobenzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Ethylene Dibromide	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
3-Chloro-1-propene	500	U	500		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,2-Dichloroethane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Vinyl acetate	500	U	500		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
4-Methyl-2-pentanone (MIBK)	1000	U	1000		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,3,5-Trimethylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Bromobenzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Methylcyclohexane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Toluene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Chlorobenzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Tetrahydrofuran	1000	U	1000		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Hexane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1

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

Lab Sample ID: MB 280-661162/1-A
Matrix: Solid
Analysis Batch: 661685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,2,4-Trichlorobenzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Chlorodibromomethane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Tetrachloroethene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
sec-Butylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,3-Dichloropropane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
cis-1,2-Dichloroethene	130	U	130		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
trans-1,2-Dichloroethene	130	U	130		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Methyl tert-butyl ether	1000	U	1000		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
m-Xylene & p-Xylene	130	U	130		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,3-Dichlorobenzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Carbon tetrachloride	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,1-Dichloropropene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
2-Hexanone	1000	U	1000		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
2,2-Dichloropropane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Ethyl ether	500	U	500		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,1,1,2-Tetrachloroethane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Acetone	4000	U	4000		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Chloroform	500	U	500		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Benzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,1,1-Trichloroethane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Bromomethane	500	U	500		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Chloromethane	500	U	500		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Iodomethane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Dibromomethane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Chlorobromomethane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Chloroethane	500	U	500		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Vinyl chloride	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Methylene Chloride	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Carbon disulfide	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Bromoform	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Dichlorobromomethane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,1-Dichloroethane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,1-Dichloroethene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Trichlorofluoromethane	500	U	500		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Dichlorodifluoromethane	500	U	500		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1000	U	1000		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,2-Dichloropropane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
2-Butanone (MEK)	1000	U	1000		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,1,2-Trichloroethane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Trichloroethene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Methyl acetate	500	U	500		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,1,2,2-Tetrachloroethane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,2,3-Trichlorobenzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Hexachlorobutadiene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Naphthalene	330	U	330		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
o-Xylene	130	U	130		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
2-Chlorotoluene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,2-Dichlorobenzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1

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

Lab Sample ID: MB 280-661162/1-A
Matrix: Solid
Analysis Batch: 661685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,2-Dibromo-3-Chloropropane	500	U	500		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,2,3-Trichloropropane	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Ethyl methacrylate	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
tert-Butylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Isopropylbenzene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
4-Isopropyltoluene	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Xylenes, Total	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,2-Dichloroethene, Total	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
1,3-Dichloropropene, Total	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Trihalomethanes, Total	500	U	500		ug/Kg		07/19/24 21:47	07/25/24 13:19	1
Total BTEX	250	U	250		ug/Kg		07/19/24 21:47	07/25/24 13:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*58 - 140*	*07/19/24 21:47*	*07/25/24 13:19*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 121*	*07/19/24 21:47*	*07/25/24 13:19*	*1*
Toluene-d8 (Surr)	*97*		*80 - 126*	*07/19/24 21:47*	*07/25/24 13:19*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 127*	*07/19/24 21:47*	*07/25/24 13:19*	*1*

Lab Sample ID: LCS 280-661162/2-A
Matrix: Solid
Analysis Batch: 661685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	2500	2510		ug/Kg		100	73 - 125
Styrene	2500	2610		ug/Kg		104	76 - 135
cis-1,3-Dichloropropene	2500	2560		ug/Kg		102	71 - 135
trans-1,3-Dichloropropene	2500	2650		ug/Kg		106	71 - 135
N-Propylbenzene	2500	2680		ug/Kg		107	67 - 135
n-Butylbenzene	2500	2640		ug/Kg		106	68 - 135
4-Chlorotoluene	2500	2670		ug/Kg		107	68 - 135
1,4-Dichlorobenzene	2500	2600		ug/Kg		104	73 - 135
Ethylene Dibromide	2500	2620		ug/Kg		105	76 - 135
3-Chloro-1-propene	2500	2480		ug/Kg		99	50 - 150
1,2-Dichloroethane	2500	2450		ug/Kg		98	69 - 135
Vinyl acetate	5000	5650		ug/Kg		113	54 - 165
4-Methyl-2-pentanone (MIBK)	10000	10700		ug/Kg		107	69 - 150
1,3,5-Trimethylbenzene	2500	2660		ug/Kg		107	65 - 135
Bromobenzene	2500	2670		ug/Kg		107	72 - 135
Methylcyclohexane	2500	2480		ug/Kg		99	50 - 150
Toluene	2500	2460		ug/Kg		98	77 - 122
Chlorobenzene	2500	2470		ug/Kg		99	78 - 135
Tetrahydrofuran	5000	5100		ug/Kg		102	50 - 150
Hexane	2500	2410		ug/Kg		97	50 - 150
Cyclohexane	2500	2500		ug/Kg		100	50 - 150
1,2,4-Trichlorobenzene	2500	2620		ug/Kg		105	65 - 135
Chlorodibromomethane	2500	2560		ug/Kg		102	77 - 135
Tetrachloroethene	2500	2430		ug/Kg		97	76 - 135

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

Lab Sample ID: LCS 280-661162/2-A
Matrix: Solid
Analysis Batch: 661685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
sec-Butylbenzene	2500	2580		ug/Kg		103	69 - 135
1,3-Dichloropropane	2500	2510		ug/Kg		101	74 - 135
cis-1,2-Dichloroethene	2500	2530		ug/Kg		101	76 - 135
trans-1,2-Dichloroethene	2500	2530		ug/Kg		101	77 - 135
Methyl tert-butyl ether	2500	2590		ug/Kg		104	71 - 141
m-Xylene & p-Xylene	2500	2500		ug/Kg		100	77 - 135
1,3-Dichlorobenzene	2500	2630		ug/Kg		105	69 - 135
Carbon tetrachloride	2500	2530		ug/Kg		101	69 - 138
1,1-Dichloropropene	2500	2470		ug/Kg		99	72 - 135
2-Hexanone	10000	10400		ug/Kg		104	67 - 150
2,2-Dichloropropane	2500	2600		ug/Kg		104	69 - 135
Ethyl ether	2500	2660		ug/Kg		106	50 - 150
1,1,1,2-Tetrachloroethane	2500	2540		ug/Kg		102	76 - 135
Acetone	10000	10200		ug/Kg		102	65 - 150
Chloroform	2500	2530		ug/Kg		101	73 - 123
Benzene	2500	2480		ug/Kg		99	75 - 135
1,1,1-Trichloroethane	2500	2550		ug/Kg		102	70 - 135
Bromomethane	2500	2590		ug/Kg		103	52 - 135
Chloromethane	2500	2580		ug/Kg		103	41 - 138
Iodomethane	2500	2560		ug/Kg		102	74 - 142
Dibromomethane	2500	2590		ug/Kg		104	73 - 135
Chlorobromomethane	2500	2540		ug/Kg		102	74 - 135
Chloroethane	2500	2610		ug/Kg		105	51 - 145
Vinyl chloride	2500	2650		ug/Kg		106	43 - 145
Methylene Chloride	2500	2610		ug/Kg		104	76 - 136
Carbon disulfide	2500	2580		ug/Kg		103	45 - 150
Bromoform	2500	2560		ug/Kg		102	77 - 135
Dichlorobromomethane	2500	2590		ug/Kg		104	73 - 135
1,1-Dichloroethane	2500	2490		ug/Kg		99	70 - 135
1,1-Dichloroethene	2500	2600		ug/Kg		104	79 - 135
Trichlorofluoromethane	2500	2640		ug/Kg		105	48 - 150
Dichlorodifluoromethane	2500	2470		ug/Kg		99	32 - 152
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2560		ug/Kg		102	50 - 150
1,2-Dichloropropane	2500	2520		ug/Kg		101	72 - 121
2-Butanone (MEK)	10000	10200		ug/Kg		102	45 - 177
1,1,2-Trichloroethane	2500	2570		ug/Kg		103	78 - 135
Trichloroethene	2500	2420		ug/Kg		97	77 - 135
Methyl acetate	5000	5080		ug/Kg		102	50 - 150
1,1,2,2-Tetrachloroethane	2500	2720		ug/Kg		109	65 - 135
1,2,3-Trichlorobenzene	2500	2590		ug/Kg		103	62 - 135
Hexachlorobutadiene	2500	2580		ug/Kg		103	52 - 151
Naphthalene	2500	2450		ug/Kg		98	65 - 135
o-Xylene	2500	2470		ug/Kg		99	75 - 135
2-Chlorotoluene	2500	2630		ug/Kg		105	67 - 135
1,2-Dichlorobenzene	2500	2530		ug/Kg		101	73 - 135
1,2,4-Trimethylbenzene	2500	2650		ug/Kg		106	67 - 135
1,2-Dibromo-3-Chloropropane	2500	2350		ug/Kg		94	66 - 150
1,2,3-Trichloropropane	2500	2670		ug/Kg		107	65 - 135

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

Lab Sample ID: LCS 280-661162/2-A
Matrix: Solid
Analysis Batch: 661685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethyl methacrylate	2500	2660		ug/Kg		106	50 - 150
tert-Butylbenzene	2500	2600		ug/Kg		104	66 - 135
Isopropylbenzene	2500	2680		ug/Kg		107	74 - 137
4-Isopropyltoluene	2500	2610		ug/Kg		105	66 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*58 - 140*
Dibromofluoromethane (Surr)	*100*		*75 - 121*
Toluene-d8 (Surr)	*98*		*80 - 126*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*

Lab Sample ID: LCSD 280-661162/3-A
Matrix: Solid
Analysis Batch: 661685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661162

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	2500	2520		ug/Kg		101	73 - 125	0	20
Styrene	2500	2580		ug/Kg		103	76 - 135	1	20
cis-1,3-Dichloropropene	2500	2590		ug/Kg		104	71 - 135	1	20
trans-1,3-Dichloropropene	2500	2580		ug/Kg		103	71 - 135	3	20
N-Propylbenzene	2500	2640		ug/Kg		106	67 - 135	2	22
n-Butylbenzene	2500	2650		ug/Kg		106	68 - 135	0	21
4-Chlorotoluene	2500	2610		ug/Kg		104	68 - 135	2	20
1,4-Dichlorobenzene	2500	2570		ug/Kg		103	73 - 135	1	22
Ethylene Dibromide	2500	2560		ug/Kg		103	76 - 135	2	20
3-Chloro-1-propene	2500	2500		ug/Kg		100	50 - 150	1	30
1,2-Dichloroethane	2500	2420		ug/Kg		97	69 - 135	1	20
Vinyl acetate	5000	5240		ug/Kg		105	54 - 165	8	27
4-Methyl-2-pentanone (MIBK)	10000	10000		ug/Kg		100	69 - 150	6	25
1,3,5-Trimethylbenzene	2500	2660		ug/Kg		106	65 - 135	0	21
Bromobenzene	2500	2640		ug/Kg		106	72 - 135	1	22
Methylcyclohexane	2500	2520		ug/Kg		101	50 - 150	2	30
Toluene	2500	2490		ug/Kg		100	77 - 122	1	20
Chlorobenzene	2500	2500		ug/Kg		100	78 - 135	1	20
Tetrahydrofuran	5000	4830		ug/Kg		97	50 - 150	5	30
Hexane	2500	2450		ug/Kg		98	50 - 150	2	35
Cyclohexane	2500	2510		ug/Kg		100	50 - 150	0	30
1,2,4-Trichlorobenzene	2500	2560		ug/Kg		102	65 - 135	2	26
Chlorodibromomethane	2500	2570		ug/Kg		103	77 - 135	0	20
Tetrachloroethene	2500	2450		ug/Kg		98	76 - 135	1	20
sec-Butylbenzene	2500	2570		ug/Kg		103	69 - 135	1	22
1,3-Dichloropropane	2500	2470		ug/Kg		99	74 - 135	2	20
cis-1,2-Dichloroethene	2500	2560		ug/Kg		102	76 - 135	1	20
trans-1,2-Dichloroethene	2500	2580		ug/Kg		103	77 - 135	2	20
Methyl tert-butyl ether	2500	2560		ug/Kg		103	71 - 141	1	20
m-Xylene & p-Xylene	2500	2510		ug/Kg		100	77 - 135	1	20
1,3-Dichlorobenzene	2500	2640		ug/Kg		106	69 - 135	0	20
Carbon tetrachloride	2500	2590		ug/Kg		104	69 - 138	3	20

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

Lab Sample ID: LCSD 280-661162/3-A
Matrix: Solid
Analysis Batch: 661685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661162

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloropropene	2500	2500		ug/Kg		100	72 - 135	1	20
2-Hexanone	10000	9830		ug/Kg		98	67 - 150	6	29
2,2-Dichloropropane	2500	2600		ug/Kg		104	69 - 135	0	20
Ethyl ether	2500	2590		ug/Kg		104	50 - 150	3	20
1,1,1,2-Tetrachloroethane	2500	2590		ug/Kg		104	76 - 135	2	20
Acetone	10000	9590		ug/Kg		96	65 - 150	6	28
Chloroform	2500	2550		ug/Kg		102	73 - 123	1	20
Benzene	2500	2500		ug/Kg		100	75 - 135	1	20
1,1,1-Trichloroethane	2500	2580		ug/Kg		103	70 - 135	1	20
Bromomethane	2500	2770		ug/Kg		111	52 - 135	7	22
Chloromethane	2500	2780		ug/Kg		111	41 - 138	7	25
Iodomethane	2500	2600		ug/Kg		104	74 - 142	2	25
Dibromomethane	2500	2570		ug/Kg		103	73 - 135	1	20
Chlorobromomethane	2500	2530		ug/Kg		101	74 - 135	0	21
Chloroethane	2500	2860		ug/Kg		114	51 - 145	9	22
Vinyl chloride	2500	2910		ug/Kg		116	43 - 145	9	24
Methylene Chloride	2500	2620		ug/Kg		105	76 - 136	1	21
Carbon disulfide	2500	2630		ug/Kg		105	45 - 150	2	24
Bromoform	2500	2540		ug/Kg		102	77 - 135	1	20
Dichlorobromomethane	2500	2610		ug/Kg		104	73 - 135	1	20
1,1-Dichloroethane	2500	2520		ug/Kg		101	70 - 135	2	20
1,1-Dichloroethene	2500	2600		ug/Kg		104	79 - 135	0	20
Trichlorofluoromethane	2500	2890		ug/Kg		116	48 - 150	9	33
Dichlorodifluoromethane	2500	2680		ug/Kg		107	32 - 152	8	28
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2620		ug/Kg		105	50 - 150	2	20
1,2-Dichloropropane	2500	2500		ug/Kg		100	72 - 121	1	20
2-Butanone (MEK)	10000	9590		ug/Kg		96	45 - 177	6	32
1,1,2-Trichloroethane	2500	2550		ug/Kg		102	78 - 135	1	20
Trichloroethene	2500	2530		ug/Kg		101	77 - 135	4	20
Methyl acetate	5000	4860		ug/Kg		97	50 - 150	4	30
1,1,2,2-Tetrachloroethane	2500	2630		ug/Kg		105	65 - 135	4	21
1,2,3-Trichlorobenzene	2500	2560		ug/Kg		102	62 - 135	1	31
Hexachlorobutadiene	2500	2560		ug/Kg		102	52 - 151	1	25
Naphthalene	2500	2470		ug/Kg		99	65 - 135	1	30
o-Xylene	2500	2510		ug/Kg		100	75 - 135	2	20
2-Chlorotoluene	2500	2660		ug/Kg		106	67 - 135	1	22
1,2-Dichlorobenzene	2500	2510		ug/Kg		100	73 - 135	1	20
1,2,4-Trimethylbenzene	2500	2630		ug/Kg		105	67 - 135	1	20
1,2-Dibromo-3-Chloropropane	2500	2340		ug/Kg		94	66 - 150	0	28
1,2,3-Trichloropropane	2500	2550		ug/Kg		102	65 - 135	5	21
Ethyl methacrylate	2500	2550		ug/Kg		102	50 - 150	4	30
tert-Butylbenzene	2500	2630		ug/Kg		105	66 - 135	1	22
Isopropylbenzene	2500	2690		ug/Kg		108	74 - 137	0	20
4-Isopropyltoluene	2500	2630		ug/Kg		105	66 - 135	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*58 - 140*

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

Lab Sample ID: LCSD 280-661162/3-A
Matrix: Solid
Analysis Batch: 661685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661162

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	*101*		*75 - 121*
Toluene-d8 (Surr)	*99*		*80 - 126*
4-Bromofluorobenzene (Surr)	*104*		*76 - 127*

GC/MS VOA

Prep Batch: 661159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194231-2	PS Soil 06-2'_07182024	Total/NA	Solid	5035	
280-194231-4	PS Soil 07-2'_07182024	Total/NA	Solid	5035	
280-194231-6	PS Soil 08-2'_07182024	Total/NA	Solid	5035	
280-194231-7	PS Soil 09-1'_07182024	Total/NA	Solid	5035	
280-194231-8	PS Soil 09-2'_07182024	Total/NA	Solid	5035	
280-194231-9	PS Soil 10-1'_07182024	Total/NA	Solid	5035	
280-194231-10	PS Soil 10-2'_07182024	Total/NA	Solid	5035	
280-194231-11	PS Soil-FD-1' _07182024	Total/NA	Solid	5035	
MB 280-661159/1-A	Method Blank	Total/NA	Solid	5035	
LCS 280-661159/3-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-661159/4-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 661162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194231-1	PS Soil 06-1'_07182024	Total/NA	Solid	5035	
280-194231-3	PS Soil 07-1'_07182024	Total/NA	Solid	5035	
280-194231-5	PS Soil 08-1'_07182024	Total/NA	Solid	5035	
MB 280-661162/1-A	Method Blank	Total/NA	Solid	5035	
LCS 280-661162/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-661162/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 661685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194231-1	PS Soil 06-1'_07182024	Total/NA	Solid	8260D	661162
280-194231-3	PS Soil 07-1'_07182024	Total/NA	Solid	8260D	661162
280-194231-5	PS Soil 08-1'_07182024	Total/NA	Solid	8260D	661162
MB 280-661162/1-A	Method Blank	Total/NA	Solid	8260D	661162
LCS 280-661162/2-A	Lab Control Sample	Total/NA	Solid	8260D	661162
LCSD 280-661162/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	661162

Analysis Batch: 661854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194231-2	PS Soil 06-2'_07182024	Total/NA	Solid	8260D	661159
280-194231-4	PS Soil 07-2'_07182024	Total/NA	Solid	8260D	661159
280-194231-6	PS Soil 08-2'_07182024	Total/NA	Solid	8260D	661159
280-194231-7	PS Soil 09-1'_07182024	Total/NA	Solid	8260D	661159
280-194231-8	PS Soil 09-2'_07182024	Total/NA	Solid	8260D	661159
280-194231-9	PS Soil 10-1'_07182024	Total/NA	Solid	8260D	661159
280-194231-10	PS Soil 10-2'_07182024	Total/NA	Solid	8260D	661159
280-194231-11	PS Soil-FD-1' _07182024	Total/NA	Solid	8260D	661159
MB 280-661159/1-A	Method Blank	Total/NA	Solid	8260D	661159
LCS 280-661159/3-A	Lab Control Sample	Total/NA	Solid	8260D	661159
LCSD 280-661159/4-A	Lab Control Sample Dup	Total/NA	Solid	8260D	661159

General Chemistry

Analysis Batch: 661378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194231-1	PS Soil 06-1'_07182024	Total/NA	Solid	Moisture	
280-194231-2	PS Soil 06-2'_07182024	Total/NA	Solid	Moisture	
280-194231-3	PS Soil 07-1'_07182024	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 661378 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194231-4	PS Soil 07-2'_07182024	Total/NA	Solid	Moisture	
280-194231-5	PS Soil 08-1'_07182024	Total/NA	Solid	Moisture	
280-194231-6	PS Soil 08-2'_07182024	Total/NA	Solid	Moisture	
280-194231-7	PS Soil 09-1'_07182024	Total/NA	Solid	Moisture	
280-194231-8	PS Soil 09-2'_07182024	Total/NA	Solid	Moisture	
280-194231-9	PS Soil 10-1'_07182024	Total/NA	Solid	Moisture	
280-194231-10	PS Soil 10-2'_07182024	Total/NA	Solid	Moisture	
280-194231-11	PS Soil-FD-1' _07182024	Total/NA	Solid	Moisture	

Client Sample ID: PS Soil 06-1'_07182024

Lab Sample ID: 280-194231-1

Date Collected: 07/18/24 11:40
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 14:23	AKF	EET DEN

Client Sample ID: PS Soil 06-1'_07182024

Lab Sample ID: 280-194231-1

Date Collected: 07/18/24 11:40
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.357 g	5 g	661162	07/19/24 21:47	CCF	EET DEN
Total/NA	Analysis	8260D		1	0.1 mL	5 mL	661685	07/25/24 14:09	JLS	EET DEN

Client Sample ID: PS Soil 06-2'_07182024

Lab Sample ID: 280-194231-2

Date Collected: 07/18/24 11:45
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 14:23	AKF	EET DEN

Client Sample ID: PS Soil 06-2'_07182024

Lab Sample ID: 280-194231-2

Date Collected: 07/18/24 11:45
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.957 g	5 g	661159	07/19/24 19:46	CCF	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	661854	07/25/24 15:19	JLS	EET DEN

Client Sample ID: PS Soil 07-1'_07182024

Lab Sample ID: 280-194231-3

Date Collected: 07/18/24 12:00
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 14:23	AKF	EET DEN

Client Sample ID: PS Soil 07-1'_07182024

Lab Sample ID: 280-194231-3

Date Collected: 07/18/24 12:00
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.957 g	5 g	661162	07/19/24 21:47	CCF	EET DEN
Total/NA	Analysis	8260D		1	0.1 mL	5 mL	661685	07/25/24 14:29	JLS	EET DEN

Client Sample ID: PS Soil 07-2'_07182024

Lab Sample ID: 280-194231-4

Date Collected: 07/18/24 12:05
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 14:23	AKF	EET DEN

Client Sample ID: PS Soil 07-2'_07182024

Lab Sample ID: 280-194231-4
Date Collected: 07/18/24 12:05
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.144 g	5 g	661159	07/19/24 19:46	CCF	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	661854	07/25/24 15:50	JLS	EET DEN

Client Sample ID: PS Soil 08-1'_07182024

Lab Sample ID: 280-194231-5
Date Collected: 07/18/24 12:15
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 14:23	AKF	EET DEN

Client Sample ID: PS Soil 08-1'_07182024

Lab Sample ID: 280-194231-5
Date Collected: 07/18/24 12:15
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.139 g	5 g	661162	07/19/24 21:47	CCF	EET DEN
Total/NA	Analysis	8260D		1	0.1 mL	5 mL	661685	07/25/24 14:48	JLS	EET DEN

Client Sample ID: PS Soil 08-2'_07182024

Lab Sample ID: 280-194231-6
Date Collected: 07/18/24 12:20
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 14:23	AKF	EET DEN

Client Sample ID: PS Soil 08-2'_07182024

Lab Sample ID: 280-194231-6
Date Collected: 07/18/24 12:20
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.254 g	5 g	661159	07/19/24 19:46	CCF	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	661854	07/25/24 16:11	JLS	EET DEN

Client Sample ID: PS Soil 09-1'_07182024

Lab Sample ID: 280-194231-7
Date Collected: 07/18/24 12:30
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 14:23	AKF	EET DEN

Client Sample ID: PS Soil 09-1'_07182024

Lab Sample ID: 280-194231-7

Date Collected: 07/18/24 12:30
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.922 g	5 g	661159	07/19/24 19:46	CCF	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	661854	07/25/24 16:32	JLS	EET DEN

Client Sample ID: PS Soil 09-2'_07182024

Lab Sample ID: 280-194231-8

Date Collected: 07/18/24 12:35
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 14:23	AKF	EET DEN

Client Sample ID: PS Soil 09-2'_07182024

Lab Sample ID: 280-194231-8

Date Collected: 07/18/24 12:35
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.100 g	5 g	661159	07/19/24 19:46	CCF	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	661854	07/25/24 16:53	JLS	EET DEN

Client Sample ID: PS Soil 10-1'_07182024

Lab Sample ID: 280-194231-9

Date Collected: 07/18/24 12:50
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 14:23	AKF	EET DEN

Client Sample ID: PS Soil 10-1'_07182024

Lab Sample ID: 280-194231-9

Date Collected: 07/18/24 12:50
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.298 g	5 g	661159	07/19/24 19:46	CCF	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	661854	07/25/24 17:27	JLS	EET DEN

Client Sample ID: PS Soil 10-2'_07182024

Lab Sample ID: 280-194231-10

Date Collected: 07/18/24 12:55
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 14:23	AKF	EET DEN

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-194231-1

Client Sample ID: PS Soil 10-2'_07182024

Lab Sample ID: 280-194231-10

Date Collected: 07/18/24 12:55
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.136 g	5 g	661159	07/19/24 19:46	CCF	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	661854	07/25/24 17:47	JLS	EET DEN

Client Sample ID: PS Soil-FD-1' _07182024

Lab Sample ID: 280-194231-11

Date Collected: 07/18/24 00:00
Matrix: Solid
Date Received: 07/19/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			661378	07/23/24 14:23	AKF	EET DEN

Client Sample ID: PS Soil-FD-1' _07182024

Lab Sample ID: 280-194231-11

Date Collected: 07/18/24 00:00
Matrix: Solid
Date Received: 07/19/24 08:00
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.135 g	5 g	661159	07/19/24 19:46	CCF	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	661854	07/25/24 18:08	JLS	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Job ID: 280-194231-1
Project/Site: ABC Cleaners, NC

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24 *
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	08-02-24
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025	01-08-25
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins

Client Information	Sampler: Jake Guy	Lab PM: Megan, McElhany	Carrier Tracking No(s):	COC No:
Client Contact: Sanita Corum	Phone: 757 759-6923	E-Mail: Megan.McElhany@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 1
Company: EA Engineering, Science, and Technology, Inc., PBC	PWSID:	Analysis Requested		Job #:
Address: 225 Schilling Circle Suite 400	Due Date Requested: 7/25/2024			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
City: Hunt Valley	TAT Requested (days): 5 Days			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-329-5155 (Tel)	PO #: 24987			
Email: northeastap@eaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024283			
Site:	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC 8260	Moisture									Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	N	N	N	N	CB	B	N	X	
PS Soil 06-1'_07182024	7/18/24	1140	G	S			X	X										
PS Soil 06-2'_07182024	7/18/24	1145	G	S			X	X										
PS Soil 07-1'_07182024	7/18/24	1200	G	S			X	X										
PS Soil 07-2'_07182024	7/18/24	1205	G	S			X	X										
PS Soil 08-1'_07182024	7/18/24	1215	G	S			X	X										
PS Soil 08-2'_07182024	7/18/24	1220	G	S			X	X										
PS Soil 09-1'_07182024	7/18/24	1230	G	S			X	X										
PS Soil 09-2'_07182024	7/18/24	1235	G	S			X	X										
PS Soil 10-1'_07182024	7/18/24	1250	G	S			X	X										
PS Soil 10-2'_07182024	7/18/24	1255	G	S			X	X										
PS Soil-FD-1'_07182024	7/18/24	—	G	S			X	X										

280-194231 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[x] Non-Hazard [ ] Flammable Skin Irritant [ ] Poison B Unknown Radiological	[ ] Return To Client [x] Disposal By Lab [ ] Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

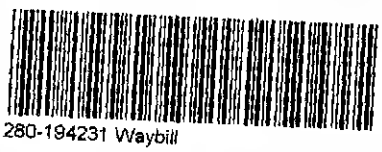
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/19/24 0800	Company EKTL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.9 Tm (CF 0.1)

Ver: 01/16/2019

7/26/2024




280-194231 Waybill

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 280-194231-1

Login Number: 194231
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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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ANALYTICAL REPORT

PREPARED FOR

Attn: Sanita Corum
EA Engineering, Science, and Technology
225 Schilling Circle
Suite 400
Hunt Valley, Maryland 21031
Generated 3/18/2024 12:35:21 PM

JOB DESCRIPTION

ABC Cleaners, NC

JOB NUMBER

280-188659-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

myEOL

Eurofins Denver

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 TestAmerica Project Manager.

Authorization

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3/18/2024 12:35:21 PM

Authorized for release by
Michael Norton, Project Manager I
Michael.Norton@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-188659-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
280-188659-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/12/2024 8:00 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 2.0°C.

Receipt Exceptions
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): MPE-01 (280-188659-1), MPE-02 (280-188659-2), MPE-03 (280-188659-3) and MPE-04 (280-188659-4). Samples are marked as M-1,M-2,M-3, and M-4.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 280-646012 recovered above the upper control limit for chlorobromomethane (20.5%D, 20%D Limit). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 280-646012/2).

Method 8260D: The following samples for method 8260 are logged in as unpreserved, but have a two week holding time with a purge gas container matrix: MPE-01 (280-188659-1), MPE-02 (280-188659-2), MPE-03 (280-188659-3), MPE-04 (280-188659-4) and Trip Blank (280-188659-5). All samples have been run within the 7 day holding time for unpreserved samples.

Method 8260D: The method requirement for no headspace was not met. The following volatile samples were analyzed with significant headspace in the sample container(s): MPE-03 (280-188659-3) and MPE-04 (280-188659-4). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MPE-01 (280-188659-1). 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.

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-188659-1

Client Sample ID: MPE-01

Lab Sample ID: 280-188659-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	4300		50		ug/L	50		8260D	Total/NA

Client Sample ID: MPE-02

Lab Sample ID: 280-188659-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	140		1.0		ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	6.8		1.0		ug/L	1		8260D	Total/NA
Acetone	79		15		ug/L	1		8260D	Total/NA
Trichloroethene	1.2		1.0		ug/L	1		8260D	Total/NA
1,2-Dichloroethene, Total	6.8		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MPE-03

Lab Sample ID: 280-188659-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.9		1.0		ug/L	1		8260D	Total/NA
Tetrachloroethene	100		1.0		ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.2		1.0		ug/L	1		8260D	Total/NA
Acetone	130		15		ug/L	1		8260D	Total/NA
Trichloroethene	1.6		1.0		ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	23		1.0		ug/L	1		8260D	Total/NA
1,2-Dichloroethene, Total	2.2		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MPE-04

Lab Sample ID: 280-188659-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	49		1.0		ug/L	1		8260D	Total/NA
Acetone	190		15		ug/L	1		8260D	Total/NA
2-Butanone (MEK)	15		15		ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	5.0		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 280-188659-5

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-188659-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-188659-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-188659-1	MPE-01	Water	03/11/24 09:49	03/12/24 08:00
280-188659-2	MPE-02	Water	03/11/24 10:02	03/12/24 08:00
280-188659-3	MPE-03	Water	03/11/24 10:10	03/12/24 08:00
280-188659-4	MPE-04	Water	03/11/24 10:18	03/12/24 08:00
280-188659-5	Trip Blank	Water	03/11/24 00:00	03/12/24 08:00

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

Client Sample ID: MPE-01
Date Collected: 03/11/24 09:49
Date Received: 03/12/24 08:00

Lab Sample ID: 280-188659-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	50	U	50		ug/L			03/15/24 14:19	50
Styrene	50	U	50		ug/L			03/15/24 14:19	50
cis-1,3-Dichloropropene	100	U	100		ug/L			03/15/24 14:19	50
trans-1,3-Dichloropropene	100	U	100		ug/L			03/15/24 14:19	50
N-Propylbenzene	50	U	50		ug/L			03/15/24 14:19	50
n-Butylbenzene	50	U	50		ug/L			03/15/24 14:19	50
4-Chlorotoluene	50	U	50		ug/L			03/15/24 14:19	50
1,4-Dichlorobenzene	50	U	50		ug/L			03/15/24 14:19	50
Ethylene Dibromide	50	U	50		ug/L			03/15/24 14:19	50
3-Chloro-1-propene	100	U	100		ug/L			03/15/24 14:19	50
1,2-Dichloroethane	50	U	50		ug/L			03/15/24 14:19	50
Acrylonitrile	1000	U	1000		ug/L			03/15/24 14:19	50
Vinyl acetate	150	U	150		ug/L			03/15/24 14:19	50
4-Methyl-2-pentanone (MIBK)	250	U	250		ug/L			03/15/24 14:19	50
1,3,5-Trimethylbenzene	50	U	50		ug/L			03/15/24 14:19	50
Bromobenzene	50	U	50		ug/L			03/15/24 14:19	50
Methylcyclohexane	50	U	50		ug/L			03/15/24 14:19	50
Toluene	50	U	50		ug/L			03/15/24 14:19	50
Chlorobenzene	50	U	50		ug/L			03/15/24 14:19	50
Tetrahydrofuran	350	U	350		ug/L			03/15/24 14:19	50
Hexane	100	U	100		ug/L			03/15/24 14:19	50
Cyclohexane	50	U	50		ug/L			03/15/24 14:19	50
1,2,4-Trichlorobenzene	50	U	50		ug/L			03/15/24 14:19	50
Chlorodibromomethane	100	U	100		ug/L			03/15/24 14:19	50
Tetrachloroethene	**4300**		50		ug/L			03/15/24 14:19	50
sec-Butylbenzene	50	U	50		ug/L			03/15/24 14:19	50
1,3-Dichloropropane	50	U	50		ug/L			03/15/24 14:19	50
cis-1,2-Dichloroethene	50	U	50		ug/L			03/15/24 14:19	50
trans-1,2-Dichloroethene	50	U	50		ug/L			03/15/24 14:19	50
Methyl tert-butyl ether	250	U	250		ug/L			03/15/24 14:19	50
m-Xylene & p-Xylene	100	U	100		ug/L			03/15/24 14:19	50
1,3-Dichlorobenzene	50	U	50		ug/L			03/15/24 14:19	50
Carbon tetrachloride	50	U	50		ug/L			03/15/24 14:19	50
1,1-Dichloropropene	50	U	50		ug/L			03/15/24 14:19	50
2-Hexanone	250	U	250		ug/L			03/15/24 14:19	50
2,2-Dichloropropane	50	U	50		ug/L			03/15/24 14:19	50
Ethyl ether	100	U	100		ug/L			03/15/24 14:19	50
1,1,1,2-Tetrachloroethane	50	U	50		ug/L			03/15/24 14:19	50
Acetone	750	U	750		ug/L			03/15/24 14:19	50
Chloroform	50	U	50		ug/L			03/15/24 14:19	50
Benzene	50	U	50		ug/L			03/15/24 14:19	50
1,1,1-Trichloroethane	50	U	50		ug/L			03/15/24 14:19	50
Bromomethane	250	U	250		ug/L			03/15/24 14:19	50
Chloromethane	100	U	100		ug/L			03/15/24 14:19	50
Iodomethane	250	U	250		ug/L			03/15/24 14:19	50
Dibromomethane	50	U	50		ug/L			03/15/24 14:19	50
Chlorobromomethane	50	U	50		ug/L			03/15/24 14:19	50
Chloroethane	200	U	200		ug/L			03/15/24 14:19	50
Vinyl chloride	100	U	100		ug/L			03/15/24 14:19	50

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

Client Sample ID: MPE-01
Lab Sample ID: 280-188659-1
Date Collected: 03/11/24 09:49
Matrix: Water
Date Received: 03/12/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	100	U	100		ug/L			03/15/24 14:19	50
Carbon disulfide	100	U	100		ug/L			03/15/24 14:19	50
Bromoform	100	U	100		ug/L			03/15/24 14:19	50
Dichlorobromomethane	50	U	50		ug/L			03/15/24 14:19	50
1,1-Dichloroethane	50	U	50		ug/L			03/15/24 14:19	50
1,1-Dichloroethene	50	U	50		ug/L			03/15/24 14:19	50
Trichlorofluoromethane	100	U	100		ug/L			03/15/24 14:19	50
Dichlorodifluoromethane	150	U	150		ug/L			03/15/24 14:19	50
1,1,2-Trichloro-1,2,2-trifluoroethane	150	U	150		ug/L			03/15/24 14:19	50
1,2-Dichloropropane	50	U	50		ug/L			03/15/24 14:19	50
2-Butanone (MEK)	750	U	750		ug/L			03/15/24 14:19	50
1,1,2-Trichloroethane	50	U	50		ug/L			03/15/24 14:19	50
Trichloroethene	50	U	50		ug/L			03/15/24 14:19	50
Methyl acetate	250	U	250		ug/L			03/15/24 14:19	50
1,1,2,2-Tetrachloroethane	50	U	50		ug/L			03/15/24 14:19	50
1,2,3-Trichlorobenzene	100	U	100		ug/L			03/15/24 14:19	50
Hexachlorobutadiene	100	U	100		ug/L			03/15/24 14:19	50
Naphthalene	100	U	100		ug/L			03/15/24 14:19	50
o-Xylene	50	U	50		ug/L			03/15/24 14:19	50
2-Chlorotoluene	50	U	50		ug/L			03/15/24 14:19	50
1,2-Dichlorobenzene	50	U	50		ug/L			03/15/24 14:19	50
1,2,4-Trimethylbenzene	50	U	50		ug/L			03/15/24 14:19	50
1,2-Dibromo-3-Chloropropane	250	U	250		ug/L			03/15/24 14:19	50
1,2,3-Trichloropropane	130	U	130		ug/L			03/15/24 14:19	50
Ethyl methacrylate	150	U	150		ug/L			03/15/24 14:19	50
tert-Butylbenzene	50	U	50		ug/L			03/15/24 14:19	50
Isopropylbenzene	50	U	50		ug/L			03/15/24 14:19	50
4-Isopropyltoluene	50	U	50		ug/L			03/15/24 14:19	50
Xylenes, Total	50	U	50		ug/L			03/15/24 14:19	50
1,2-Dichloroethene, Total	50	U	50		ug/L			03/15/24 14:19	50
1,3-Dichloropropene, Total	100	U	100		ug/L			03/15/24 14:19	50
Trihalomethanes, Total	50	U	50		ug/L			03/15/24 14:19	50
Total BTEX	50	U	50		ug/L			03/15/24 14:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 127*		*03/15/24 14:19*	*50*
Dibromofluoromethane (Surr)	*94*		*77 - 120*		*03/15/24 14:19*	*50*
Toluene-d8 (Surr)	*93*		*80 - 125*		*03/15/24 14:19*	*50*
4-Bromofluorobenzene (Surr)	*90*		*78 - 120*		*03/15/24 14:19*	*50*

Client Sample ID: MPE-02
Lab Sample ID: 280-188659-2
Date Collected: 03/11/24 10:02
Matrix: Water
Date Received: 03/12/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/15/24 14:41	1
Styrene	1.0	U	1.0		ug/L			03/15/24 14:41	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/15/24 14:41	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/15/24 14:41	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/15/24 14:41	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/15/24 14:41	1

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

Client Sample ID: MPE-02
Date Collected: 03/11/24 10:02
Date Received: 03/12/24 08:00

Lab Sample ID: 280-188659-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	1.0	U	1.0		ug/L			03/15/24 14:41	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/15/24 14:41	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/15/24 14:41	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/15/24 14:41	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/15/24 14:41	1
Acrylonitrile	20	U	20		ug/L			03/15/24 14:41	1
Vinyl acetate	3.0	U	3.0		ug/L			03/15/24 14:41	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/15/24 14:41	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/15/24 14:41	1
Bromobenzene	1.0	U	1.0		ug/L			03/15/24 14:41	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/15/24 14:41	1
Toluene	1.0	U	1.0		ug/L			03/15/24 14:41	1
Chlorobenzene	1.0	U	1.0		ug/L			03/15/24 14:41	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/15/24 14:41	1
Hexane	2.0	U	2.0		ug/L			03/15/24 14:41	1
Cyclohexane	1.0	U	1.0		ug/L			03/15/24 14:41	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/15/24 14:41	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/15/24 14:41	1
Tetrachloroethene	**140**		1.0		ug/L			03/15/24 14:41	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/15/24 14:41	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/15/24 14:41	1
cis-1,2-Dichloroethene	**6.8**		1.0		ug/L			03/15/24 14:41	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/15/24 14:41	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/15/24 14:41	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/15/24 14:41	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/15/24 14:41	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/15/24 14:41	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/15/24 14:41	1
2-Hexanone	5.0	U	5.0		ug/L			03/15/24 14:41	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/15/24 14:41	1
Ethyl ether	2.0	U	2.0		ug/L			03/15/24 14:41	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/15/24 14:41	1
Acetone	**79**		15		ug/L			03/15/24 14:41	1
Chloroform	1.0	U	1.0		ug/L			03/15/24 14:41	1
Benzene	1.0	U	1.0		ug/L			03/15/24 14:41	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/15/24 14:41	1
Bromomethane	5.0	U	5.0		ug/L			03/15/24 14:41	1
Chloromethane	2.0	U	2.0		ug/L			03/15/24 14:41	1
Iodomethane	5.0	U	5.0		ug/L			03/15/24 14:41	1
Dibromomethane	1.0	U	1.0		ug/L			03/15/24 14:41	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/15/24 14:41	1
Chloroethane	4.0	U	4.0		ug/L			03/15/24 14:41	1
Vinyl chloride	2.0	U	2.0		ug/L			03/15/24 14:41	1
Methylene Chloride	2.0	U	2.0		ug/L			03/15/24 14:41	1
Carbon disulfide	2.0	U	2.0		ug/L			03/15/24 14:41	1
Bromoform	2.0	U	2.0		ug/L			03/15/24 14:41	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/15/24 14:41	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/15/24 14:41	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/15/24 14:41	1

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

Client Sample ID: MPE-02
Date Collected: 03/11/24 10:02
Date Received: 03/12/24 08:00
Lab Sample ID: 280-188659-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/15/24 14:41	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/15/24 14:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/15/24 14:41	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/15/24 14:41	1
2-Butanone (MEK)	15	U	15		ug/L			03/15/24 14:41	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/15/24 14:41	1
Trichloroethene	**1.2**		1.0		ug/L			03/15/24 14:41	1
Methyl acetate	5.0	U	5.0		ug/L			03/15/24 14:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/15/24 14:41	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/15/24 14:41	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/15/24 14:41	1
Naphthalene	2.0	U	2.0		ug/L			03/15/24 14:41	1
o-Xylene	1.0	U	1.0		ug/L			03/15/24 14:41	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/15/24 14:41	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/15/24 14:41	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/15/24 14:41	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/15/24 14:41	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/15/24 14:41	1
Ethyl methacrylate	3.0	U	3.0		ug/L			03/15/24 14:41	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/15/24 14:41	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/15/24 14:41	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/15/24 14:41	1
Xylenes, Total	1.0	U	1.0		ug/L			03/15/24 14:41	1
1,2-Dichloroethene, Total	**6.8**		1.0		ug/L			03/15/24 14:41	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/15/24 14:41	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/15/24 14:41	1
Total BTEX	1.0	U	1.0		ug/L			03/15/24 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 127*		*03/15/24 14:41*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 120*		*03/15/24 14:41*	*1*
Toluene-d8 (Surr)	*93*		*80 - 125*		*03/15/24 14:41*	*1*
4-Bromofluorobenzene (Surr)	*89*		*78 - 120*		*03/15/24 14:41*	*1*

Client Sample ID: MPE-03
Date Collected: 03/11/24 10:10
Date Received: 03/12/24 08:00
Lab Sample ID: 280-188659-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/15/24 15:02	1
Styrene	1.0	U	1.0		ug/L			03/15/24 15:02	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/15/24 15:02	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/15/24 15:02	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/15/24 15:02	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/15/24 15:02	1
4-Chlorotoluene	1.0	U	1.0		ug/L			03/15/24 15:02	1
1,4-Dichlorobenzene	**1.9**		1.0		ug/L			03/15/24 15:02	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/15/24 15:02	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/15/24 15:02	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/15/24 15:02	1
Acrylonitrile	20	U	20		ug/L			03/15/24 15:02	1

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

Client Sample ID: MPE-03
Date Collected: 03/11/24 10:10
Date Received: 03/12/24 08:00

Lab Sample ID: 280-188659-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	3.0	U	3.0		ug/L			03/15/24 15:02	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/15/24 15:02	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/15/24 15:02	1
Bromobenzene	1.0	U	1.0		ug/L			03/15/24 15:02	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/15/24 15:02	1
Toluene	1.0	U	1.0		ug/L			03/15/24 15:02	1
Chlorobenzene	1.0	U	1.0		ug/L			03/15/24 15:02	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/15/24 15:02	1
Hexane	2.0	U	2.0		ug/L			03/15/24 15:02	1
Cyclohexane	1.0	U	1.0		ug/L			03/15/24 15:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/15/24 15:02	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/15/24 15:02	1
Tetrachloroethene	**100**		1.0		ug/L			03/15/24 15:02	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/15/24 15:02	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/15/24 15:02	1
cis-1,2-Dichloroethene	**2.2**		1.0		ug/L			03/15/24 15:02	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/15/24 15:02	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/15/24 15:02	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/15/24 15:02	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/15/24 15:02	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/15/24 15:02	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/15/24 15:02	1
2-Hexanone	5.0	U	5.0		ug/L			03/15/24 15:02	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/15/24 15:02	1
Ethyl ether	2.0	U	2.0		ug/L			03/15/24 15:02	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/15/24 15:02	1
Acetone	**130**		15		ug/L			03/15/24 15:02	1
Chloroform	1.0	U	1.0		ug/L			03/15/24 15:02	1
Benzene	1.0	U	1.0		ug/L			03/15/24 15:02	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/15/24 15:02	1
Bromomethane	5.0	U	5.0		ug/L			03/15/24 15:02	1
Chloromethane	2.0	U	2.0		ug/L			03/15/24 15:02	1
Iodomethane	5.0	U	5.0		ug/L			03/15/24 15:02	1
Dibromomethane	1.0	U	1.0		ug/L			03/15/24 15:02	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/15/24 15:02	1
Chloroethane	4.0	U	4.0		ug/L			03/15/24 15:02	1
Vinyl chloride	2.0	U	2.0		ug/L			03/15/24 15:02	1
Methylene Chloride	2.0	U	2.0		ug/L			03/15/24 15:02	1
Carbon disulfide	2.0	U	2.0		ug/L			03/15/24 15:02	1
Bromoform	2.0	U	2.0		ug/L			03/15/24 15:02	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/15/24 15:02	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/15/24 15:02	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/15/24 15:02	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/15/24 15:02	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/15/24 15:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/15/24 15:02	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/15/24 15:02	1
2-Butanone (MEK)	15	U	15		ug/L			03/15/24 15:02	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/15/24 15:02	1

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

Client Sample ID: MPE-03
Date Collected: 03/11/24 10:10
Date Received: 03/12/24 08:00
Lab Sample ID: 280-188659-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**1.6**		1.0		ug/L			03/15/24 15:02	1
Methyl acetate	5.0	U	5.0		ug/L			03/15/24 15:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/15/24 15:02	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/15/24 15:02	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/15/24 15:02	1
Naphthalene	2.0	U	2.0		ug/L			03/15/24 15:02	1
o-Xylene	1.0	U	1.0		ug/L			03/15/24 15:02	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/15/24 15:02	1
1,2-Dichlorobenzene	**23**		1.0		ug/L			03/15/24 15:02	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/15/24 15:02	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/15/24 15:02	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/15/24 15:02	1
Ethyl methacrylate	3.0	U	3.0		ug/L			03/15/24 15:02	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/15/24 15:02	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/15/24 15:02	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/15/24 15:02	1
Xylenes, Total	1.0	U	1.0		ug/L			03/15/24 15:02	1
1,2-Dichloroethene, Total	**2.2**		1.0		ug/L			03/15/24 15:02	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/15/24 15:02	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/15/24 15:02	1
Total BTEX	1.0	U	1.0		ug/L			03/15/24 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 127*		*03/15/24 15:02*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*03/15/24 15:02*	*1*
Toluene-d8 (Surr)	*93*		*80 - 125*		*03/15/24 15:02*	*1*
4-Bromofluorobenzene (Surr)	*90*		*78 - 120*		*03/15/24 15:02*	*1*

Client Sample ID: MPE-04
Date Collected: 03/11/24 10:18
Date Received: 03/12/24 08:00
Lab Sample ID: 280-188659-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/15/24 15:24	1
Styrene	1.0	U	1.0		ug/L			03/15/24 15:24	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/15/24 15:24	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/15/24 15:24	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/15/24 15:24	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/15/24 15:24	1
4-Chlorotoluene	1.0	U	1.0		ug/L			03/15/24 15:24	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/15/24 15:24	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/15/24 15:24	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/15/24 15:24	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/15/24 15:24	1
Acrylonitrile	20	U	20		ug/L			03/15/24 15:24	1
Vinyl acetate	3.0	U	3.0		ug/L			03/15/24 15:24	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/15/24 15:24	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/15/24 15:24	1
Bromobenzene	1.0	U	1.0		ug/L			03/15/24 15:24	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/15/24 15:24	1
Toluene	1.0	U	1.0		ug/L			03/15/24 15:24	1

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

Client Sample ID: MPE-04
Date Collected: 03/11/24 10:18
Date Received: 03/12/24 08:00

Lab Sample ID: 280-188659-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0		ug/L			03/15/24 15:24	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/15/24 15:24	1
Hexane	2.0	U	2.0		ug/L			03/15/24 15:24	1
Cyclohexane	1.0	U	1.0		ug/L			03/15/24 15:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/15/24 15:24	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/15/24 15:24	1
Tetrachloroethene	**49**		1.0		ug/L			03/15/24 15:24	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/15/24 15:24	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/15/24 15:24	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/15/24 15:24	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/15/24 15:24	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/15/24 15:24	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/15/24 15:24	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/15/24 15:24	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/15/24 15:24	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/15/24 15:24	1
2-Hexanone	5.0	U	5.0		ug/L			03/15/24 15:24	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/15/24 15:24	1
Ethyl ether	2.0	U	2.0		ug/L			03/15/24 15:24	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/15/24 15:24	1
Acetone	**190**		15		ug/L			03/15/24 15:24	1
Chloroform	1.0	U	1.0		ug/L			03/15/24 15:24	1
Benzene	1.0	U	1.0		ug/L			03/15/24 15:24	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/15/24 15:24	1
Bromomethane	5.0	U	5.0		ug/L			03/15/24 15:24	1
Chloromethane	2.0	U	2.0		ug/L			03/15/24 15:24	1
Iodomethane	5.0	U	5.0		ug/L			03/15/24 15:24	1
Dibromomethane	1.0	U	1.0		ug/L			03/15/24 15:24	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/15/24 15:24	1
Chloroethane	4.0	U	4.0		ug/L			03/15/24 15:24	1
Vinyl chloride	2.0	U	2.0		ug/L			03/15/24 15:24	1
Methylene Chloride	2.0	U	2.0		ug/L			03/15/24 15:24	1
Carbon disulfide	2.0	U	2.0		ug/L			03/15/24 15:24	1
Bromoform	2.0	U	2.0		ug/L			03/15/24 15:24	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/15/24 15:24	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/15/24 15:24	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/15/24 15:24	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/15/24 15:24	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/15/24 15:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/15/24 15:24	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/15/24 15:24	1
2-Butanone (MEK)	**15**		15		ug/L			03/15/24 15:24	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/15/24 15:24	1
Trichloroethene	1.0	U	1.0		ug/L			03/15/24 15:24	1
Methyl acetate	5.0	U	5.0		ug/L			03/15/24 15:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/15/24 15:24	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/15/24 15:24	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/15/24 15:24	1
Naphthalene	2.0	U	2.0		ug/L			03/15/24 15:24	1

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

Client Sample ID: MPE-04
Date Collected: 03/11/24 10:18
Date Received: 03/12/24 08:00
Lab Sample ID: 280-188659-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	1.0	U	1.0		ug/L			03/15/24 15:24	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/15/24 15:24	1
1,2-Dichlorobenzene	5.0		1.0		ug/L			03/15/24 15:24	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/15/24 15:24	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/15/24 15:24	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/15/24 15:24	1
Ethyl methacrylate	3.0	U	3.0		ug/L			03/15/24 15:24	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/15/24 15:24	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/15/24 15:24	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/15/24 15:24	1
Xylenes, Total	1.0	U	1.0		ug/L			03/15/24 15:24	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			03/15/24 15:24	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/15/24 15:24	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/15/24 15:24	1
Total BTEX	1.0	U	1.0		ug/L			03/15/24 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 127*		*03/15/24 15:24*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 120*		*03/15/24 15:24*	*1*
Toluene-d8 (Surr)	*92*		*80 - 125*		*03/15/24 15:24*	*1*
4-Bromofluorobenzene (Surr)	*89*		*78 - 120*		*03/15/24 15:24*	*1*

Client Sample ID: Trip Blank
Date Collected: 03/11/24 00:00
Date Received: 03/12/24 08:00
Lab Sample ID: 280-188659-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/15/24 09:38	1
Styrene	1.0	U	1.0		ug/L			03/15/24 09:38	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/15/24 09:38	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/15/24 09:38	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/15/24 09:38	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/15/24 09:38	1
4-Chlorotoluene	1.0	U	1.0		ug/L			03/15/24 09:38	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/15/24 09:38	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/15/24 09:38	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/15/24 09:38	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/15/24 09:38	1
Acrylonitrile	20	U	20		ug/L			03/15/24 09:38	1
Vinyl acetate	3.0	U	3.0		ug/L			03/15/24 09:38	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/15/24 09:38	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/15/24 09:38	1
Bromobenzene	1.0	U	1.0		ug/L			03/15/24 09:38	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/15/24 09:38	1
Toluene	1.0	U	1.0		ug/L			03/15/24 09:38	1
Chlorobenzene	1.0	U	1.0		ug/L			03/15/24 09:38	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/15/24 09:38	1
Hexane	2.0	U	2.0		ug/L			03/15/24 09:38	1
Cyclohexane	1.0	U	1.0		ug/L			03/15/24 09:38	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/15/24 09:38	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/15/24 09:38	1

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

Client Sample ID: Trip Blank
Date Collected: 03/11/24 00:00
Date Received: 03/12/24 08:00

Lab Sample ID: 280-188659-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0		ug/L			03/15/24 09:38	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/15/24 09:38	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/15/24 09:38	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/15/24 09:38	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/15/24 09:38	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/15/24 09:38	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/15/24 09:38	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/15/24 09:38	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/15/24 09:38	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/15/24 09:38	1
2-Hexanone	5.0	U	5.0		ug/L			03/15/24 09:38	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/15/24 09:38	1
Ethyl ether	2.0	U	2.0		ug/L			03/15/24 09:38	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/15/24 09:38	1
Acetone	15	U	15		ug/L			03/15/24 09:38	1
Chloroform	1.0	U	1.0		ug/L			03/15/24 09:38	1
Benzene	1.0	U	1.0		ug/L			03/15/24 09:38	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/15/24 09:38	1
Bromomethane	5.0	U	5.0		ug/L			03/15/24 09:38	1
Chloromethane	2.0	U	2.0		ug/L			03/15/24 09:38	1
Iodomethane	5.0	U	5.0		ug/L			03/15/24 09:38	1
Dibromomethane	1.0	U	1.0		ug/L			03/15/24 09:38	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/15/24 09:38	1
Chloroethane	4.0	U	4.0		ug/L			03/15/24 09:38	1
Vinyl chloride	2.0	U	2.0		ug/L			03/15/24 09:38	1
Methylene Chloride	2.0	U	2.0		ug/L			03/15/24 09:38	1
Carbon disulfide	2.0	U	2.0		ug/L			03/15/24 09:38	1
Bromoform	2.0	U	2.0		ug/L			03/15/24 09:38	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/15/24 09:38	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/15/24 09:38	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/15/24 09:38	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/15/24 09:38	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/15/24 09:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/15/24 09:38	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/15/24 09:38	1
2-Butanone (MEK)	15	U	15		ug/L			03/15/24 09:38	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/15/24 09:38	1
Trichloroethene	1.0	U	1.0		ug/L			03/15/24 09:38	1
Methyl acetate	5.0	U	5.0		ug/L			03/15/24 09:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/15/24 09:38	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/15/24 09:38	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/15/24 09:38	1
Naphthalene	2.0	U	2.0		ug/L			03/15/24 09:38	1
o-Xylene	1.0	U	1.0		ug/L			03/15/24 09:38	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/15/24 09:38	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/15/24 09:38	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/15/24 09:38	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/15/24 09:38	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/15/24 09:38	1

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

Client Sample ID: Trip Blank
Lab Sample ID: 280-188659-5
Date Collected: 03/11/24 00:00
Matrix: Water
Date Received: 03/12/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	**3.0**	**U**	3.0		ug/L			**03/15/24 09:38**	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/15/24 09:38	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/15/24 09:38	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/15/24 09:38	1
Xylenes, Total	1.0	U	1.0		ug/L			03/15/24 09:38	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			03/15/24 09:38	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/15/24 09:38	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/15/24 09:38	1
Total BTEX	1.0	U	1.0		ug/L			03/15/24 09:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 127*		*03/15/24 09:38*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*03/15/24 09:38*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*03/15/24 09:38*	*1*
4-Bromofluorobenzene (Surr)	*91*		*78 - 120*		*03/15/24 09:38*	*1*

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-188659-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-127)	(77-120)	(80-125)	(78-120)
280-188659-1	MPE-01	85	94	93	90
280-188659-2	MPE-02	86	94	93	89
280-188659-3	MPE-03	86	96	93	90
280-188659-4	MPE-04	86	94	92	89
280-188659-5	Trip Blank	87	96	96	91
LCS 280-646012/4	Lab Control Sample	85	96	91	93
LCSD 280-646012/5	Lab Control Sample Dup	86	96	95	90
MB 280-646012/9	Method Blank	83	94	95	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-646012/9
Matrix: Water
Analysis Batch: 646012

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/15/24 08:22	1
Styrene	1.0	U	1.0		ug/L			03/15/24 08:22	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/15/24 08:22	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/15/24 08:22	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/15/24 08:22	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/15/24 08:22	1
4-Chlorotoluene	1.0	U	1.0		ug/L			03/15/24 08:22	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/15/24 08:22	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/15/24 08:22	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/15/24 08:22	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/15/24 08:22	1
Acrylonitrile	20	U	20		ug/L			03/15/24 08:22	1
Vinyl acetate	3.0	U	3.0		ug/L			03/15/24 08:22	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/15/24 08:22	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/15/24 08:22	1
Bromobenzene	1.0	U	1.0		ug/L			03/15/24 08:22	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/15/24 08:22	1
Toluene	1.0	U	1.0		ug/L			03/15/24 08:22	1
Chlorobenzene	1.0	U	1.0		ug/L			03/15/24 08:22	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/15/24 08:22	1
Hexane	2.0	U	2.0		ug/L			03/15/24 08:22	1
Cyclohexane	1.0	U	1.0		ug/L			03/15/24 08:22	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/15/24 08:22	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/15/24 08:22	1
Tetrachloroethene	1.0	U	1.0		ug/L			03/15/24 08:22	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/15/24 08:22	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/15/24 08:22	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/15/24 08:22	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/15/24 08:22	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/15/24 08:22	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/15/24 08:22	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/15/24 08:22	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/15/24 08:22	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/15/24 08:22	1
2-Hexanone	5.0	U	5.0		ug/L			03/15/24 08:22	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/15/24 08:22	1
Ethyl ether	2.0	U	2.0		ug/L			03/15/24 08:22	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/15/24 08:22	1
Acetone	15	U	15		ug/L			03/15/24 08:22	1
Chloroform	1.0	U	1.0		ug/L			03/15/24 08:22	1
Benzene	1.0	U	1.0		ug/L			03/15/24 08:22	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/15/24 08:22	1
Bromomethane	5.0	U	5.0		ug/L			03/15/24 08:22	1
Chloromethane	2.0	U	2.0		ug/L			03/15/24 08:22	1
Iodomethane	5.0	U	5.0		ug/L			03/15/24 08:22	1
Dibromomethane	1.0	U	1.0		ug/L			03/15/24 08:22	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/15/24 08:22	1
Chloroethane	4.0	U	4.0		ug/L			03/15/24 08:22	1

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

Lab Sample ID: MB 280-646012/9
Matrix: Water
Analysis Batch: 646012

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0		ug/L			03/15/24 08:22	1
Methylene Chloride	2.0	U	2.0		ug/L			03/15/24 08:22	1
Carbon disulfide	2.0	U	2.0		ug/L			03/15/24 08:22	1
Bromoform	2.0	U	2.0		ug/L			03/15/24 08:22	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/15/24 08:22	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/15/24 08:22	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/15/24 08:22	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/15/24 08:22	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/15/24 08:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/15/24 08:22	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/15/24 08:22	1
2-Butanone (MEK)	15	U	15		ug/L			03/15/24 08:22	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/15/24 08:22	1
Trichloroethene	1.0	U	1.0		ug/L			03/15/24 08:22	1
Methyl acetate	5.0	U	5.0		ug/L			03/15/24 08:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/15/24 08:22	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/15/24 08:22	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/15/24 08:22	1
Naphthalene	2.0	U	2.0		ug/L			03/15/24 08:22	1
o-Xylene	1.0	U	1.0		ug/L			03/15/24 08:22	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/15/24 08:22	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/15/24 08:22	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/15/24 08:22	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/15/24 08:22	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/15/24 08:22	1
Ethyl methacrylate	3.0	U	3.0		ug/L			03/15/24 08:22	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/15/24 08:22	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/15/24 08:22	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/15/24 08:22	1
Xylenes, Total	1.0	U	1.0		ug/L			03/15/24 08:22	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			03/15/24 08:22	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/15/24 08:22	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/15/24 08:22	1
Total BTEX	1.0	U	1.0		ug/L			03/15/24 08:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 127*		*03/15/24 08:22*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 120*		*03/15/24 08:22*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*03/15/24 08:22*	*1*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*		*03/15/24 08:22*	*1*

Lab Sample ID: LCS 280-646012/4
Matrix: Water
Analysis Batch: 646012

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	52.2		ug/L		104	76 - 121
Styrene	50.0	51.8		ug/L		104	79 - 120

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

Lab Sample ID: LCS 280-646012/4
Matrix: Water
Analysis Batch: 646012

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	50.0	49.2		ug/L		98	75 - 120
trans-1,3-Dichloropropene	50.0	49.1		ug/L		98	66 - 127
N-Propylbenzene	50.0	51.6		ug/L		103	73 - 127
n-Butylbenzene	50.0	49.3		ug/L		99	69 - 130
4-Chlorotoluene	50.0	53.5		ug/L		107	74 - 124
1,4-Dichlorobenzene	50.0	51.6		ug/L		103	76 - 119
Ethylene Dibromide	50.0	49.1		ug/L		98	81 - 118
3-Chloro-1-propene	50.0	52.0		ug/L		104	57 - 136
1,2-Dichloroethane	50.0	46.2		ug/L		92	61 - 130
Acrylonitrile	500	479		ug/L		96	65 - 133
Vinyl acetate	100	102		ug/L		102	61 - 139
4-Methyl-2-pentanone (MIBK)	200	179		ug/L		89	56 - 135
1,3,5-Trimethylbenzene	50.0	48.8		ug/L		98	73 - 127
Bromobenzene	50.0	50.8		ug/L		102	75 - 122
Methylcyclohexane	50.0	46.1		ug/L		92	58 - 136
Toluene	50.0	49.2		ug/L		98	68 - 127
Chlorobenzene	50.0	51.1		ug/L		102	78 - 118
Tetrahydrofuran	100	93.2		ug/L		93	50 - 139
Hexane	50.0	45.0		ug/L		90	52 - 139
Cyclohexane	50.0	47.0		ug/L		94	57 - 134
1,2,4-Trichlorobenzene	50.0	48.5		ug/L		97	73 - 124
Chlorodibromomethane	50.0	50.7		ug/L		101	71 - 122
Tetrachloroethene	50.0	51.4		ug/L		103	72 - 127
sec-Butylbenzene	50.0	52.6		ug/L		105	72 - 127
1,3-Dichloropropane	50.0	47.8		ug/L		96	80 - 118
cis-1,2-Dichloroethene	50.0	55.9		ug/L		112	69 - 126
trans-1,2-Dichloroethene	50.0	55.1		ug/L		110	66 - 129
Methyl tert-butyl ether	50.0	48.8		ug/L		98	70 - 127
m-Xylene & p-Xylene	50.0	52.1		ug/L		104	76 - 122
1,3-Dichlorobenzene	50.0	51.5		ug/L		103	76 - 121
Carbon tetrachloride	50.0	47.0		ug/L		94	60 - 133
1,1-Dichloropropene	50.0	49.9		ug/L		100	64 - 133
2-Hexanone	200	169		ug/L		84	58 - 134
2,2-Dichloropropane	50.0	49.9		ug/L		100	57 - 140
Ethyl ether	50.0	54.5		ug/L		109	66 - 129
1,1,1,2-Tetrachloroethane	50.0	50.5		ug/L		101	74 - 121
Acetone	200	180		ug/L		90	50 - 137
Chloroform	50.0	48.4		ug/L		97	68 - 128
Benzene	50.0	51.5		ug/L		103	69 - 126
1,1,1-Trichloroethane	50.0	46.8		ug/L		94	62 - 132
Bromomethane	50.0	45.6		ug/L		91	25 - 163
Chloromethane	50.0	49.4		ug/L		99	43 - 142
Iodomethane	50.0	53.6		ug/L		107	37 - 145
Dibromomethane	50.0	51.6		ug/L		103	68 - 129
Chlorobromomethane	50.0	60.3		ug/L		121	71 - 130
Chloroethane	50.0	56.2		ug/L		112	52 - 144
Vinyl chloride	50.0	53.5		ug/L		107	53 - 141
Methylene Chloride	50.0	50.1		ug/L		100	64 - 128
Carbon disulfide	50.0	52.5		ug/L		105	56 - 128

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

Lab Sample ID: LCS 280-646012/4
Matrix: Water
Analysis Batch: 646012

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	50.0	49.3		ug/L		99	57 - 125
Dichlorobromomethane	50.0	49.6		ug/L		99	67 - 126
1,1-Dichloroethane	50.0	50.3		ug/L		101	66 - 130
1,1-Dichloroethene	50.0	53.3		ug/L		107	62 - 130
Trichlorofluoromethane	50.0	48.0		ug/L		96	57 - 144
Dichlorodifluoromethane	50.0	43.3		ug/L		87	26 - 152
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.0		ug/L		108	60 - 137
1,2-Dichloropropane	50.0	50.8		ug/L		102	68 - 127
2-Butanone (MEK)	200	167		ug/L		84	53 - 135
1,1,2-Trichloroethane	50.0	53.9		ug/L		108	72 - 128
Trichloroethene	50.0	48.6		ug/L		97	70 - 125
Methyl acetate	100	92.2		ug/L		92	59 - 133
1,1,2,2-Tetrachloroethane	50.0	47.9		ug/L		96	72 - 122
1,2,3-Trichlorobenzene	50.0	44.7		ug/L		89	70 - 127
Hexachlorobutadiene	50.0	46.1		ug/L		92	69 - 133
Naphthalene	50.0	41.9		ug/L		84	63 - 129
o-Xylene	50.0	54.0		ug/L		108	77 - 120
2-Chlorotoluene	50.0	52.3		ug/L		105	75 - 123
1,2-Dichlorobenzene	50.0	49.9		ug/L		100	77 - 121
1,2,4-Trimethylbenzene	50.0	49.7		ug/L		99	74 - 124
1,2-Dibromo-3-Chloropropane	50.0	45.9		ug/L		92	58 - 122
1,2,3-Trichloropropane	50.0	46.6		ug/L		93	74 - 123
Ethyl methacrylate	50.0	46.9		ug/L		94	69 - 126
tert-Butylbenzene	50.0	50.1		ug/L		100	72 - 126
Isopropylbenzene	50.0	49.4		ug/L		99	70 - 127
4-Isopropyltoluene	50.0	49.8		ug/L		100	74 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 127*
Dibromofluoromethane (Surr)	*96*		*77 - 120*
Toluene-d8 (Surr)	*91*		*80 - 125*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*

Lab Sample ID: LCSD 280-646012/5
Matrix: Water
Analysis Batch: 646012

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
Ethylbenzene	50.0	52.8		ug/L		106	76 - 121	1	20
Styrene	50.0	52.0		ug/L		104	79 - 120	0	20
cis-1,3-Dichloropropene	50.0	50.2		ug/L		100	75 - 120	2	20
trans-1,3-Dichloropropene	50.0	49.0		ug/L		98	66 - 127	0	20
N-Propylbenzene	50.0	51.0		ug/L		102	73 - 127	1	20
n-Butylbenzene	50.0	47.7		ug/L		95	69 - 130	3	20
4-Chlorotoluene	50.0	51.4		ug/L		103	74 - 124	4	20
1,4-Dichlorobenzene	50.0	49.6		ug/L		99	76 - 119	4	20
Ethylene Dibromide	50.0	50.5		ug/L		101	81 - 118	3	20
3-Chloro-1-propene	50.0	49.5		ug/L		99	57 - 136	5	20

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

Lab Sample ID: LCSD 280-646012/5
Matrix: Water
Analysis Batch: 646012

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-Dichloroethane	50.0	44.3		ug/L		89	61 - 130	4	20
Acrylonitrile	500	461		ug/L		92	65 - 133	4	20
Vinyl acetate	100	98.1		ug/L		98	61 - 139	4	23
4-Methyl-2-pentanone (MIBK)	200	176		ug/L		88	56 - 135	1	20
1,3,5-Trimethylbenzene	50.0	46.4		ug/L		93	73 - 127	5	20
Bromobenzene	50.0	48.9		ug/L		98	75 - 122	4	20
Methylcyclohexane	50.0	47.0		ug/L		94	58 - 136	2	21
Toluene	50.0	48.2		ug/L		96	68 - 127	2	20
Chlorobenzene	50.0	52.1		ug/L		104	78 - 118	2	20
Tetrahydrofuran	100	89.4		ug/L		89	50 - 139	4	20
Hexane	50.0	48.1		ug/L		96	52 - 139	6	23
Cyclohexane	50.0	47.6		ug/L		95	57 - 134	1	32
1,2,4-Trichlorobenzene	50.0	47.0		ug/L		94	73 - 124	3	20
Chlorodibromomethane	50.0	52.0		ug/L		104	71 - 122	3	20
Tetrachloroethene	50.0	55.4		ug/L		111	72 - 127	8	20
sec-Butylbenzene	50.0	51.4		ug/L		103	72 - 127	2	20
1,3-Dichloropropane	50.0	50.2		ug/L		100	80 - 118	5	20
cis-1,2-Dichloroethene	50.0	53.4		ug/L		107	69 - 126	5	20
trans-1,2-Dichloroethene	50.0	55.3		ug/L		111	66 - 129	0	20
Methyl tert-butyl ether	50.0	47.4		ug/L		95	70 - 127	3	20
m-Xylene & p-Xylene	50.0	52.7		ug/L		105	76 - 122	1	20
1,3-Dichlorobenzene	50.0	49.6		ug/L		99	76 - 121	4	20
Carbon tetrachloride	50.0	46.1		ug/L		92	60 - 133	2	20
1,1-Dichloropropene	50.0	50.5		ug/L		101	64 - 133	1	20
2-Hexanone	200	169		ug/L		85	58 - 134	0	21
2,2-Dichloropropane	50.0	48.9		ug/L		98	57 - 140	2	22
Ethyl ether	50.0	51.9		ug/L		104	66 - 129	5	20
1,1,1,2-Tetrachloroethane	50.0	51.0		ug/L		102	74 - 121	1	20
Acetone	200	174		ug/L		87	50 - 137	4	21
Chloroform	50.0	46.8		ug/L		94	68 - 128	3	20
Benzene	50.0	50.7		ug/L		101	69 - 126	2	20
1,1,1-Trichloroethane	50.0	47.6		ug/L		95	62 - 132	2	20
Bromomethane	50.0	48.4		ug/L		97	25 - 163	6	40
Chloromethane	50.0	46.8		ug/L		94	43 - 142	5	20
Iodomethane	50.0	53.6		ug/L		107	37 - 145	0	38
Dibromomethane	50.0	50.1		ug/L		100	68 - 129	3	20
Chlorobromomethane	50.0	57.4		ug/L		115	71 - 130	5	20
Chloroethane	50.0	53.5		ug/L		107	52 - 144	5	30
Vinyl chloride	50.0	50.7		ug/L		101	53 - 141	5	25
Methylene Chloride	50.0	49.1		ug/L		98	64 - 128	2	20
Carbon disulfide	50.0	51.4		ug/L		103	56 - 128	2	20
Bromoform	50.0	50.0		ug/L		100	57 - 125	2	20
Dichlorobromomethane	50.0	47.3		ug/L		95	67 - 126	5	20
1,1-Dichloroethane	50.0	49.3		ug/L		99	66 - 130	2	20
1,1-Dichloroethene	50.0	53.6		ug/L		107	62 - 130	1	21
Trichlorofluoromethane	50.0	45.9		ug/L		92	57 - 144	5	28
Dichlorodifluoromethane	50.0	41.2		ug/L		82	26 - 152	5	21
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.0		ug/L		106	60 - 137	2	23

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

Lab Sample ID: LCSD 280-646012/5
Matrix: Water
Analysis Batch: 646012

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	49.8		ug/L		100	68 - 127	2	20
2-Butanone (MEK)	200	161		ug/L		81	53 - 135	4	20
1,1,2-Trichloroethane	50.0	53.2		ug/L		106	72 - 128	1	20
Trichloroethene	50.0	50.3		ug/L		101	70 - 125	3	20
Methyl acetate	100	88.0		ug/L		88	59 - 133	5	20
1,1,2,2-Tetrachloroethane	50.0	45.2		ug/L		90	72 - 122	6	20
1,2,3-Trichlorobenzene	50.0	44.6		ug/L		89	70 - 127	0	20
Hexachlorobutadiene	50.0	44.5		ug/L		89	69 - 133	4	20
Naphthalene	50.0	41.3		ug/L		83	63 - 129	1	21
o-Xylene	50.0	52.7		ug/L		105	77 - 120	2	20
2-Chlorotoluene	50.0	49.6		ug/L		99	75 - 123	5	20
1,2-Dichlorobenzene	50.0	47.1		ug/L		94	77 - 121	6	20
1,2,4-Trimethylbenzene	50.0	48.0		ug/L		96	74 - 124	3	20
1,2-Dibromo-3-Chloropropane	50.0	45.3		ug/L		91	58 - 122	1	21
1,2,3-Trichloropropane	50.0	44.7		ug/L		89	74 - 123	4	20
Ethyl methacrylate	50.0	46.9		ug/L		94	69 - 126	0	20
tert-Butylbenzene	50.0	48.9		ug/L		98	72 - 126	3	20
Isopropylbenzene	50.0	48.1		ug/L		96	70 - 127	3	20
4-Isopropyltoluene	50.0	48.5		ug/L		97	74 - 127	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 127*
Dibromofluoromethane (Surr)	*96*		*77 - 120*
Toluene-d8 (Surr)	*95*		*80 - 125*
4-Bromofluorobenzene (Surr)	*90*		*78 - 120*

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-188659-1

GC/MS VOA

Analysis Batch: 646012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-188659-1	MPE-01	Total/NA	Water	8260D	
280-188659-2	MPE-02	Total/NA	Water	8260D	
280-188659-3	MPE-03	Total/NA	Water	8260D	
280-188659-4	MPE-04	Total/NA	Water	8260D	
280-188659-5	Trip Blank	Total/NA	Water	8260D	
MB 280-646012/9	Method Blank	Total/NA	Water	8260D	
LCS 280-646012/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-646012/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-188659-1

Client Sample ID: MPE-01

Date Collected: 03/11/24 09:49
Date Received: 03/12/24 08:00

Lab Sample ID: 280-188659-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	646012	03/15/24 14:19	MD	EET DEN

Client Sample ID: MPE-02

Date Collected: 03/11/24 10:02
Date Received: 03/12/24 08:00

Lab Sample ID: 280-188659-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	646012	03/15/24 14:41	MD	EET DEN

Client Sample ID: MPE-03

Date Collected: 03/11/24 10:10
Date Received: 03/12/24 08:00

Lab Sample ID: 280-188659-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	646012	03/15/24 15:02	MD	EET DEN

Client Sample ID: MPE-04

Date Collected: 03/11/24 10:18
Date Received: 03/12/24 08:00

Lab Sample ID: 280-188659-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	646012	03/15/24 15:24	MD	EET DEN

Client Sample ID: Trip Blank

Date Collected: 03/11/24 00:00
Date Received: 03/12/24 08:00

Lab Sample ID: 280-188659-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	646012	03/15/24 09:38	MD	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Job ID: 280-188659-1
Project/Site: ABC Cleaners, NC

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-24
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins

Client Information	Sampler: Rene Ramos	Lab PM: Norton, Michael R	Carrier Tracking No(s):	COC No:
Client Contact: Sanita Corum	Phone:	E-Mail: Michael.Norton@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 1
Company: EA Engineering, Science, and Technology, Inc., PBC	PWSID:			Job #: 6347505.030000
Address: 225 Schilling Circle Suite 400	Due Date Requested:			
City: Hunt Valley	TAT Requested (days): 5			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-329-5155 (Tel)	PO #: 24987			
Email: northeastap@eaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024283			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D, VOCs, Standard List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N N N N N N N CB B N		
MPE-01	3/11/24	09:49	G	W			X	3	5-Day TAT
MPE-02	3/11/24	10:02	G	W			X	3	5-Day TAT
MPE-03	3/11/24	10:16	G	W			X	3	5-Day TAT
MPE-04	3/11/24	10:19	G	W			X	3	5-Day TAT

280-188659 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
x Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client x Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		03/11-24 / 10:54	TTI		3/12/24 9:00	ET DEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody seal #: 23 98060

Cooler Temperature(s) °C and Other Remarks: 1.9 IR 14 CF 0.1

Ver: 01/16/2019

3/18/2024



280-188659 Waybill

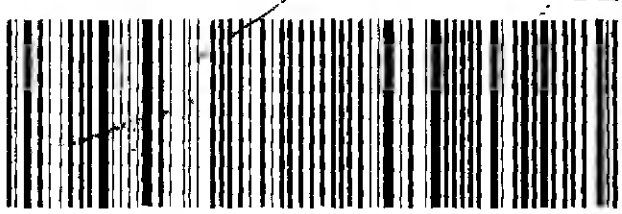
FedEx.

TRK# 0200 8172 9130 5523

TUE - 12 MAR 8:30A
FIRST OVERNIGHT
DSR

X1 LAAA

80002
CO-US
DEN



BI6238_11Mar2024_EWNA 581G2/8638/C088

Custody Seal

SIGNATURE

DATE

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2398060

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 280-188659-1

Login Number: 188659
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Headspace larger than 1/4" in one or more vials, one vial with accpt. headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Sanita Corum
EA Engineering, Science, and Technology
225 Schilling Circle
Suite 400
Hunt Valley, Maryland 21031
Generated 3/27/2024 9:32:59 AM

JOB DESCRIPTION

ABC Cleaners, NC

JOB NUMBER

280-189130-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

myEOL

Eurofins Denver

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 TestAmerica Project Manager.

Authorization

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3/27/2024 9:32:59 AM

Authorized for release by
Michael Norton, Project Manager I
Michael.Norton@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Job ID: 280-189130-1
Project/Site: ABC Cleaners, NC

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-189130-1 — Eurofins Denver

Job Narrative
280-189130-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/22/2024 8:15 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 5.4°C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received. The sample collection times were not recorded on the COC. Logged per the sample containers received.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MPE-01 DUP (280-189130-17). The container labels list MPE-01, while the COC lists MPE-01 DUP. Logged per the COC.

GC/MS VOA
Method 8260D: The method requirement for no headspace was not met. The following volatile samples were analyzed with significant headspace in the sample container(s): MPE-01 (280-189130-1), MPE-02 (280-189130-2), MPE-03 (280-189130-3), MPE-04 (280-189130-4), MPE-05 (280-189130-5), MPE-06 (280-189130-6), MPE-15 (280-189130-14), MPE-16 (280-189130-15) and MPE-01 DUP (280-189130-17). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-647102 recovered above the upper control limit (20%D) for Chlorobromomethane (22.0%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. MPE-01 (280-189130-1), MPE-02 (280-189130-2), MPE-03 (280-189130-3), MPE-04 (280-189130-4), MPE-05 (280-189130-5), MPE-06 (280-189130-6), MPE-08 (280-189130-7), MPE-09 (280-189130-8), MPE-10 (280-189130-9), Trip Blank (280-189130-10), MPE-11 (280-189130-11), MPE-12 (280-189130-12), MPE-13 (280-189130-13), MPE-15 (280-189130-14), MPE-16 (280-189130-15), Trip Blank (280-189130-16), MPE-01 DUP (280-189130-17), (CCV 280-647102/2) and (280-188841-C-4)

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-647102 recovered outside the control limit of 20%D for Dichlorodifluoromethane (-27.8%D). This analyte is a poor performer. The LCS/LCSD recovered within control limits therefore the data were reported. MPE-01 (280-189130-1), MPE-02 (280-189130-2), MPE-03 (280-189130-3), MPE-04 (280-189130-4), MPE-05 (280-189130-5), MPE-06 (280-189130-6), MPE-08 (280-189130-7), MPE-09 (280-189130-8), MPE-10 (280-189130-9), Trip Blank (280-189130-10), MPE-11 (280-189130-11), MPE-12 (280-189130-12), MPE-13 (280-189130-13), MPE-15 (280-189130-14), MPE-16 (280-189130-15), Trip Blank (280-189130-16), MPE-01 DUP (280-189130-17), (CCV 280-647102/2) and (280-188841-C-4)

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

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189130-1

Client Sample ID: MPE-01

Lab Sample ID: 280-189130-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	6200		50		ug/L	50		8260D	Total/NA
Trichloroethene	190		50		ug/L	50		8260D	Total/NA

Client Sample ID: MPE-02

Lab Sample ID: 280-189130-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	97		1.0		ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.2		1.0		ug/L	1		8260D	Total/NA
Acetone	26		15		ug/L	1		8260D	Total/NA
Trichloroethene	1.4		1.0		ug/L	1		8260D	Total/NA
1,2-Dichloroethene, Total	2.2		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MPE-03

Lab Sample ID: 280-189130-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	480		4.0		ug/L	4		8260D	Total/NA
Acetone	84		60		ug/L	4		8260D	Total/NA
Trichloroethene	7.0		4.0		ug/L	4		8260D	Total/NA

Client Sample ID: MPE-04

Lab Sample ID: 280-189130-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	58		1.0		ug/L	1		8260D	Total/NA
Acetone	73		15		ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	1.2		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MPE-05

Lab Sample ID: 280-189130-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	28		2.0		ug/L	2		8260D	Total/NA
Acetone	440		30		ug/L	2		8260D	Total/NA
2-Butanone (MEK)	31		30		ug/L	2		8260D	Total/NA

Client Sample ID: MPE-06

Lab Sample ID: 280-189130-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	60		1.0		ug/L	1		8260D	Total/NA
Acetone	150		15		ug/L	1		8260D	Total/NA

Client Sample ID: MPE-08

Lab Sample ID: 280-189130-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	150		1.0		ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	7.9		1.0		ug/L	1		8260D	Total/NA
Acetone	110		15		ug/L	1		8260D	Total/NA
Trichloroethene	4.2		1.0		ug/L	1		8260D	Total/NA
1,2-Dichloroethene, Total	7.9		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MPE-09

Lab Sample ID: 280-189130-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	4300		40		ug/L	40		8260D	Total/NA
cis-1,2-Dichloroethene	110		40		ug/L	40		8260D	Total/NA
Trichloroethene	160		40		ug/L	40		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MPE-09 (Continued)
Lab Sample ID: 280-189130-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	110		40		ug/L	40		8260D	Total/NA

Client Sample ID: MPE-10
Lab Sample ID: 280-189130-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	150		1.0		ug/L	1		8260D	Total/NA
Acetone	47		15		ug/L	1		8260D	Total/NA
Trichloroethene	2.5		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: Trip Blank
Lab Sample ID: 280-189130-10

No Detections.

Client Sample ID: MPE-11
Lab Sample ID: 280-189130-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	670		4.0		ug/L	4		8260D	Total/NA
cis-1,2-Dichloroethene	4.7		4.0		ug/L	4		8260D	Total/NA
Acetone	120		60		ug/L	4		8260D	Total/NA
Trichloroethene	11		4.0		ug/L	4		8260D	Total/NA
1,2-Dichloroethene, Total	4.7		4.0		ug/L	4		8260D	Total/NA

Client Sample ID: MPE-12
Lab Sample ID: 280-189130-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	130		1.0		ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	9.5		1.0		ug/L	1		8260D	Total/NA
Acetone	130		15		ug/L	1		8260D	Total/NA
Trichloroethene	5.2		1.0		ug/L	1		8260D	Total/NA
1,2-Dichloroethene, Total	9.5		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MPE-13
Lab Sample ID: 280-189130-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	26		1.0		ug/L	1		8260D	Total/NA
Acetone	180		15		ug/L	1		8260D	Total/NA

Client Sample ID: MPE-15
Lab Sample ID: 280-189130-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	82		1.0		ug/L	1		8260D	Total/NA
Acetone	89		15		ug/L	1		8260D	Total/NA
Trichloroethene	1.0		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MPE-16
Lab Sample ID: 280-189130-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	35		1.0		ug/L	1		8260D	Total/NA
Acetone	52		15		ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	1.4		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: Trip Blank
Lab Sample ID: 280-189130-16

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MPE-01 DUP
Lab Sample ID: 280-189130-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	5400		50		ug/L	**50**		**8260D**	Total/NA
Trichloroethene	170		50		ug/L	**50**		**8260D**	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189130-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189130-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-189130-1	MPE-01	Water	03/21/24 12:44	03/22/24 08:15
280-189130-2	MPE-02	Water	03/21/24 12:54	03/22/24 08:15
280-189130-3	MPE-03	Water	03/21/24 13:35	03/22/24 08:15
280-189130-4	MPE-04	Water	03/21/24 13:59	03/22/24 08:15
280-189130-5	MPE-05	Water	03/21/24 14:10	03/22/24 08:15
280-189130-6	MPE-06	Water	03/21/24 13:54	03/22/24 08:15
280-189130-7	MPE-08	Water	03/21/24 13:29	03/22/24 08:15
280-189130-8	MPE-09	Water	03/21/24 12:36	03/22/24 08:15
280-189130-9	MPE-10	Water	03/21/24 13:04	03/22/24 08:15
280-189130-10	Trip Blank	Water	03/21/24 14:50	03/22/24 08:15
280-189130-11	MPE-11	Water	03/21/24 12:28	03/22/24 08:15
280-189130-12	MPE-12	Water	03/21/24 11:41	03/22/24 08:15
280-189130-13	MPE-13	Water	03/21/24 13:21	03/22/24 08:15
280-189130-14	MPE-15	Water	03/21/24 13:46	03/22/24 08:15
280-189130-15	MPE-16	Water	03/21/24 14:05	03/22/24 08:15
280-189130-16	Trip Blank	Water	03/21/24 14:50	03/22/24 08:15
280-189130-17	MPE-01 DUP	Water	03/21/24 12:44	03/22/24 08:15

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

Client Sample ID: MPE-01
Date Collected: 03/21/24 12:44
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	50	U	50		ug/L			03/26/24 15:49	50
Styrene	50	U	50		ug/L			03/26/24 15:49	50
cis-1,3-Dichloropropene	100	U	100		ug/L			03/26/24 15:49	50
trans-1,3-Dichloropropene	100	U	100		ug/L			03/26/24 15:49	50
N-Propylbenzene	50	U	50		ug/L			03/26/24 15:49	50
n-Butylbenzene	50	U	50		ug/L			03/26/24 15:49	50
4-Chlorotoluene	50	U	50		ug/L			03/26/24 15:49	50
1,4-Dichlorobenzene	50	U	50		ug/L			03/26/24 15:49	50
Ethylene Dibromide	50	U	50		ug/L			03/26/24 15:49	50
3-Chloro-1-propene	100	U	100		ug/L			03/26/24 15:49	50
1,2-Dichloroethane	50	U	50		ug/L			03/26/24 15:49	50
Acrylonitrile	1000	U	1000		ug/L			03/26/24 15:49	50
Vinyl acetate	150	U	150		ug/L			03/26/24 15:49	50
4-Methyl-2-pentanone (MIBK)	250	U	250		ug/L			03/26/24 15:49	50
1,3,5-Trimethylbenzene	50	U	50		ug/L			03/26/24 15:49	50
Bromobenzene	50	U	50		ug/L			03/26/24 15:49	50
Methylcyclohexane	50	U	50		ug/L			03/26/24 15:49	50
Toluene	50	U	50		ug/L			03/26/24 15:49	50
Chlorobenzene	50	U	50		ug/L			03/26/24 15:49	50
Tetrahydrofuran	350	U	350		ug/L			03/26/24 15:49	50
Hexane	100	U	100		ug/L			03/26/24 15:49	50
Cyclohexane	50	U	50		ug/L			03/26/24 15:49	50
1,2,4-Trichlorobenzene	50	U	50		ug/L			03/26/24 15:49	50
Chlorodibromomethane	100	U	100		ug/L			03/26/24 15:49	50
Tetrachloroethene	**6200**		50		ug/L			03/26/24 15:49	50
sec-Butylbenzene	50	U	50		ug/L			03/26/24 15:49	50
1,3-Dichloropropane	50	U	50		ug/L			03/26/24 15:49	50
cis-1,2-Dichloroethene	50	U	50		ug/L			03/26/24 15:49	50
trans-1,2-Dichloroethene	50	U	50		ug/L			03/26/24 15:49	50
Methyl tert-butyl ether	250	U	250		ug/L			03/26/24 15:49	50
m-Xylene & p-Xylene	100	U	100		ug/L			03/26/24 15:49	50
1,3-Dichlorobenzene	50	U	50		ug/L			03/26/24 15:49	50
Carbon tetrachloride	50	U	50		ug/L			03/26/24 15:49	50
1,1-Dichloropropene	50	U	50		ug/L			03/26/24 15:49	50
2-Hexanone	250	U	250		ug/L			03/26/24 15:49	50
2,2-Dichloropropane	50	U	50		ug/L			03/26/24 15:49	50
Ethyl ether	100	U	100		ug/L			03/26/24 15:49	50
1,1,1,2-Tetrachloroethane	50	U	50		ug/L			03/26/24 15:49	50
Acetone	750	U	750		ug/L			03/26/24 15:49	50
Chloroform	50	U	50		ug/L			03/26/24 15:49	50
Benzene	50	U	50		ug/L			03/26/24 15:49	50
1,1,1-Trichloroethane	50	U	50		ug/L			03/26/24 15:49	50
Bromomethane	250	U	250		ug/L			03/26/24 15:49	50
Chloromethane	100	U	100		ug/L			03/26/24 15:49	50
Iodomethane	250	U	250		ug/L			03/26/24 15:49	50
Dibromomethane	50	U	50		ug/L			03/26/24 15:49	50
Chlorobromomethane	50	U	50		ug/L			03/26/24 15:49	50
Chloroethane	200	U	200		ug/L			03/26/24 15:49	50
Vinyl chloride	100	U	100		ug/L			03/26/24 15:49	50

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

Client Sample ID: MPE-01
Lab Sample ID: 280-189130-1
Date Collected: 03/21/24 12:44
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	100	U	100		ug/L			03/26/24 15:49	50
Carbon disulfide	100	U	100		ug/L			03/26/24 15:49	50
Bromoform	100	U	100		ug/L			03/26/24 15:49	50
Dichlorobromomethane	50	U	50		ug/L			03/26/24 15:49	50
1,1-Dichloroethane	50	U	50		ug/L			03/26/24 15:49	50
1,1-Dichloroethene	50	U	50		ug/L			03/26/24 15:49	50
Trichlorofluoromethane	100	U	100		ug/L			03/26/24 15:49	50
Dichlorodifluoromethane	150	U	150		ug/L			03/26/24 15:49	50
1,1,2-Trichloro-1,2,2-trifluoroethane	150	U	150		ug/L			03/26/24 15:49	50
1,2-Dichloropropane	50	U	50		ug/L			03/26/24 15:49	50
2-Butanone (MEK)	750	U	750		ug/L			03/26/24 15:49	50
1,1,2-Trichloroethane	50	U	50		ug/L			03/26/24 15:49	50
Trichloroethene	**190**		50		ug/L			03/26/24 15:49	50
Methyl acetate	250	U	250		ug/L			03/26/24 15:49	50
1,1,2,2-Tetrachloroethane	50	U	50		ug/L			03/26/24 15:49	50
1,2,3-Trichlorobenzene	100	U	100		ug/L			03/26/24 15:49	50
Hexachlorobutadiene	100	U	100		ug/L			03/26/24 15:49	50
Naphthalene	100	U	100		ug/L			03/26/24 15:49	50
o-Xylene	50	U	50		ug/L			03/26/24 15:49	50
2-Chlorotoluene	50	U	50		ug/L			03/26/24 15:49	50
1,2-Dichlorobenzene	50	U	50		ug/L			03/26/24 15:49	50
1,2,4-Trimethylbenzene	50	U	50		ug/L			03/26/24 15:49	50
1,2-Dibromo-3-Chloropropane	250	U	250		ug/L			03/26/24 15:49	50
1,2,3-Trichloropropane	130	U	130		ug/L			03/26/24 15:49	50
Ethyl methacrylate	150	U	150		ug/L			03/26/24 15:49	50
tert-Butylbenzene	50	U	50		ug/L			03/26/24 15:49	50
Isopropylbenzene	50	U	50		ug/L			03/26/24 15:49	50
4-Isopropyltoluene	50	U	50		ug/L			03/26/24 15:49	50
Xylenes, Total	50	U	50		ug/L			03/26/24 15:49	50
1,2-Dichloroethene, Total	50	U	50		ug/L			03/26/24 15:49	50
1,3-Dichloropropene, Total	100	U	100		ug/L			03/26/24 15:49	50
Trihalomethanes, Total	50	U	50		ug/L			03/26/24 15:49	50
Total BTEX	50	U	50		ug/L			03/26/24 15:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 127*		*03/26/24 15:49*	*50*
Dibromofluoromethane (Surr)	*92*		*77 - 120*		*03/26/24 15:49*	*50*
Toluene-d8 (Surr)	*96*		*80 - 125*		*03/26/24 15:49*	*50*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*		*03/26/24 15:49*	*50*

Client Sample ID: MPE-02
Lab Sample ID: 280-189130-2
Date Collected: 03/21/24 12:54
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/26/24 12:12	1
Styrene	1.0	U	1.0		ug/L			03/26/24 12:12	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 12:12	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 12:12	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/26/24 12:12	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 12:12	1

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

Client Sample ID: MPE-02
Lab Sample ID: 280-189130-2
Date Collected: 03/21/24 12:54
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 12:12	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 12:12	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/26/24 12:12	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/26/24 12:12	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 12:12	1
Acrylonitrile	20	U	20		ug/L			03/26/24 12:12	1
Vinyl acetate	3.0	U	3.0		ug/L			03/26/24 12:12	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/26/24 12:12	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 12:12	1
Bromobenzene	1.0	U	1.0		ug/L			03/26/24 12:12	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/26/24 12:12	1
Toluene	1.0	U	1.0		ug/L			03/26/24 12:12	1
Chlorobenzene	1.0	U	1.0		ug/L			03/26/24 12:12	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/26/24 12:12	1
Hexane	2.0	U	2.0		ug/L			03/26/24 12:12	1
Cyclohexane	1.0	U	1.0		ug/L			03/26/24 12:12	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/26/24 12:12	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/26/24 12:12	1
Tetrachloroethene	**97**		1.0		ug/L			03/26/24 12:12	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 12:12	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 12:12	1
cis-1,2-Dichloroethene	**2.2**		1.0		ug/L			03/26/24 12:12	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 12:12	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/26/24 12:12	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/26/24 12:12	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 12:12	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/26/24 12:12	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/26/24 12:12	1
2-Hexanone	5.0	U	5.0		ug/L			03/26/24 12:12	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 12:12	1
Ethyl ether	2.0	U	2.0		ug/L			03/26/24 12:12	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 12:12	1
Acetone	**26**		15		ug/L			03/26/24 12:12	1
Chloroform	1.0	U	1.0		ug/L			03/26/24 12:12	1
Benzene	1.0	U	1.0		ug/L			03/26/24 12:12	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 12:12	1
Bromomethane	5.0	U	5.0		ug/L			03/26/24 12:12	1
Chloromethane	2.0	U	2.0		ug/L			03/26/24 12:12	1
Iodomethane	5.0	U	5.0		ug/L			03/26/24 12:12	1
Dibromomethane	1.0	U	1.0		ug/L			03/26/24 12:12	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/26/24 12:12	1
Chloroethane	4.0	U	4.0		ug/L			03/26/24 12:12	1
Vinyl chloride	2.0	U	2.0		ug/L			03/26/24 12:12	1
Methylene Chloride	2.0	U	2.0		ug/L			03/26/24 12:12	1
Carbon disulfide	2.0	U	2.0		ug/L			03/26/24 12:12	1
Bromoform	2.0	U	2.0		ug/L			03/26/24 12:12	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/26/24 12:12	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 12:12	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 12:12	1

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

Client Sample ID: MPE-02
Lab Sample ID: 280-189130-2
Date Collected: 03/21/24 12:54
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/26/24 12:12	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/26/24 12:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/26/24 12:12	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 12:12	1
2-Butanone (MEK)	15	U	15		ug/L			03/26/24 12:12	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 12:12	1
Trichloroethene	**1.4**		1.0		ug/L			03/26/24 12:12	1
Methyl acetate	5.0	U	5.0		ug/L			03/26/24 12:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 12:12	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/26/24 12:12	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/26/24 12:12	1
Naphthalene	2.0	U	2.0		ug/L			03/26/24 12:12	1
o-Xylene	1.0	U	1.0		ug/L			03/26/24 12:12	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 12:12	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 12:12	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 12:12	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/26/24 12:12	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/26/24 12:12	1
Ethyl methacrylate	3.0	U	3.0		ug/L			03/26/24 12:12	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 12:12	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/26/24 12:12	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/26/24 12:12	1
Xylenes, Total	1.0	U	1.0		ug/L			03/26/24 12:12	1
1,2-Dichloroethene, Total	**2.2**		1.0		ug/L			03/26/24 12:12	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/26/24 12:12	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/26/24 12:12	1
Total BTEX	1.0	U	1.0		ug/L			03/26/24 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 127*		*03/26/24 12:12*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 120*		*03/26/24 12:12*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*03/26/24 12:12*	*1*
4-Bromofluorobenzene (Surr)	*91*		*78 - 120*		*03/26/24 12:12*	*1*

Client Sample ID: MPE-03
Lab Sample ID: 280-189130-3
Date Collected: 03/21/24 13:35
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.0	U	4.0		ug/L			03/26/24 16:56	4
Styrene	4.0	U	4.0		ug/L			03/26/24 16:56	4
cis-1,3-Dichloropropene	8.0	U	8.0		ug/L			03/26/24 16:56	4
trans-1,3-Dichloropropene	8.0	U	8.0		ug/L			03/26/24 16:56	4
N-Propylbenzene	4.0	U	4.0		ug/L			03/26/24 16:56	4
n-Butylbenzene	4.0	U	4.0		ug/L			03/26/24 16:56	4
4-Chlorotoluene	4.0	U	4.0		ug/L			03/26/24 16:56	4
1,4-Dichlorobenzene	4.0	U	4.0		ug/L			03/26/24 16:56	4
Ethylene Dibromide	4.0	U	4.0		ug/L			03/26/24 16:56	4
3-Chloro-1-propene	8.0	U	8.0		ug/L			03/26/24 16:56	4
1,2-Dichloroethane	4.0	U	4.0		ug/L			03/26/24 16:56	4
Acrylonitrile	80	U	80		ug/L			03/26/24 16:56	4

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

Client Sample ID: MPE-03
Lab Sample ID: 280-189130-3
Date Collected: 03/21/24 13:35
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	12	U	12		ug/L			03/26/24 16:56	4
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/L			03/26/24 16:56	4
1,3,5-Trimethylbenzene	4.0	U	4.0		ug/L			03/26/24 16:56	4
Bromobenzene	4.0	U	4.0		ug/L			03/26/24 16:56	4
Methylcyclohexane	4.0	U	4.0		ug/L			03/26/24 16:56	4
Toluene	4.0	U	4.0		ug/L			03/26/24 16:56	4
Chlorobenzene	4.0	U	4.0		ug/L			03/26/24 16:56	4
Tetrahydrofuran	28	U	28		ug/L			03/26/24 16:56	4
Hexane	8.0	U	8.0		ug/L			03/26/24 16:56	4
Cyclohexane	4.0	U	4.0		ug/L			03/26/24 16:56	4
1,2,4-Trichlorobenzene	4.0	U	4.0		ug/L			03/26/24 16:56	4
Chlorodibromomethane	8.0	U	8.0		ug/L			03/26/24 16:56	4
Tetrachloroethene	**480**		4.0		ug/L			03/26/24 16:56	4
sec-Butylbenzene	4.0	U	4.0		ug/L			03/26/24 16:56	4
1,3-Dichloropropane	4.0	U	4.0		ug/L			03/26/24 16:56	4
cis-1,2-Dichloroethene	4.0	U	4.0		ug/L			03/26/24 16:56	4
trans-1,2-Dichloroethene	4.0	U	4.0		ug/L			03/26/24 16:56	4
Methyl tert-butyl ether	20	U	20		ug/L			03/26/24 16:56	4
m-Xylene & p-Xylene	8.0	U	8.0		ug/L			03/26/24 16:56	4
1,3-Dichlorobenzene	4.0	U	4.0		ug/L			03/26/24 16:56	4
Carbon tetrachloride	4.0	U	4.0		ug/L			03/26/24 16:56	4
1,1-Dichloropropene	4.0	U	4.0		ug/L			03/26/24 16:56	4
2-Hexanone	20	U	20		ug/L			03/26/24 16:56	4
2,2-Dichloropropane	4.0	U	4.0		ug/L			03/26/24 16:56	4
Ethyl ether	8.0	U	8.0		ug/L			03/26/24 16:56	4
1,1,1,2-Tetrachloroethane	4.0	U	4.0		ug/L			03/26/24 16:56	4
Acetone	**84**		60		ug/L			03/26/24 16:56	4
Chloroform	4.0	U	4.0		ug/L			03/26/24 16:56	4
Benzene	4.0	U	4.0		ug/L			03/26/24 16:56	4
1,1,1-Trichloroethane	4.0	U	4.0		ug/L			03/26/24 16:56	4
Bromomethane	20	U	20		ug/L			03/26/24 16:56	4
Chloromethane	8.0	U	8.0		ug/L			03/26/24 16:56	4
Iodomethane	20	U	20		ug/L			03/26/24 16:56	4
Dibromomethane	4.0	U	4.0		ug/L			03/26/24 16:56	4
Chlorobromomethane	4.0	U	4.0		ug/L			03/26/24 16:56	4
Chloroethane	16	U	16		ug/L			03/26/24 16:56	4
Vinyl chloride	8.0	U	8.0		ug/L			03/26/24 16:56	4
Methylene Chloride	8.0	U	8.0		ug/L			03/26/24 16:56	4
Carbon disulfide	8.0	U	8.0		ug/L			03/26/24 16:56	4
Bromoform	8.0	U	8.0		ug/L			03/26/24 16:56	4
Dichlorobromomethane	4.0	U	4.0		ug/L			03/26/24 16:56	4
1,1-Dichloroethane	4.0	U	4.0		ug/L			03/26/24 16:56	4
1,1-Dichloroethene	4.0	U	4.0		ug/L			03/26/24 16:56	4
Trichlorofluoromethane	8.0	U	8.0		ug/L			03/26/24 16:56	4
Dichlorodifluoromethane	12	U	12		ug/L			03/26/24 16:56	4
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	12		ug/L			03/26/24 16:56	4
1,2-Dichloropropane	4.0	U	4.0		ug/L			03/26/24 16:56	4
2-Butanone (MEK)	60	U	60		ug/L			03/26/24 16:56	4
1,1,2-Trichloroethane	4.0	U	4.0		ug/L			03/26/24 16:56	4

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

Client Sample ID: MPE-03
Date Collected: 03/21/24 13:35
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	7.0		4.0		ug/L			03/26/24 16:56	4
Methyl acetate	20	U	20		ug/L			03/26/24 16:56	4
1,1,2,2-Tetrachloroethane	4.0	U	4.0		ug/L			03/26/24 16:56	4
1,2,3-Trichlorobenzene	8.0	U	8.0		ug/L			03/26/24 16:56	4
Hexachlorobutadiene	8.0	U	8.0		ug/L			03/26/24 16:56	4
Naphthalene	8.0	U	8.0		ug/L			03/26/24 16:56	4
o-Xylene	4.0	U	4.0		ug/L			03/26/24 16:56	4
2-Chlorotoluene	4.0	U	4.0		ug/L			03/26/24 16:56	4
1,2-Dichlorobenzene	4.0	U	4.0		ug/L			03/26/24 16:56	4
1,2,4-Trimethylbenzene	4.0	U	4.0		ug/L			03/26/24 16:56	4
1,2-Dibromo-3-Chloropropane	20	U	20		ug/L			03/26/24 16:56	4
1,2,3-Trichloropropane	10	U	10		ug/L			03/26/24 16:56	4
Ethyl methacrylate	12	U	12		ug/L			03/26/24 16:56	4
tert-Butylbenzene	4.0	U	4.0		ug/L			03/26/24 16:56	4
Isopropylbenzene	4.0	U	4.0		ug/L			03/26/24 16:56	4
4-Isopropyltoluene	4.0	U	4.0		ug/L			03/26/24 16:56	4
Xylenes, Total	4.0	U	4.0		ug/L			03/26/24 16:56	4
1,2-Dichloroethene, Total	4.0	U	4.0		ug/L			03/26/24 16:56	4
1,3-Dichloropropene, Total	8.0	U	8.0		ug/L			03/26/24 16:56	4
Trihalomethanes, Total	4.0	U	4.0		ug/L			03/26/24 16:56	4
Total BTEX	4.0	U	4.0		ug/L			03/26/24 16:56	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 127*		*03/26/24 16:56*	*4*
Dibromofluoromethane (Surr)	*93*		*77 - 120*		*03/26/24 16:56*	*4*
Toluene-d8 (Surr)	*95*		*80 - 125*		*03/26/24 16:56*	*4*
4-Bromofluorobenzene (Surr)	*90*		*78 - 120*		*03/26/24 16:56*	*4*

Client Sample ID: MPE-04
Date Collected: 03/21/24 13:59
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/26/24 12:34	1
Styrene	1.0	U	1.0		ug/L			03/26/24 12:34	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 12:34	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 12:34	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/26/24 12:34	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 12:34	1
4-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 12:34	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 12:34	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/26/24 12:34	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/26/24 12:34	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 12:34	1
Acrylonitrile	20	U	20		ug/L			03/26/24 12:34	1
Vinyl acetate	3.0	U	3.0		ug/L			03/26/24 12:34	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/26/24 12:34	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 12:34	1
Bromobenzene	1.0	U	1.0		ug/L			03/26/24 12:34	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/26/24 12:34	1
Toluene	1.0	U	1.0		ug/L			03/26/24 12:34	1

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

Client Sample ID: MPE-04
Lab Sample ID: 280-189130-4
Date Collected: 03/21/24 13:59
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0		ug/L			03/26/24 12:34	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/26/24 12:34	1
Hexane	2.0	U	2.0		ug/L			03/26/24 12:34	1
Cyclohexane	1.0	U	1.0		ug/L			03/26/24 12:34	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/26/24 12:34	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/26/24 12:34	1
Tetrachloroethene	**58**		1.0		ug/L			03/26/24 12:34	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 12:34	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 12:34	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 12:34	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 12:34	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/26/24 12:34	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/26/24 12:34	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 12:34	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/26/24 12:34	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/26/24 12:34	1
2-Hexanone	5.0	U	5.0		ug/L			03/26/24 12:34	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 12:34	1
Ethyl ether	2.0	U	2.0		ug/L			03/26/24 12:34	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 12:34	1
Acetone	**73**		15		ug/L			03/26/24 12:34	1
Chloroform	1.0	U	1.0		ug/L			03/26/24 12:34	1
Benzene	1.0	U	1.0		ug/L			03/26/24 12:34	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 12:34	1
Bromomethane	5.0	U	5.0		ug/L			03/26/24 12:34	1
Chloromethane	2.0	U	2.0		ug/L			03/26/24 12:34	1
Iodomethane	5.0	U	5.0		ug/L			03/26/24 12:34	1
Dibromomethane	1.0	U	1.0		ug/L			03/26/24 12:34	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/26/24 12:34	1
Chloroethane	4.0	U	4.0		ug/L			03/26/24 12:34	1
Vinyl chloride	2.0	U	2.0		ug/L			03/26/24 12:34	1
Methylene Chloride	2.0	U	2.0		ug/L			03/26/24 12:34	1
Carbon disulfide	2.0	U	2.0		ug/L			03/26/24 12:34	1
Bromoform	2.0	U	2.0		ug/L			03/26/24 12:34	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/26/24 12:34	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 12:34	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 12:34	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/26/24 12:34	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/26/24 12:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/26/24 12:34	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 12:34	1
2-Butanone (MEK)	15	U	15		ug/L			03/26/24 12:34	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 12:34	1
Trichloroethene	1.0	U	1.0		ug/L			03/26/24 12:34	1
Methyl acetate	5.0	U	5.0		ug/L			03/26/24 12:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 12:34	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/26/24 12:34	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/26/24 12:34	1
Naphthalene	2.0	U	2.0		ug/L			03/26/24 12:34	1

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

Client Sample ID: MPE-04
Date Collected: 03/21/24 13:59
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	1.0	U	1.0		ug/L			03/26/24 12:34	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 12:34	1
1,2-Dichlorobenzene	1.2		1.0		ug/L			03/26/24 12:34	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 12:34	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/26/24 12:34	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/26/24 12:34	1
Ethyl methacrylate	3.0	U	3.0		ug/L			03/26/24 12:34	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 12:34	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/26/24 12:34	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/26/24 12:34	1
Xylenes, Total	1.0	U	1.0		ug/L			03/26/24 12:34	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			03/26/24 12:34	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/26/24 12:34	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/26/24 12:34	1
Total BTEX	1.0	U	1.0		ug/L			03/26/24 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 127*		*03/26/24 12:34*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*03/26/24 12:34*	*1*
Toluene-d8 (Surr)	*93*		*80 - 125*		*03/26/24 12:34*	*1*
4-Bromofluorobenzene (Surr)	*91*		*78 - 120*		*03/26/24 12:34*	*1*

Client Sample ID: MPE-05
Date Collected: 03/21/24 14:10
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	2.0	U	2.0		ug/L			03/26/24 17:18	2
Styrene	2.0	U	2.0		ug/L			03/26/24 17:18	2
cis-1,3-Dichloropropene	4.0	U	4.0		ug/L			03/26/24 17:18	2
trans-1,3-Dichloropropene	4.0	U	4.0		ug/L			03/26/24 17:18	2
N-Propylbenzene	2.0	U	2.0		ug/L			03/26/24 17:18	2
n-Butylbenzene	2.0	U	2.0		ug/L			03/26/24 17:18	2
4-Chlorotoluene	2.0	U	2.0		ug/L			03/26/24 17:18	2
1,4-Dichlorobenzene	2.0	U	2.0		ug/L			03/26/24 17:18	2
Ethylene Dibromide	2.0	U	2.0		ug/L			03/26/24 17:18	2
3-Chloro-1-propene	4.0	U	4.0		ug/L			03/26/24 17:18	2
1,2-Dichloroethane	2.0	U	2.0		ug/L			03/26/24 17:18	2
Acrylonitrile	40	U	40		ug/L			03/26/24 17:18	2
Vinyl acetate	6.0	U	6.0		ug/L			03/26/24 17:18	2
4-Methyl-2-pentanone (MIBK)	10	U	10		ug/L			03/26/24 17:18	2
1,3,5-Trimethylbenzene	2.0	U	2.0		ug/L			03/26/24 17:18	2
Bromobenzene	2.0	U	2.0		ug/L			03/26/24 17:18	2
Methylcyclohexane	2.0	U	2.0		ug/L			03/26/24 17:18	2
Toluene	2.0	U	2.0		ug/L			03/26/24 17:18	2
Chlorobenzene	2.0	U	2.0		ug/L			03/26/24 17:18	2
Tetrahydrofuran	14	U	14		ug/L			03/26/24 17:18	2
Hexane	4.0	U	4.0		ug/L			03/26/24 17:18	2
Cyclohexane	2.0	U	2.0		ug/L			03/26/24 17:18	2
1,2,4-Trichlorobenzene	2.0	U	2.0		ug/L			03/26/24 17:18	2
Chlorodibromomethane	4.0	U	4.0		ug/L			03/26/24 17:18	2

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

Client Sample ID: MPE-05
Lab Sample ID: 280-189130-5
Date Collected: 03/21/24 14:10
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**28**		2.0		ug/L			03/26/24 17:18	2
sec-Butylbenzene	2.0	U	2.0		ug/L			03/26/24 17:18	2
1,3-Dichloropropane	2.0	U	2.0		ug/L			03/26/24 17:18	2
cis-1,2-Dichloroethene	2.0	U	2.0		ug/L			03/26/24 17:18	2
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			03/26/24 17:18	2
Methyl tert-butyl ether	10	U	10		ug/L			03/26/24 17:18	2
m-Xylene & p-Xylene	4.0	U	4.0		ug/L			03/26/24 17:18	2
1,3-Dichlorobenzene	2.0	U	2.0		ug/L			03/26/24 17:18	2
Carbon tetrachloride	2.0	U	2.0		ug/L			03/26/24 17:18	2
1,1-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 17:18	2
2-Hexanone	10	U	10		ug/L			03/26/24 17:18	2
2,2-Dichloropropane	2.0	U	2.0		ug/L			03/26/24 17:18	2
Ethyl ether	4.0	U	4.0		ug/L			03/26/24 17:18	2
1,1,1,2-Tetrachloroethane	2.0	U	2.0		ug/L			03/26/24 17:18	2
Acetone	**440**		30		ug/L			03/26/24 17:18	2
Chloroform	2.0	U	2.0		ug/L			03/26/24 17:18	2
Benzene	2.0	U	2.0		ug/L			03/26/24 17:18	2
1,1,1-Trichloroethane	2.0	U	2.0		ug/L			03/26/24 17:18	2
Bromomethane	10	U	10		ug/L			03/26/24 17:18	2
Chloromethane	4.0	U	4.0		ug/L			03/26/24 17:18	2
Iodomethane	10	U	10		ug/L			03/26/24 17:18	2
Dibromomethane	2.0	U	2.0		ug/L			03/26/24 17:18	2
Chlorobromomethane	2.0	U	2.0		ug/L			03/26/24 17:18	2
Chloroethane	8.0	U	8.0		ug/L			03/26/24 17:18	2
Vinyl chloride	4.0	U	4.0		ug/L			03/26/24 17:18	2
Methylene Chloride	4.0	U	4.0		ug/L			03/26/24 17:18	2
Carbon disulfide	4.0	U	4.0		ug/L			03/26/24 17:18	2
Bromoform	4.0	U	4.0		ug/L			03/26/24 17:18	2
Dichlorobromomethane	2.0	U	2.0		ug/L			03/26/24 17:18	2
1,1-Dichloroethane	2.0	U	2.0		ug/L			03/26/24 17:18	2
1,1-Dichloroethene	2.0	U	2.0		ug/L			03/26/24 17:18	2
Trichlorofluoromethane	4.0	U	4.0		ug/L			03/26/24 17:18	2
Dichlorodifluoromethane	6.0	U	6.0		ug/L			03/26/24 17:18	2
1,1,2-Trichloro-1,2,2-trifluoroethane	6.0	U	6.0		ug/L			03/26/24 17:18	2
1,2-Dichloropropane	2.0	U	2.0		ug/L			03/26/24 17:18	2
2-Butanone (MEK)	**31**		30		ug/L			03/26/24 17:18	2
1,1,2-Trichloroethane	2.0	U	2.0		ug/L			03/26/24 17:18	2
Trichloroethene	2.0	U	2.0		ug/L			03/26/24 17:18	2
Methyl acetate	10	U	10		ug/L			03/26/24 17:18	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0		ug/L			03/26/24 17:18	2
1,2,3-Trichlorobenzene	4.0	U	4.0		ug/L			03/26/24 17:18	2
Hexachlorobutadiene	4.0	U	4.0		ug/L			03/26/24 17:18	2
Naphthalene	4.0	U	4.0		ug/L			03/26/24 17:18	2
o-Xylene	2.0	U	2.0		ug/L			03/26/24 17:18	2
2-Chlorotoluene	2.0	U	2.0		ug/L			03/26/24 17:18	2
1,2-Dichlorobenzene	2.0	U	2.0		ug/L			03/26/24 17:18	2
1,2,4-Trimethylbenzene	2.0	U	2.0		ug/L			03/26/24 17:18	2
1,2-Dibromo-3-Chloropropane	10	U	10		ug/L			03/26/24 17:18	2
1,2,3-Trichloropropane	5.0	U	5.0		ug/L			03/26/24 17:18	2

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

Client Sample ID: MPE-05
Date Collected: 03/21/24 14:10
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	6.0	U	6.0		ug/L			03/26/24 17:18	2
tert-Butylbenzene	2.0	U	2.0		ug/L			03/26/24 17:18	2
Isopropylbenzene	2.0	U	2.0		ug/L			03/26/24 17:18	2
4-Isopropyltoluene	2.0	U	2.0		ug/L			03/26/24 17:18	2
Xylenes, Total	2.0	U	2.0		ug/L			03/26/24 17:18	2
1,2-Dichloroethene, Total	2.0	U	2.0		ug/L			03/26/24 17:18	2
1,3-Dichloropropene, Total	4.0	U	4.0		ug/L			03/26/24 17:18	2
Trihalomethanes, Total	2.0	U	2.0		ug/L			03/26/24 17:18	2
Total BTEX	2.0	U	2.0		ug/L			03/26/24 17:18	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 127*		*03/26/24 17:18*	*2*
Dibromofluoromethane (Surr)	*95*		*77 - 120*		*03/26/24 17:18*	*2*
Toluene-d8 (Surr)	*92*		*80 - 125*		*03/26/24 17:18*	*2*
4-Bromofluorobenzene (Surr)	*90*		*78 - 120*		*03/26/24 17:18*	*2*

Client Sample ID: MPE-06
Date Collected: 03/21/24 13:54
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/26/24 12:56	1
Styrene	1.0	U	1.0		ug/L			03/26/24 12:56	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 12:56	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 12:56	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/26/24 12:56	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 12:56	1
4-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 12:56	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 12:56	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/26/24 12:56	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/26/24 12:56	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 12:56	1
Acrylonitrile	20	U	20		ug/L			03/26/24 12:56	1
Vinyl acetate	3.0	U	3.0		ug/L			03/26/24 12:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/26/24 12:56	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 12:56	1
Bromobenzene	1.0	U	1.0		ug/L			03/26/24 12:56	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/26/24 12:56	1
Toluene	1.0	U	1.0		ug/L			03/26/24 12:56	1
Chlorobenzene	1.0	U	1.0		ug/L			03/26/24 12:56	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/26/24 12:56	1
Hexane	2.0	U	2.0		ug/L			03/26/24 12:56	1
Cyclohexane	1.0	U	1.0		ug/L			03/26/24 12:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/26/24 12:56	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/26/24 12:56	1
Tetrachloroethene	**60**		1.0		ug/L			03/26/24 12:56	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 12:56	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 12:56	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 12:56	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 12:56	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/26/24 12:56	1

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

Client Sample ID: MPE-06
Lab Sample ID: 280-189130-6
Date Collected: 03/21/24 13:54
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/26/24 12:56	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 12:56	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/26/24 12:56	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/26/24 12:56	1
2-Hexanone	5.0	U	5.0		ug/L			03/26/24 12:56	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 12:56	1
Ethyl ether	2.0	U	2.0		ug/L			03/26/24 12:56	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 12:56	1
Acetone	**150**		15		ug/L			03/26/24 12:56	1
Chloroform	1.0	U	1.0		ug/L			03/26/24 12:56	1
Benzene	1.0	U	1.0		ug/L			03/26/24 12:56	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 12:56	1
Bromomethane	5.0	U	5.0		ug/L			03/26/24 12:56	1
Chloromethane	2.0	U	2.0		ug/L			03/26/24 12:56	1
Iodomethane	5.0	U	5.0		ug/L			03/26/24 12:56	1
Dibromomethane	1.0	U	1.0		ug/L			03/26/24 12:56	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/26/24 12:56	1
Chloroethane	4.0	U	4.0		ug/L			03/26/24 12:56	1
Vinyl chloride	2.0	U	2.0		ug/L			03/26/24 12:56	1
Methylene Chloride	2.0	U	2.0		ug/L			03/26/24 12:56	1
Carbon disulfide	2.0	U	2.0		ug/L			03/26/24 12:56	1
Bromoform	2.0	U	2.0		ug/L			03/26/24 12:56	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/26/24 12:56	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 12:56	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 12:56	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/26/24 12:56	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/26/24 12:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/26/24 12:56	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 12:56	1
2-Butanone (MEK)	15	U	15		ug/L			03/26/24 12:56	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 12:56	1
Trichloroethene	1.0	U	1.0		ug/L			03/26/24 12:56	1
Methyl acetate	5.0	U	5.0		ug/L			03/26/24 12:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 12:56	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/26/24 12:56	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/26/24 12:56	1
Naphthalene	2.0	U	2.0		ug/L			03/26/24 12:56	1
o-Xylene	1.0	U	1.0		ug/L			03/26/24 12:56	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 12:56	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 12:56	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 12:56	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/26/24 12:56	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/26/24 12:56	1
Ethyl methacrylate	3.0	U	3.0		ug/L			03/26/24 12:56	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 12:56	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/26/24 12:56	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/26/24 12:56	1
Xylenes, Total	1.0	U	1.0		ug/L			03/26/24 12:56	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			03/26/24 12:56	1

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

Client Sample ID: MPE-06
Date Collected: 03/21/24 13:54
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/26/24 12:56	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/26/24 12:56	1
Total BTEX	1.0	U	1.0		ug/L			03/26/24 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 127*		*03/26/24 12:56*	*1*
Dibromofluoromethane (Surr)	*95*		*77 - 120*		*03/26/24 12:56*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*03/26/24 12:56*	*1*
4-Bromofluorobenzene (Surr)	*90*		*78 - 120*		*03/26/24 12:56*	*1*

Client Sample ID: MPE-08
Date Collected: 03/21/24 13:29
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/26/24 13:17	1
Styrene	1.0	U	1.0		ug/L			03/26/24 13:17	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 13:17	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 13:17	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/26/24 13:17	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 13:17	1
4-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 13:17	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 13:17	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/26/24 13:17	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/26/24 13:17	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 13:17	1
Acrylonitrile	20	U	20		ug/L			03/26/24 13:17	1
Vinyl acetate	3.0	U	3.0		ug/L			03/26/24 13:17	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/26/24 13:17	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 13:17	1
Bromobenzene	1.0	U	1.0		ug/L			03/26/24 13:17	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/26/24 13:17	1
Toluene	1.0	U	1.0		ug/L			03/26/24 13:17	1
Chlorobenzene	1.0	U	1.0		ug/L			03/26/24 13:17	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/26/24 13:17	1
Hexane	2.0	U	2.0		ug/L			03/26/24 13:17	1
Cyclohexane	1.0	U	1.0		ug/L			03/26/24 13:17	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/26/24 13:17	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/26/24 13:17	1
Tetrachloroethene	**150**		1.0		ug/L			03/26/24 13:17	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 13:17	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 13:17	1
cis-1,2-Dichloroethene	**7.9**		1.0		ug/L			03/26/24 13:17	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 13:17	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/26/24 13:17	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/26/24 13:17	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 13:17	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/26/24 13:17	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/26/24 13:17	1
2-Hexanone	5.0	U	5.0		ug/L			03/26/24 13:17	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 13:17	1

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

Client Sample ID: MPE-08
Date Collected: 03/21/24 13:29
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	2.0	U	2.0		ug/L			03/26/24 13:17	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 13:17	1
Acetone	**110**		15		ug/L			03/26/24 13:17	1
Chloroform	1.0	U	1.0		ug/L			03/26/24 13:17	1
Benzene	1.0	U	1.0		ug/L			03/26/24 13:17	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 13:17	1
Bromomethane	5.0	U	5.0		ug/L			03/26/24 13:17	1
Chloromethane	2.0	U	2.0		ug/L			03/26/24 13:17	1
Iodomethane	5.0	U	5.0		ug/L			03/26/24 13:17	1
Dibromomethane	1.0	U	1.0		ug/L			03/26/24 13:17	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/26/24 13:17	1
Chloroethane	4.0	U	4.0		ug/L			03/26/24 13:17	1
Vinyl chloride	2.0	U	2.0		ug/L			03/26/24 13:17	1
Methylene Chloride	2.0	U	2.0		ug/L			03/26/24 13:17	1
Carbon disulfide	2.0	U	2.0		ug/L			03/26/24 13:17	1
Bromoform	2.0	U	2.0		ug/L			03/26/24 13:17	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/26/24 13:17	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 13:17	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 13:17	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/26/24 13:17	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/26/24 13:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/26/24 13:17	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 13:17	1
2-Butanone (MEK)	15	U	15		ug/L			03/26/24 13:17	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 13:17	1
Trichloroethene	**4.2**		1.0		ug/L			03/26/24 13:17	1
Methyl acetate	5.0	U	5.0		ug/L			03/26/24 13:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 13:17	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/26/24 13:17	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/26/24 13:17	1
Naphthalene	2.0	U	2.0		ug/L			03/26/24 13:17	1
o-Xylene	1.0	U	1.0		ug/L			03/26/24 13:17	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 13:17	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 13:17	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 13:17	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/26/24 13:17	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/26/24 13:17	1
Ethyl methacrylate	3.0	U	3.0		ug/L			03/26/24 13:17	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 13:17	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/26/24 13:17	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/26/24 13:17	1
Xylenes, Total	1.0	U	1.0		ug/L			03/26/24 13:17	1
1,2-Dichloroethene, Total	**7.9**		1.0		ug/L			03/26/24 13:17	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/26/24 13:17	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/26/24 13:17	1
Total BTEX	1.0	U	1.0		ug/L			03/26/24 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 127*		*03/26/24 13:17*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 120*		*03/26/24 13:17*	*1*

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

Client Sample ID: MPE-08
Date Collected: 03/21/24 13:29
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 125*		*03/26/24 13:17*	*1*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*		*03/26/24 13:17*	*1*

Client Sample ID: MPE-09
Date Collected: 03/21/24 12:36
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	40	U	40		ug/L			03/26/24 16:12	40
Styrene	40	U	40		ug/L			03/26/24 16:12	40
cis-1,3-Dichloropropene	80	U	80		ug/L			03/26/24 16:12	40
trans-1,3-Dichloropropene	80	U	80		ug/L			03/26/24 16:12	40
N-Propylbenzene	40	U	40		ug/L			03/26/24 16:12	40
n-Butylbenzene	40	U	40		ug/L			03/26/24 16:12	40
4-Chlorotoluene	40	U	40		ug/L			03/26/24 16:12	40
1,4-Dichlorobenzene	40	U	40		ug/L			03/26/24 16:12	40
Ethylene Dibromide	40	U	40		ug/L			03/26/24 16:12	40
3-Chloro-1-propene	80	U	80		ug/L			03/26/24 16:12	40
1,2-Dichloroethane	40	U	40		ug/L			03/26/24 16:12	40
Acrylonitrile	800	U	800		ug/L			03/26/24 16:12	40
Vinyl acetate	120	U	120		ug/L			03/26/24 16:12	40
4-Methyl-2-pentanone (MIBK)	200	U	200		ug/L			03/26/24 16:12	40
1,3,5-Trimethylbenzene	40	U	40		ug/L			03/26/24 16:12	40
Bromobenzene	40	U	40		ug/L			03/26/24 16:12	40
Methylcyclohexane	40	U	40		ug/L			03/26/24 16:12	40
Toluene	40	U	40		ug/L			03/26/24 16:12	40
Chlorobenzene	40	U	40		ug/L			03/26/24 16:12	40
Tetrahydrofuran	280	U	280		ug/L			03/26/24 16:12	40
Hexane	80	U	80		ug/L			03/26/24 16:12	40
Cyclohexane	40	U	40		ug/L			03/26/24 16:12	40
1,2,4-Trichlorobenzene	40	U	40		ug/L			03/26/24 16:12	40
Chlorodibromomethane	80	U	80		ug/L			03/26/24 16:12	40
Tetrachloroethene	**4300**		40		ug/L			03/26/24 16:12	40
sec-Butylbenzene	40	U	40		ug/L			03/26/24 16:12	40
1,3-Dichloropropane	40	U	40		ug/L			03/26/24 16:12	40
cis-1,2-Dichloroethene	**110**		40		ug/L			03/26/24 16:12	40
trans-1,2-Dichloroethene	40	U	40		ug/L			03/26/24 16:12	40
Methyl tert-butyl ether	200	U	200		ug/L			03/26/24 16:12	40
m-Xylene & p-Xylene	80	U	80		ug/L			03/26/24 16:12	40
1,3-Dichlorobenzene	40	U	40		ug/L			03/26/24 16:12	40
Carbon tetrachloride	40	U	40		ug/L			03/26/24 16:12	40
1,1-Dichloropropene	40	U	40		ug/L			03/26/24 16:12	40
2-Hexanone	200	U	200		ug/L			03/26/24 16:12	40
2,2-Dichloropropane	40	U	40		ug/L			03/26/24 16:12	40
Ethyl ether	80	U	80		ug/L			03/26/24 16:12	40
1,1,1,2-Tetrachloroethane	40	U	40		ug/L			03/26/24 16:12	40
Acetone	600	U	600		ug/L			03/26/24 16:12	40
Chloroform	40	U	40		ug/L			03/26/24 16:12	40
Benzene	40	U	40		ug/L			03/26/24 16:12	40
1,1,1-Trichloroethane	40	U	40		ug/L			03/26/24 16:12	40

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

Client Sample ID: MPE-09
Date Collected: 03/21/24 12:36
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	200	U	200		ug/L			03/26/24 16:12	40
Chloromethane	80	U	80		ug/L			03/26/24 16:12	40
Iodomethane	200	U	200		ug/L			03/26/24 16:12	40
Dibromomethane	40	U	40		ug/L			03/26/24 16:12	40
Chlorobromomethane	40	U	40		ug/L			03/26/24 16:12	40
Chloroethane	160	U	160		ug/L			03/26/24 16:12	40
Vinyl chloride	80	U	80		ug/L			03/26/24 16:12	40
Methylene Chloride	80	U	80		ug/L			03/26/24 16:12	40
Carbon disulfide	80	U	80		ug/L			03/26/24 16:12	40
Bromoform	80	U	80		ug/L			03/26/24 16:12	40
Dichlorobromomethane	40	U	40		ug/L			03/26/24 16:12	40
1,1-Dichloroethane	40	U	40		ug/L			03/26/24 16:12	40
1,1-Dichloroethene	40	U	40		ug/L			03/26/24 16:12	40
Trichlorofluoromethane	80	U	80		ug/L			03/26/24 16:12	40
Dichlorodifluoromethane	120	U	120		ug/L			03/26/24 16:12	40
1,1,2-Trichloro-1,2,2-trifluoroethane	120	U	120		ug/L			03/26/24 16:12	40
1,2-Dichloropropane	40	U	40		ug/L			03/26/24 16:12	40
2-Butanone (MEK)	600	U	600		ug/L			03/26/24 16:12	40
1,1,2-Trichloroethane	40	U	40		ug/L			03/26/24 16:12	40
Trichloroethene	**160**		40		ug/L			03/26/24 16:12	40
Methyl acetate	200	U	200		ug/L			03/26/24 16:12	40
1,1,2,2-Tetrachloroethane	40	U	40		ug/L			03/26/24 16:12	40
1,2,3-Trichlorobenzene	80	U	80		ug/L			03/26/24 16:12	40
Hexachlorobutadiene	80	U	80		ug/L			03/26/24 16:12	40
Naphthalene	80	U	80		ug/L			03/26/24 16:12	40
o-Xylene	40	U	40		ug/L			03/26/24 16:12	40
2-Chlorotoluene	40	U	40		ug/L			03/26/24 16:12	40
1,2-Dichlorobenzene	40	U	40		ug/L			03/26/24 16:12	40
1,2,4-Trimethylbenzene	40	U	40		ug/L			03/26/24 16:12	40
1,2-Dibromo-3-Chloropropane	200	U	200		ug/L			03/26/24 16:12	40
1,2,3-Trichloropropane	100	U	100		ug/L			03/26/24 16:12	40
Ethyl methacrylate	120	U	120		ug/L			03/26/24 16:12	40
tert-Butylbenzene	40	U	40		ug/L			03/26/24 16:12	40
Isopropylbenzene	40	U	40		ug/L			03/26/24 16:12	40
4-Isopropyltoluene	40	U	40		ug/L			03/26/24 16:12	40
Xylenes, Total	40	U	40		ug/L			03/26/24 16:12	40
1,2-Dichloroethene, Total	**110**		40		ug/L			03/26/24 16:12	40
1,3-Dichloropropene, Total	80	U	80		ug/L			03/26/24 16:12	40
Trihalomethanes, Total	40	U	40		ug/L			03/26/24 16:12	40
Total BTEX	40	U	40		ug/L			03/26/24 16:12	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 127*		*03/26/24 16:12*	*40*
Dibromofluoromethane (Surr)	*94*		*77 - 120*		*03/26/24 16:12*	*40*
Toluene-d8 (Surr)	*93*		*80 - 125*		*03/26/24 16:12*	*40*
4-Bromofluorobenzene (Surr)	*90*		*78 - 120*		*03/26/24 16:12*	*40*

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

Client Sample ID: MPE-10
Date Collected: 03/21/24 13:04
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/26/24 13:39	1
Styrene	1.0	U	1.0		ug/L			03/26/24 13:39	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 13:39	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 13:39	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/26/24 13:39	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 13:39	1
4-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 13:39	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 13:39	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/26/24 13:39	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/26/24 13:39	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 13:39	1
Acrylonitrile	20	U	20		ug/L			03/26/24 13:39	1
Vinyl acetate	3.0	U	3.0		ug/L			03/26/24 13:39	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/26/24 13:39	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 13:39	1
Bromobenzene	1.0	U	1.0		ug/L			03/26/24 13:39	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/26/24 13:39	1
Toluene	1.0	U	1.0		ug/L			03/26/24 13:39	1
Chlorobenzene	1.0	U	1.0		ug/L			03/26/24 13:39	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/26/24 13:39	1
Hexane	2.0	U	2.0		ug/L			03/26/24 13:39	1
Cyclohexane	1.0	U	1.0		ug/L			03/26/24 13:39	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/26/24 13:39	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/26/24 13:39	1
Tetrachloroethene	**150**		1.0		ug/L			03/26/24 13:39	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 13:39	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 13:39	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 13:39	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 13:39	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/26/24 13:39	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/26/24 13:39	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 13:39	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/26/24 13:39	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/26/24 13:39	1
2-Hexanone	5.0	U	5.0		ug/L			03/26/24 13:39	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 13:39	1
Ethyl ether	2.0	U	2.0		ug/L			03/26/24 13:39	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 13:39	1
Acetone	**47**		15		ug/L			03/26/24 13:39	1
Chloroform	1.0	U	1.0		ug/L			03/26/24 13:39	1
Benzene	1.0	U	1.0		ug/L			03/26/24 13:39	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 13:39	1
Bromomethane	5.0	U	5.0		ug/L			03/26/24 13:39	1
Chloromethane	2.0	U	2.0		ug/L			03/26/24 13:39	1
Iodomethane	5.0	U	5.0		ug/L			03/26/24 13:39	1
Dibromomethane	1.0	U	1.0		ug/L			03/26/24 13:39	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/26/24 13:39	1
Chloroethane	4.0	U	4.0		ug/L			03/26/24 13:39	1
Vinyl chloride	2.0	U	2.0		ug/L			03/26/24 13:39	1

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

Client Sample ID: MPE-10
Lab Sample ID: 280-189130-9
Date Collected: 03/21/24 13:04
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	2.0	U	2.0		ug/L			03/26/24 13:39	1
Carbon disulfide	2.0	U	2.0		ug/L			03/26/24 13:39	1
Bromoform	2.0	U	2.0		ug/L			03/26/24 13:39	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/26/24 13:39	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 13:39	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 13:39	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/26/24 13:39	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/26/24 13:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/26/24 13:39	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 13:39	1
2-Butanone (MEK)	15	U	15		ug/L			03/26/24 13:39	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 13:39	1
Trichloroethene	**2.5**		1.0		ug/L			03/26/24 13:39	1
Methyl acetate	5.0	U	5.0		ug/L			03/26/24 13:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 13:39	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/26/24 13:39	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/26/24 13:39	1
Naphthalene	2.0	U	2.0		ug/L			03/26/24 13:39	1
o-Xylene	1.0	U	1.0		ug/L			03/26/24 13:39	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 13:39	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 13:39	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 13:39	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/26/24 13:39	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/26/24 13:39	1
Ethyl methacrylate	3.0	U	3.0		ug/L			03/26/24 13:39	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 13:39	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/26/24 13:39	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/26/24 13:39	1
Xylenes, Total	1.0	U	1.0		ug/L			03/26/24 13:39	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			03/26/24 13:39	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/26/24 13:39	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/26/24 13:39	1
Total BTEX	1.0	U	1.0		ug/L			03/26/24 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 127*		*03/26/24 13:39*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 120*		*03/26/24 13:39*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*03/26/24 13:39*	*1*
4-Bromofluorobenzene (Surr)	*90*		*78 - 120*		*03/26/24 13:39*	*1*

Client Sample ID: Trip Blank
Lab Sample ID: 280-189130-10
Date Collected: 03/21/24 14:50
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/26/24 10:25	1
Styrene	1.0	U	1.0		ug/L			03/26/24 10:25	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 10:25	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 10:25	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/26/24 10:25	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 10:25	1

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

Client Sample ID: Trip Blank
Date Collected: 03/21/24 14:50
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 10:25	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 10:25	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/26/24 10:25	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/26/24 10:25	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 10:25	1
Acrylonitrile	20	U	20		ug/L			03/26/24 10:25	1
Vinyl acetate	3.0	U	3.0		ug/L			03/26/24 10:25	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/26/24 10:25	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 10:25	1
Bromobenzene	1.0	U	1.0		ug/L			03/26/24 10:25	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/26/24 10:25	1
Toluene	1.0	U	1.0		ug/L			03/26/24 10:25	1
Chlorobenzene	1.0	U	1.0		ug/L			03/26/24 10:25	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/26/24 10:25	1
Hexane	2.0	U	2.0		ug/L			03/26/24 10:25	1
Cyclohexane	1.0	U	1.0		ug/L			03/26/24 10:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/26/24 10:25	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/26/24 10:25	1
Tetrachloroethene	1.0	U	1.0		ug/L			03/26/24 10:25	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 10:25	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 10:25	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 10:25	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 10:25	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/26/24 10:25	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/26/24 10:25	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 10:25	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/26/24 10:25	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/26/24 10:25	1
2-Hexanone	5.0	U	5.0		ug/L			03/26/24 10:25	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 10:25	1
Ethyl ether	2.0	U	2.0		ug/L			03/26/24 10:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 10:25	1
Acetone	15	U	15		ug/L			03/26/24 10:25	1
Chloroform	1.0	U	1.0		ug/L			03/26/24 10:25	1
Benzene	1.0	U	1.0		ug/L			03/26/24 10:25	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 10:25	1
Bromomethane	5.0	U	5.0		ug/L			03/26/24 10:25	1
Chloromethane	2.0	U	2.0		ug/L			03/26/24 10:25	1
Iodomethane	5.0	U	5.0		ug/L			03/26/24 10:25	1
Dibromomethane	1.0	U	1.0		ug/L			03/26/24 10:25	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/26/24 10:25	1
Chloroethane	4.0	U	4.0		ug/L			03/26/24 10:25	1
Vinyl chloride	2.0	U	2.0		ug/L			03/26/24 10:25	1
Methylene Chloride	2.0	U	2.0		ug/L			03/26/24 10:25	1
Carbon disulfide	2.0	U	2.0		ug/L			03/26/24 10:25	1
Bromoform	2.0	U	2.0		ug/L			03/26/24 10:25	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/26/24 10:25	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 10:25	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 10:25	1

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

Client Sample ID: Trip Blank
Lab Sample ID: 280-189130-10
Date Collected: 03/21/24 14:50
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/26/24 10:25	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/26/24 10:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/26/24 10:25	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 10:25	1
2-Butanone (MEK)	15	U	15		ug/L			03/26/24 10:25	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 10:25	1
Trichloroethene	1.0	U	1.0		ug/L			03/26/24 10:25	1
Methyl acetate	5.0	U	5.0		ug/L			03/26/24 10:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 10:25	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/26/24 10:25	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/26/24 10:25	1
Naphthalene	2.0	U	2.0		ug/L			03/26/24 10:25	1
o-Xylene	1.0	U	1.0		ug/L			03/26/24 10:25	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 10:25	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 10:25	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 10:25	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/26/24 10:25	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/26/24 10:25	1
Ethyl methacrylate	3.0	U	3.0		ug/L			03/26/24 10:25	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 10:25	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/26/24 10:25	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/26/24 10:25	1
Xylenes, Total	1.0	U	1.0		ug/L			03/26/24 10:25	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			03/26/24 10:25	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/26/24 10:25	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/26/24 10:25	1
Total BTEX	1.0	U	1.0		ug/L			03/26/24 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 127*		*03/26/24 10:25*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 120*		*03/26/24 10:25*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*03/26/24 10:25*	*1*
4-Bromofluorobenzene (Surr)	*89*		*78 - 120*		*03/26/24 10:25*	*1*

Client Sample ID: MPE-11
Lab Sample ID: 280-189130-11
Date Collected: 03/21/24 12:28
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.0	U	4.0		ug/L			03/26/24 16:34	4
Styrene	4.0	U	4.0		ug/L			03/26/24 16:34	4
cis-1,3-Dichloropropene	8.0	U	8.0		ug/L			03/26/24 16:34	4
trans-1,3-Dichloropropene	8.0	U	8.0		ug/L			03/26/24 16:34	4
N-Propylbenzene	4.0	U	4.0		ug/L			03/26/24 16:34	4
n-Butylbenzene	4.0	U	4.0		ug/L			03/26/24 16:34	4
4-Chlorotoluene	4.0	U	4.0		ug/L			03/26/24 16:34	4
1,4-Dichlorobenzene	4.0	U	4.0		ug/L			03/26/24 16:34	4
Ethylene Dibromide	4.0	U	4.0		ug/L			03/26/24 16:34	4
3-Chloro-1-propene	8.0	U	8.0		ug/L			03/26/24 16:34	4
1,2-Dichloroethane	4.0	U	4.0		ug/L			03/26/24 16:34	4
Acrylonitrile	80	U	80		ug/L			03/26/24 16:34	4

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

Client Sample ID: MPE-11
Date Collected: 03/21/24 12:28
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	12	U	12		ug/L			03/26/24 16:34	4
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/L			03/26/24 16:34	4
1,3,5-Trimethylbenzene	4.0	U	4.0		ug/L			03/26/24 16:34	4
Bromobenzene	4.0	U	4.0		ug/L			03/26/24 16:34	4
Methylcyclohexane	4.0	U	4.0		ug/L			03/26/24 16:34	4
Toluene	4.0	U	4.0		ug/L			03/26/24 16:34	4
Chlorobenzene	4.0	U	4.0		ug/L			03/26/24 16:34	4
Tetrahydrofuran	28	U	28		ug/L			03/26/24 16:34	4
Hexane	8.0	U	8.0		ug/L			03/26/24 16:34	4
Cyclohexane	4.0	U	4.0		ug/L			03/26/24 16:34	4
1,2,4-Trichlorobenzene	4.0	U	4.0		ug/L			03/26/24 16:34	4
Chlorodibromomethane	8.0	U	8.0		ug/L			03/26/24 16:34	4
Tetrachloroethene	**670**		4.0		ug/L			03/26/24 16:34	4
sec-Butylbenzene	4.0	U	4.0		ug/L			03/26/24 16:34	4
1,3-Dichloropropane	4.0	U	4.0		ug/L			03/26/24 16:34	4
cis-1,2-Dichloroethene	**4.7**		4.0		ug/L			03/26/24 16:34	4
trans-1,2-Dichloroethene	4.0	U	4.0		ug/L			03/26/24 16:34	4
Methyl tert-butyl ether	20	U	20		ug/L			03/26/24 16:34	4
m-Xylene & p-Xylene	8.0	U	8.0		ug/L			03/26/24 16:34	4
1,3-Dichlorobenzene	4.0	U	4.0		ug/L			03/26/24 16:34	4
Carbon tetrachloride	4.0	U	4.0		ug/L			03/26/24 16:34	4
1,1-Dichloropropene	4.0	U	4.0		ug/L			03/26/24 16:34	4
2-Hexanone	20	U	20		ug/L			03/26/24 16:34	4
2,2-Dichloropropane	4.0	U	4.0		ug/L			03/26/24 16:34	4
Ethyl ether	8.0	U	8.0		ug/L			03/26/24 16:34	4
1,1,1,2-Tetrachloroethane	4.0	U	4.0		ug/L			03/26/24 16:34	4
Acetone	**120**		60		ug/L			03/26/24 16:34	4
Chloroform	4.0	U	4.0		ug/L			03/26/24 16:34	4
Benzene	4.0	U	4.0		ug/L			03/26/24 16:34	4
1,1,1-Trichloroethane	4.0	U	4.0		ug/L			03/26/24 16:34	4
Bromomethane	20	U	20		ug/L			03/26/24 16:34	4
Chloromethane	8.0	U	8.0		ug/L			03/26/24 16:34	4
Iodomethane	20	U	20		ug/L			03/26/24 16:34	4
Dibromomethane	4.0	U	4.0		ug/L			03/26/24 16:34	4
Chlorobromomethane	4.0	U	4.0		ug/L			03/26/24 16:34	4
Chloroethane	16	U	16		ug/L			03/26/24 16:34	4
Vinyl chloride	8.0	U	8.0		ug/L			03/26/24 16:34	4
Methylene Chloride	8.0	U	8.0		ug/L			03/26/24 16:34	4
Carbon disulfide	8.0	U	8.0		ug/L			03/26/24 16:34	4
Bromoform	8.0	U	8.0		ug/L			03/26/24 16:34	4
Dichlorobromomethane	4.0	U	4.0		ug/L			03/26/24 16:34	4
1,1-Dichloroethane	4.0	U	4.0		ug/L			03/26/24 16:34	4
1,1-Dichloroethene	4.0	U	4.0		ug/L			03/26/24 16:34	4
Trichlorofluoromethane	8.0	U	8.0		ug/L			03/26/24 16:34	4
Dichlorodifluoromethane	12	U	12		ug/L			03/26/24 16:34	4
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	12		ug/L			03/26/24 16:34	4
1,2-Dichloropropane	4.0	U	4.0		ug/L			03/26/24 16:34	4
2-Butanone (MEK)	60	U	60		ug/L			03/26/24 16:34	4
1,1,2-Trichloroethane	4.0	U	4.0		ug/L			03/26/24 16:34	4

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

Client Sample ID: MPE-11
Date Collected: 03/21/24 12:28
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**11**		4.0		ug/L			03/26/24 16:34	4
Methyl acetate	20	U	20		ug/L			03/26/24 16:34	4
1,1,2,2-Tetrachloroethane	4.0	U	4.0		ug/L			03/26/24 16:34	4
1,2,3-Trichlorobenzene	8.0	U	8.0		ug/L			03/26/24 16:34	4
Hexachlorobutadiene	8.0	U	8.0		ug/L			03/26/24 16:34	4
Naphthalene	8.0	U	8.0		ug/L			03/26/24 16:34	4
o-Xylene	4.0	U	4.0		ug/L			03/26/24 16:34	4
2-Chlorotoluene	4.0	U	4.0		ug/L			03/26/24 16:34	4
1,2-Dichlorobenzene	4.0	U	4.0		ug/L			03/26/24 16:34	4
1,2,4-Trimethylbenzene	4.0	U	4.0		ug/L			03/26/24 16:34	4
1,2-Dibromo-3-Chloropropane	20	U	20		ug/L			03/26/24 16:34	4
1,2,3-Trichloropropane	10	U	10		ug/L			03/26/24 16:34	4
Ethyl methacrylate	12	U	12		ug/L			03/26/24 16:34	4
tert-Butylbenzene	4.0	U	4.0		ug/L			03/26/24 16:34	4
Isopropylbenzene	4.0	U	4.0		ug/L			03/26/24 16:34	4
4-Isopropyltoluene	4.0	U	4.0		ug/L			03/26/24 16:34	4
Xylenes, Total	4.0	U	4.0		ug/L			03/26/24 16:34	4
1,2-Dichloroethene, Total	**4.7**		4.0		ug/L			03/26/24 16:34	4
1,3-Dichloropropene, Total	8.0	U	8.0		ug/L			03/26/24 16:34	4
Trihalomethanes, Total	4.0	U	4.0		ug/L			03/26/24 16:34	4
Total BTEX	4.0	U	4.0		ug/L			03/26/24 16:34	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 127*		*03/26/24 16:34*	*4*
Dibromofluoromethane (Surr)	*93*		*77 - 120*		*03/26/24 16:34*	*4*
Toluene-d8 (Surr)	*95*		*80 - 125*		*03/26/24 16:34*	*4*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*		*03/26/24 16:34*	*4*

Client Sample ID: MPE-12
Date Collected: 03/21/24 11:41
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/26/24 14:01	1
Styrene	1.0	U	1.0		ug/L			03/26/24 14:01	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 14:01	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 14:01	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/26/24 14:01	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 14:01	1
4-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 14:01	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 14:01	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/26/24 14:01	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/26/24 14:01	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 14:01	1
Acrylonitrile	20	U	20		ug/L			03/26/24 14:01	1
Vinyl acetate	3.0	U	3.0		ug/L			03/26/24 14:01	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/26/24 14:01	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 14:01	1
Bromobenzene	1.0	U	1.0		ug/L			03/26/24 14:01	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/26/24 14:01	1
Toluene	1.0	U	1.0		ug/L			03/26/24 14:01	1

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

Client Sample ID: MPE-12
Lab Sample ID: 280-189130-12
Date Collected: 03/21/24 11:41
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0		ug/L			03/26/24 14:01	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/26/24 14:01	1
Hexane	2.0	U	2.0		ug/L			03/26/24 14:01	1
Cyclohexane	1.0	U	1.0		ug/L			03/26/24 14:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/26/24 14:01	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/26/24 14:01	1
Tetrachloroethene	**130**		1.0		ug/L			03/26/24 14:01	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 14:01	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 14:01	1
cis-1,2-Dichloroethene	**9.5**		1.0		ug/L			03/26/24 14:01	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 14:01	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/26/24 14:01	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/26/24 14:01	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 14:01	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/26/24 14:01	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/26/24 14:01	1
2-Hexanone	5.0	U	5.0		ug/L			03/26/24 14:01	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 14:01	1
Ethyl ether	2.0	U	2.0		ug/L			03/26/24 14:01	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 14:01	1
Acetone	**130**		15		ug/L			03/26/24 14:01	1
Chloroform	1.0	U	1.0		ug/L			03/26/24 14:01	1
Benzene	1.0	U	1.0		ug/L			03/26/24 14:01	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 14:01	1
Bromomethane	5.0	U	5.0		ug/L			03/26/24 14:01	1
Chloromethane	2.0	U	2.0		ug/L			03/26/24 14:01	1
Iodomethane	5.0	U	5.0		ug/L			03/26/24 14:01	1
Dibromomethane	1.0	U	1.0		ug/L			03/26/24 14:01	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/26/24 14:01	1
Chloroethane	4.0	U	4.0		ug/L			03/26/24 14:01	1
Vinyl chloride	2.0	U	2.0		ug/L			03/26/24 14:01	1
Methylene Chloride	2.0	U	2.0		ug/L			03/26/24 14:01	1
Carbon disulfide	2.0	U	2.0		ug/L			03/26/24 14:01	1
Bromoform	2.0	U	2.0		ug/L			03/26/24 14:01	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/26/24 14:01	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 14:01	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 14:01	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/26/24 14:01	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/26/24 14:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/26/24 14:01	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 14:01	1
2-Butanone (MEK)	15	U	15		ug/L			03/26/24 14:01	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 14:01	1
Trichloroethene	**5.2**		1.0		ug/L			03/26/24 14:01	1
Methyl acetate	5.0	U	5.0		ug/L			03/26/24 14:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 14:01	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/26/24 14:01	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/26/24 14:01	1
Naphthalene	2.0	U	2.0		ug/L			03/26/24 14:01	1

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

Client Sample ID: MPE-12
Date Collected: 03/21/24 11:41
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	1.0	U	1.0		ug/L			03/26/24 14:01	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 14:01	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 14:01	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 14:01	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/26/24 14:01	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/26/24 14:01	1
Ethyl methacrylate	3.0	U	3.0		ug/L			03/26/24 14:01	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 14:01	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/26/24 14:01	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/26/24 14:01	1
Xylenes, Total	1.0	U	1.0		ug/L			03/26/24 14:01	1
1,2-Dichloroethene, Total	**9.5**		1.0		ug/L			03/26/24 14:01	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/26/24 14:01	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/26/24 14:01	1
Total BTEX	1.0	U	1.0		ug/L			03/26/24 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 127*		*03/26/24 14:01*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 120*		*03/26/24 14:01*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*03/26/24 14:01*	*1*
4-Bromofluorobenzene (Surr)	*90*		*78 - 120*		*03/26/24 14:01*	*1*

Client Sample ID: MPE-13
Date Collected: 03/21/24 13:21
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/26/24 14:22	1
Styrene	1.0	U	1.0		ug/L			03/26/24 14:22	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 14:22	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 14:22	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/26/24 14:22	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 14:22	1
4-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 14:22	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 14:22	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/26/24 14:22	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/26/24 14:22	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 14:22	1
Acrylonitrile	20	U	20		ug/L			03/26/24 14:22	1
Vinyl acetate	3.0	U	3.0		ug/L			03/26/24 14:22	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/26/24 14:22	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 14:22	1
Bromobenzene	1.0	U	1.0		ug/L			03/26/24 14:22	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/26/24 14:22	1
Toluene	1.0	U	1.0		ug/L			03/26/24 14:22	1
Chlorobenzene	1.0	U	1.0		ug/L			03/26/24 14:22	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/26/24 14:22	1
Hexane	2.0	U	2.0		ug/L			03/26/24 14:22	1
Cyclohexane	1.0	U	1.0		ug/L			03/26/24 14:22	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/26/24 14:22	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/26/24 14:22	1

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

Client Sample ID: MPE-13
Lab Sample ID: 280-189130-13
Date Collected: 03/21/24 13:21
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**26**		1.0		ug/L			03/26/24 14:22	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 14:22	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 14:22	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 14:22	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 14:22	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/26/24 14:22	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/26/24 14:22	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 14:22	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/26/24 14:22	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/26/24 14:22	1
2-Hexanone	5.0	U	5.0		ug/L			03/26/24 14:22	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 14:22	1
Ethyl ether	2.0	U	2.0		ug/L			03/26/24 14:22	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 14:22	1
Acetone	**180**		15		ug/L			03/26/24 14:22	1
Chloroform	1.0	U	1.0		ug/L			03/26/24 14:22	1
Benzene	1.0	U	1.0		ug/L			03/26/24 14:22	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 14:22	1
Bromomethane	5.0	U	5.0		ug/L			03/26/24 14:22	1
Chloromethane	2.0	U	2.0		ug/L			03/26/24 14:22	1
Iodomethane	5.0	U	5.0		ug/L			03/26/24 14:22	1
Dibromomethane	1.0	U	1.0		ug/L			03/26/24 14:22	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/26/24 14:22	1
Chloroethane	4.0	U	4.0		ug/L			03/26/24 14:22	1
Vinyl chloride	2.0	U	2.0		ug/L			03/26/24 14:22	1
Methylene Chloride	2.0	U	2.0		ug/L			03/26/24 14:22	1
Carbon disulfide	2.0	U	2.0		ug/L			03/26/24 14:22	1
Bromoform	2.0	U	2.0		ug/L			03/26/24 14:22	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/26/24 14:22	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 14:22	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 14:22	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/26/24 14:22	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/26/24 14:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/26/24 14:22	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 14:22	1
2-Butanone (MEK)	15	U	15		ug/L			03/26/24 14:22	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 14:22	1
Trichloroethene	1.0	U	1.0		ug/L			03/26/24 14:22	1
Methyl acetate	5.0	U	5.0		ug/L			03/26/24 14:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 14:22	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/26/24 14:22	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/26/24 14:22	1
Naphthalene	2.0	U	2.0		ug/L			03/26/24 14:22	1
o-Xylene	1.0	U	1.0		ug/L			03/26/24 14:22	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 14:22	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 14:22	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 14:22	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/26/24 14:22	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/26/24 14:22	1

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

Client Sample ID: MPE-13
Date Collected: 03/21/24 13:21
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	3.0	U	3.0		ug/L			03/26/24 14:22	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 14:22	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/26/24 14:22	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/26/24 14:22	1
Xylenes, Total	1.0	U	1.0		ug/L			03/26/24 14:22	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			03/26/24 14:22	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/26/24 14:22	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/26/24 14:22	1
Total BTEX	1.0	U	1.0		ug/L			03/26/24 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 127*		*03/26/24 14:22*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 120*		*03/26/24 14:22*	*1*
Toluene-d8 (Surr)	*94*		*80 - 125*		*03/26/24 14:22*	*1*
4-Bromofluorobenzene (Surr)	*91*		*78 - 120*		*03/26/24 14:22*	*1*

Client Sample ID: MPE-15
Date Collected: 03/21/24 13:46
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/26/24 14:44	1
Styrene	1.0	U	1.0		ug/L			03/26/24 14:44	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 14:44	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 14:44	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/26/24 14:44	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 14:44	1
4-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 14:44	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 14:44	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/26/24 14:44	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/26/24 14:44	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 14:44	1
Acrylonitrile	20	U	20		ug/L			03/26/24 14:44	1
Vinyl acetate	3.0	U	3.0		ug/L			03/26/24 14:44	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/26/24 14:44	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 14:44	1
Bromobenzene	1.0	U	1.0		ug/L			03/26/24 14:44	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/26/24 14:44	1
Toluene	1.0	U	1.0		ug/L			03/26/24 14:44	1
Chlorobenzene	1.0	U	1.0		ug/L			03/26/24 14:44	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/26/24 14:44	1
Hexane	2.0	U	2.0		ug/L			03/26/24 14:44	1
Cyclohexane	1.0	U	1.0		ug/L			03/26/24 14:44	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/26/24 14:44	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/26/24 14:44	1
Tetrachloroethene	**82**		1.0		ug/L			03/26/24 14:44	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 14:44	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 14:44	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 14:44	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 14:44	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/26/24 14:44	1

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

Client Sample ID: MPE-15
Date Collected: 03/21/24 13:46
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/26/24 14:44	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 14:44	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/26/24 14:44	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/26/24 14:44	1
2-Hexanone	5.0	U	5.0		ug/L			03/26/24 14:44	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 14:44	1
Ethyl ether	2.0	U	2.0		ug/L			03/26/24 14:44	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 14:44	1
Acetone	**89**		15		ug/L			03/26/24 14:44	1
Chloroform	1.0	U	1.0		ug/L			03/26/24 14:44	1
Benzene	1.0	U	1.0		ug/L			03/26/24 14:44	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 14:44	1
Bromomethane	5.0	U	5.0		ug/L			03/26/24 14:44	1
Chloromethane	2.0	U	2.0		ug/L			03/26/24 14:44	1
Iodomethane	5.0	U	5.0		ug/L			03/26/24 14:44	1
Dibromomethane	1.0	U	1.0		ug/L			03/26/24 14:44	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/26/24 14:44	1
Chloroethane	4.0	U	4.0		ug/L			03/26/24 14:44	1
Vinyl chloride	2.0	U	2.0		ug/L			03/26/24 14:44	1
Methylene Chloride	2.0	U	2.0		ug/L			03/26/24 14:44	1
Carbon disulfide	2.0	U	2.0		ug/L			03/26/24 14:44	1
Bromoform	2.0	U	2.0		ug/L			03/26/24 14:44	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/26/24 14:44	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 14:44	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 14:44	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/26/24 14:44	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/26/24 14:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/26/24 14:44	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 14:44	1
2-Butanone (MEK)	15	U	15		ug/L			03/26/24 14:44	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 14:44	1
Trichloroethene	**1.0**		1.0		ug/L			03/26/24 14:44	1
Methyl acetate	5.0	U	5.0		ug/L			03/26/24 14:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 14:44	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/26/24 14:44	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/26/24 14:44	1
Naphthalene	2.0	U	2.0		ug/L			03/26/24 14:44	1
o-Xylene	1.0	U	1.0		ug/L			03/26/24 14:44	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 14:44	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 14:44	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 14:44	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/26/24 14:44	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/26/24 14:44	1
Ethyl methacrylate	3.0	U	3.0		ug/L			03/26/24 14:44	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 14:44	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/26/24 14:44	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/26/24 14:44	1
Xylenes, Total	1.0	U	1.0		ug/L			03/26/24 14:44	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			03/26/24 14:44	1

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

Client Sample ID: MPE-15
Lab Sample ID: 280-189130-14
Date Collected: 03/21/24 13:46
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/26/24 14:44	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/26/24 14:44	1
Total BTEX	1.0	U	1.0		ug/L			03/26/24 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 127*		*03/26/24 14:44*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 120*		*03/26/24 14:44*	*1*
Toluene-d8 (Surr)	*94*		*80 - 125*		*03/26/24 14:44*	*1*
4-Bromofluorobenzene (Surr)	*89*		*78 - 120*		*03/26/24 14:44*	*1*

Client Sample ID: MPE-16
Lab Sample ID: 280-189130-15
Date Collected: 03/21/24 14:05
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/26/24 15:05	1
Styrene	1.0	U	1.0		ug/L			03/26/24 15:05	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 15:05	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 15:05	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/26/24 15:05	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 15:05	1
4-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 15:05	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 15:05	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/26/24 15:05	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/26/24 15:05	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 15:05	1
Acrylonitrile	20	U	20		ug/L			03/26/24 15:05	1
Vinyl acetate	3.0	U	3.0		ug/L			03/26/24 15:05	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/26/24 15:05	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 15:05	1
Bromobenzene	1.0	U	1.0		ug/L			03/26/24 15:05	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/26/24 15:05	1
Toluene	1.0	U	1.0		ug/L			03/26/24 15:05	1
Chlorobenzene	1.0	U	1.0		ug/L			03/26/24 15:05	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/26/24 15:05	1
Hexane	2.0	U	2.0		ug/L			03/26/24 15:05	1
Cyclohexane	1.0	U	1.0		ug/L			03/26/24 15:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/26/24 15:05	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/26/24 15:05	1
Tetrachloroethene	**35**		1.0		ug/L			03/26/24 15:05	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 15:05	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 15:05	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 15:05	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 15:05	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/26/24 15:05	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/26/24 15:05	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 15:05	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/26/24 15:05	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/26/24 15:05	1
2-Hexanone	5.0	U	5.0		ug/L			03/26/24 15:05	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 15:05	1

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

Client Sample ID: MPE-16
Date Collected: 03/21/24 14:05
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	2.0	U	2.0		ug/L			03/26/24 15:05	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 15:05	1
Acetone	**52**		15		ug/L			03/26/24 15:05	1
Chloroform	1.0	U	1.0		ug/L			03/26/24 15:05	1
Benzene	1.0	U	1.0		ug/L			03/26/24 15:05	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 15:05	1
Bromomethane	5.0	U	5.0		ug/L			03/26/24 15:05	1
Chloromethane	2.0	U	2.0		ug/L			03/26/24 15:05	1
Iodomethane	5.0	U	5.0		ug/L			03/26/24 15:05	1
Dibromomethane	1.0	U	1.0		ug/L			03/26/24 15:05	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/26/24 15:05	1
Chloroethane	4.0	U	4.0		ug/L			03/26/24 15:05	1
Vinyl chloride	2.0	U	2.0		ug/L			03/26/24 15:05	1
Methylene Chloride	2.0	U	2.0		ug/L			03/26/24 15:05	1
Carbon disulfide	2.0	U	2.0		ug/L			03/26/24 15:05	1
Bromoform	2.0	U	2.0		ug/L			03/26/24 15:05	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/26/24 15:05	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 15:05	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 15:05	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/26/24 15:05	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/26/24 15:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/26/24 15:05	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 15:05	1
2-Butanone (MEK)	15	U	15		ug/L			03/26/24 15:05	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 15:05	1
Trichloroethene	1.0	U	1.0		ug/L			03/26/24 15:05	1
Methyl acetate	5.0	U	5.0		ug/L			03/26/24 15:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 15:05	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/26/24 15:05	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/26/24 15:05	1
Naphthalene	2.0	U	2.0		ug/L			03/26/24 15:05	1
o-Xylene	1.0	U	1.0		ug/L			03/26/24 15:05	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 15:05	1
1,2-Dichlorobenzene	**1.4**		1.0		ug/L			03/26/24 15:05	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 15:05	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/26/24 15:05	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/26/24 15:05	1
Ethyl methacrylate	3.0	U	3.0		ug/L			03/26/24 15:05	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 15:05	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/26/24 15:05	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/26/24 15:05	1
Xylenes, Total	1.0	U	1.0		ug/L			03/26/24 15:05	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			03/26/24 15:05	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/26/24 15:05	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/26/24 15:05	1
Total BTEX	1.0	U	1.0		ug/L			03/26/24 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 127*		*03/26/24 15:05*	*1*
Dibromofluoromethane (Surr)	*95*		*77 - 120*		*03/26/24 15:05*	*1*

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

Client Sample ID: MPE-16
Date Collected: 03/21/24 14:05
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-15
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*93*		*80 - 125*		*03/26/24 15:05*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*03/26/24 15:05*	*1*

Client Sample ID: Trip Blank
Date Collected: 03/21/24 14:50
Date Received: 03/22/24 08:15
Lab Sample ID: 280-189130-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/26/24 10:46	1
Styrene	1.0	U	1.0		ug/L			03/26/24 10:46	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 10:46	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 10:46	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/26/24 10:46	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 10:46	1
4-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 10:46	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 10:46	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/26/24 10:46	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/26/24 10:46	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 10:46	1
Acrylonitrile	20	U	20		ug/L			03/26/24 10:46	1
Vinyl acetate	3.0	U	3.0		ug/L			03/26/24 10:46	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/26/24 10:46	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 10:46	1
Bromobenzene	1.0	U	1.0		ug/L			03/26/24 10:46	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/26/24 10:46	1
Toluene	1.0	U	1.0		ug/L			03/26/24 10:46	1
Chlorobenzene	1.0	U	1.0		ug/L			03/26/24 10:46	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/26/24 10:46	1
Hexane	2.0	U	2.0		ug/L			03/26/24 10:46	1
Cyclohexane	1.0	U	1.0		ug/L			03/26/24 10:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/26/24 10:46	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/26/24 10:46	1
Tetrachloroethene	1.0	U	1.0		ug/L			03/26/24 10:46	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 10:46	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 10:46	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 10:46	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 10:46	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/26/24 10:46	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/26/24 10:46	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 10:46	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/26/24 10:46	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/26/24 10:46	1
2-Hexanone	5.0	U	5.0		ug/L			03/26/24 10:46	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 10:46	1
Ethyl ether	2.0	U	2.0		ug/L			03/26/24 10:46	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 10:46	1
Acetone	15	U	15		ug/L			03/26/24 10:46	1
Chloroform	1.0	U	1.0		ug/L			03/26/24 10:46	1
Benzene	1.0	U	1.0		ug/L			03/26/24 10:46	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 10:46	1

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

Client Sample ID: Trip Blank
Lab Sample ID: 280-189130-16
Date Collected: 03/21/24 14:50
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	5.0	U	5.0		ug/L			03/26/24 10:46	1
Chloromethane	2.0	U	2.0		ug/L			03/26/24 10:46	1
Iodomethane	5.0	U	5.0		ug/L			03/26/24 10:46	1
Dibromomethane	1.0	U	1.0		ug/L			03/26/24 10:46	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/26/24 10:46	1
Chloroethane	4.0	U	4.0		ug/L			03/26/24 10:46	1
Vinyl chloride	2.0	U	2.0		ug/L			03/26/24 10:46	1
Methylene Chloride	2.0	U	2.0		ug/L			03/26/24 10:46	1
Carbon disulfide	2.0	U	2.0		ug/L			03/26/24 10:46	1
Bromoform	2.0	U	2.0		ug/L			03/26/24 10:46	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/26/24 10:46	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 10:46	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 10:46	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/26/24 10:46	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/26/24 10:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/26/24 10:46	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 10:46	1
2-Butanone (MEK)	15	U	15		ug/L			03/26/24 10:46	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 10:46	1
Trichloroethene	1.0	U	1.0		ug/L			03/26/24 10:46	1
Methyl acetate	5.0	U	5.0		ug/L			03/26/24 10:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 10:46	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/26/24 10:46	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/26/24 10:46	1
Naphthalene	2.0	U	2.0		ug/L			03/26/24 10:46	1
o-Xylene	1.0	U	1.0		ug/L			03/26/24 10:46	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 10:46	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 10:46	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 10:46	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/26/24 10:46	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/26/24 10:46	1
Ethyl methacrylate	3.0	U	3.0		ug/L			03/26/24 10:46	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 10:46	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/26/24 10:46	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/26/24 10:46	1
Xylenes, Total	1.0	U	1.0		ug/L			03/26/24 10:46	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			03/26/24 10:46	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/26/24 10:46	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/26/24 10:46	1
Total BTEX	1.0	U	1.0		ug/L			03/26/24 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 127*		*03/26/24 10:46*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 120*		*03/26/24 10:46*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*03/26/24 10:46*	*1*
4-Bromofluorobenzene (Surr)	*91*		*78 - 120*		*03/26/24 10:46*	*1*

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

Client Sample ID: MPE-01 DUP
Date Collected: 03/21/24 12:44
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	50	U	50		ug/L			03/26/24 15:27	50
Styrene	50	U	50		ug/L			03/26/24 15:27	50
cis-1,3-Dichloropropene	100	U	100		ug/L			03/26/24 15:27	50
trans-1,3-Dichloropropene	100	U	100		ug/L			03/26/24 15:27	50
N-Propylbenzene	50	U	50		ug/L			03/26/24 15:27	50
n-Butylbenzene	50	U	50		ug/L			03/26/24 15:27	50
4-Chlorotoluene	50	U	50		ug/L			03/26/24 15:27	50
1,4-Dichlorobenzene	50	U	50		ug/L			03/26/24 15:27	50
Ethylene Dibromide	50	U	50		ug/L			03/26/24 15:27	50
3-Chloro-1-propene	100	U	100		ug/L			03/26/24 15:27	50
1,2-Dichloroethane	50	U	50		ug/L			03/26/24 15:27	50
Acrylonitrile	1000	U	1000		ug/L			03/26/24 15:27	50
Vinyl acetate	150	U	150		ug/L			03/26/24 15:27	50
4-Methyl-2-pentanone (MIBK)	250	U	250		ug/L			03/26/24 15:27	50
1,3,5-Trimethylbenzene	50	U	50		ug/L			03/26/24 15:27	50
Bromobenzene	50	U	50		ug/L			03/26/24 15:27	50
Methylcyclohexane	50	U	50		ug/L			03/26/24 15:27	50
Toluene	50	U	50		ug/L			03/26/24 15:27	50
Chlorobenzene	50	U	50		ug/L			03/26/24 15:27	50
Tetrahydrofuran	350	U	350		ug/L			03/26/24 15:27	50
Hexane	100	U	100		ug/L			03/26/24 15:27	50
Cyclohexane	50	U	50		ug/L			03/26/24 15:27	50
1,2,4-Trichlorobenzene	50	U	50		ug/L			03/26/24 15:27	50
Chlorodibromomethane	100	U	100		ug/L			03/26/24 15:27	50
Tetrachloroethene	**5400**		50		ug/L			03/26/24 15:27	50
sec-Butylbenzene	50	U	50		ug/L			03/26/24 15:27	50
1,3-Dichloropropane	50	U	50		ug/L			03/26/24 15:27	50
cis-1,2-Dichloroethene	50	U	50		ug/L			03/26/24 15:27	50
trans-1,2-Dichloroethene	50	U	50		ug/L			03/26/24 15:27	50
Methyl tert-butyl ether	250	U	250		ug/L			03/26/24 15:27	50
m-Xylene & p-Xylene	100	U	100		ug/L			03/26/24 15:27	50
1,3-Dichlorobenzene	50	U	50		ug/L			03/26/24 15:27	50
Carbon tetrachloride	50	U	50		ug/L			03/26/24 15:27	50
1,1-Dichloropropene	50	U	50		ug/L			03/26/24 15:27	50
2-Hexanone	250	U	250		ug/L			03/26/24 15:27	50
2,2-Dichloropropane	50	U	50		ug/L			03/26/24 15:27	50
Ethyl ether	100	U	100		ug/L			03/26/24 15:27	50
1,1,1,2-Tetrachloroethane	50	U	50		ug/L			03/26/24 15:27	50
Acetone	750	U	750		ug/L			03/26/24 15:27	50
Chloroform	50	U	50		ug/L			03/26/24 15:27	50
Benzene	50	U	50		ug/L			03/26/24 15:27	50
1,1,1-Trichloroethane	50	U	50		ug/L			03/26/24 15:27	50
Bromomethane	250	U	250		ug/L			03/26/24 15:27	50
Chloromethane	100	U	100		ug/L			03/26/24 15:27	50
Iodomethane	250	U	250		ug/L			03/26/24 15:27	50
Dibromomethane	50	U	50		ug/L			03/26/24 15:27	50
Chlorobromomethane	50	U	50		ug/L			03/26/24 15:27	50
Chloroethane	200	U	200		ug/L			03/26/24 15:27	50
Vinyl chloride	100	U	100		ug/L			03/26/24 15:27	50

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

Client Sample ID: MPE-01 DUP
Lab Sample ID: 280-189130-17
Date Collected: 03/21/24 12:44
Matrix: Water
Date Received: 03/22/24 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	100	U	100		ug/L			03/26/24 15:27	50
Carbon disulfide	100	U	100		ug/L			03/26/24 15:27	50
Bromoform	100	U	100		ug/L			03/26/24 15:27	50
Dichlorobromomethane	50	U	50		ug/L			03/26/24 15:27	50
1,1-Dichloroethane	50	U	50		ug/L			03/26/24 15:27	50
1,1-Dichloroethene	50	U	50		ug/L			03/26/24 15:27	50
Trichlorofluoromethane	100	U	100		ug/L			03/26/24 15:27	50
Dichlorodifluoromethane	150	U	150		ug/L			03/26/24 15:27	50
1,1,2-Trichloro-1,2,2-trifluoroethane	150	U	150		ug/L			03/26/24 15:27	50
1,2-Dichloropropane	50	U	50		ug/L			03/26/24 15:27	50
2-Butanone (MEK)	750	U	750		ug/L			03/26/24 15:27	50
1,1,2-Trichloroethane	50	U	50		ug/L			03/26/24 15:27	50
Trichloroethene	**170**		50		ug/L			03/26/24 15:27	50
Methyl acetate	250	U	250		ug/L			03/26/24 15:27	50
1,1,2,2-Tetrachloroethane	50	U	50		ug/L			03/26/24 15:27	50
1,2,3-Trichlorobenzene	100	U	100		ug/L			03/26/24 15:27	50
Hexachlorobutadiene	100	U	100		ug/L			03/26/24 15:27	50
Naphthalene	100	U	100		ug/L			03/26/24 15:27	50
o-Xylene	50	U	50		ug/L			03/26/24 15:27	50
2-Chlorotoluene	50	U	50		ug/L			03/26/24 15:27	50
1,2-Dichlorobenzene	50	U	50		ug/L			03/26/24 15:27	50
1,2,4-Trimethylbenzene	50	U	50		ug/L			03/26/24 15:27	50
1,2-Dibromo-3-Chloropropane	250	U	250		ug/L			03/26/24 15:27	50
1,2,3-Trichloropropane	130	U	130		ug/L			03/26/24 15:27	50
Ethyl methacrylate	150	U	150		ug/L			03/26/24 15:27	50
tert-Butylbenzene	50	U	50		ug/L			03/26/24 15:27	50
Isopropylbenzene	50	U	50		ug/L			03/26/24 15:27	50
4-Isopropyltoluene	50	U	50		ug/L			03/26/24 15:27	50
Xylenes, Total	50	U	50		ug/L			03/26/24 15:27	50
1,2-Dichloroethene, Total	50	U	50		ug/L			03/26/24 15:27	50
1,3-Dichloropropene, Total	100	U	100		ug/L			03/26/24 15:27	50
Trihalomethanes, Total	50	U	50		ug/L			03/26/24 15:27	50
Total BTEX	50	U	50		ug/L			03/26/24 15:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 127*		*03/26/24 15:27*	*50*
Dibromofluoromethane (Surr)	*92*		*77 - 120*		*03/26/24 15:27*	*50*
Toluene-d8 (Surr)	*95*		*80 - 125*		*03/26/24 15:27*	*50*
4-Bromofluorobenzene (Surr)	*91*		*78 - 120*		*03/26/24 15:27*	*50*

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189130-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-127)	(77-120)	(80-125)	(78-120)
280-189130-1	MPE-01	81	92	96	92
280-189130-2	MPE-02	82	94	96	91
280-189130-3	MPE-03	84	93	95	90
280-189130-4	MPE-04	85	96	93	91
280-189130-5	MPE-05	84	95	92	90
280-189130-6	MPE-06	84	95	97	90
280-189130-7	MPE-08	84	93	95	92
280-189130-8	MPE-09	84	94	93	90
280-189130-9	MPE-10	83	91	96	90
280-189130-10	Trip Blank	82	93	98	89
280-189130-11	MPE-11	84	93	95	92
280-189130-12	MPE-12	83	93	96	90
280-189130-13	MPE-13	84	93	94	91
280-189130-14	MPE-15	84	94	94	89
280-189130-15	MPE-16	86	95	93	93
280-189130-16	Trip Blank	83	94	95	91
280-189130-17	MPE-01 DUP	82	92	95	91
LCS 280-647102/4	Lab Control Sample	82	93	94	91
LCSD 280-647102/5	Lab Control Sample Dup	82	93	96	93
MB 280-647102/9	Method Blank	83	95	94	91

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-647102/9
Matrix: Water
Analysis Batch: 647102

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			03/26/24 09:45	1
Styrene	1.0	U	1.0		ug/L			03/26/24 09:45	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 09:45	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			03/26/24 09:45	1
N-Propylbenzene	1.0	U	1.0		ug/L			03/26/24 09:45	1
n-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 09:45	1
4-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 09:45	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 09:45	1
Ethylene Dibromide	1.0	U	1.0		ug/L			03/26/24 09:45	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			03/26/24 09:45	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 09:45	1
Acrylonitrile	20	U	20		ug/L			03/26/24 09:45	1
Vinyl acetate	3.0	U	3.0		ug/L			03/26/24 09:45	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			03/26/24 09:45	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 09:45	1
Bromobenzene	1.0	U	1.0		ug/L			03/26/24 09:45	1
Methylcyclohexane	1.0	U	1.0		ug/L			03/26/24 09:45	1
Toluene	1.0	U	1.0		ug/L			03/26/24 09:45	1
Chlorobenzene	1.0	U	1.0		ug/L			03/26/24 09:45	1
Tetrahydrofuran	7.0	U	7.0		ug/L			03/26/24 09:45	1
Hexane	2.0	U	2.0		ug/L			03/26/24 09:45	1
Cyclohexane	1.0	U	1.0		ug/L			03/26/24 09:45	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			03/26/24 09:45	1
Chlorodibromomethane	2.0	U	2.0		ug/L			03/26/24 09:45	1
Tetrachloroethene	1.0	U	1.0		ug/L			03/26/24 09:45	1
sec-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 09:45	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 09:45	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 09:45	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 09:45	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			03/26/24 09:45	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			03/26/24 09:45	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 09:45	1
Carbon tetrachloride	1.0	U	1.0		ug/L			03/26/24 09:45	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			03/26/24 09:45	1
2-Hexanone	5.0	U	5.0		ug/L			03/26/24 09:45	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 09:45	1
Ethyl ether	2.0	U	2.0		ug/L			03/26/24 09:45	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 09:45	1
Acetone	15	U	15		ug/L			03/26/24 09:45	1
Chloroform	1.0	U	1.0		ug/L			03/26/24 09:45	1
Benzene	1.0	U	1.0		ug/L			03/26/24 09:45	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 09:45	1
Bromomethane	5.0	U	5.0		ug/L			03/26/24 09:45	1
Chloromethane	2.0	U	2.0		ug/L			03/26/24 09:45	1
Iodomethane	5.0	U	5.0		ug/L			03/26/24 09:45	1
Dibromomethane	1.0	U	1.0		ug/L			03/26/24 09:45	1
Chlorobromomethane	1.0	U	1.0		ug/L			03/26/24 09:45	1
Chloroethane	4.0	U	4.0		ug/L			03/26/24 09:45	1

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

Lab Sample ID: MB 280-647102/9
Matrix: Water
Analysis Batch: 647102

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0		ug/L			03/26/24 09:45	1
Methylene Chloride	2.0	U	2.0		ug/L			03/26/24 09:45	1
Carbon disulfide	2.0	U	2.0		ug/L			03/26/24 09:45	1
Bromoform	2.0	U	2.0		ug/L			03/26/24 09:45	1
Dichlorobromomethane	1.0	U	1.0		ug/L			03/26/24 09:45	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/26/24 09:45	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			03/26/24 09:45	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			03/26/24 09:45	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			03/26/24 09:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			03/26/24 09:45	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			03/26/24 09:45	1
2-Butanone (MEK)	15	U	15		ug/L			03/26/24 09:45	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			03/26/24 09:45	1
Trichloroethene	1.0	U	1.0		ug/L			03/26/24 09:45	1
Methyl acetate	5.0	U	5.0		ug/L			03/26/24 09:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			03/26/24 09:45	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			03/26/24 09:45	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			03/26/24 09:45	1
Naphthalene	2.0	U	2.0		ug/L			03/26/24 09:45	1
o-Xylene	1.0	U	1.0		ug/L			03/26/24 09:45	1
2-Chlorotoluene	1.0	U	1.0		ug/L			03/26/24 09:45	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			03/26/24 09:45	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			03/26/24 09:45	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			03/26/24 09:45	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			03/26/24 09:45	1
Ethyl methacrylate	3.0	U	3.0		ug/L			03/26/24 09:45	1
tert-Butylbenzene	1.0	U	1.0		ug/L			03/26/24 09:45	1
Isopropylbenzene	1.0	U	1.0		ug/L			03/26/24 09:45	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			03/26/24 09:45	1
Xylenes, Total	1.0	U	1.0		ug/L			03/26/24 09:45	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			03/26/24 09:45	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			03/26/24 09:45	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			03/26/24 09:45	1
Total BTEX	1.0	U	1.0		ug/L			03/26/24 09:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 127*		*03/26/24 09:45*	*1*
Dibromofluoromethane (Surr)	*95*		*77 - 120*		*03/26/24 09:45*	*1*
Toluene-d8 (Surr)	*94*		*80 - 125*		*03/26/24 09:45*	*1*
4-Bromofluorobenzene (Surr)	*91*		*78 - 120*		*03/26/24 09:45*	*1*

Lab Sample ID: LCS 280-647102/4
Matrix: Water
Analysis Batch: 647102

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	53.6		ug/L		107	76 - 121
Styrene	50.0	52.1		ug/L		104	79 - 120

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

Lab Sample ID: LCS 280-647102/4
Matrix: Water
Analysis Batch: 647102

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	50.0	51.1		ug/L		102	75 - 120
trans-1,3-Dichloropropene	50.0	48.9		ug/L		98	66 - 127
N-Propylbenzene	50.0	53.6		ug/L		107	73 - 127
n-Butylbenzene	50.0	49.5		ug/L		99	69 - 130
4-Chlorotoluene	50.0	54.8		ug/L		110	74 - 124
1,4-Dichlorobenzene	50.0	52.4		ug/L		105	76 - 119
Ethylene Dibromide	50.0	52.3		ug/L		105	81 - 118
3-Chloro-1-propene	50.0	54.1		ug/L		108	57 - 136
1,2-Dichloroethane	50.0	45.0		ug/L		90	61 - 130
Acrylonitrile	500	469		ug/L		94	65 - 133
Vinyl acetate	100	101		ug/L		101	61 - 139
4-Methyl-2-pentanone (MIBK)	200	174		ug/L		87	56 - 135
1,3,5-Trimethylbenzene	50.0	49.0		ug/L		98	73 - 127
Bromobenzene	50.0	52.0		ug/L		104	75 - 122
Methylcyclohexane	50.0	48.9		ug/L		98	58 - 136
Toluene	50.0	49.4		ug/L		99	68 - 127
Chlorobenzene	50.0	53.3		ug/L		107	78 - 118
Tetrahydrofuran	100	90.8		ug/L		91	50 - 139
Hexane	50.0	55.8		ug/L		112	52 - 139
Cyclohexane	50.0	51.7		ug/L		103	57 - 134
1,2,4-Trichlorobenzene	50.0	48.6		ug/L		97	73 - 124
Chlorodibromomethane	50.0	50.5		ug/L		101	71 - 122
Tetrachloroethene	50.0	54.5		ug/L		109	72 - 127
sec-Butylbenzene	50.0	52.9		ug/L		106	72 - 127
1,3-Dichloropropane	50.0	50.3		ug/L		101	80 - 118
cis-1,2-Dichloroethene	50.0	56.3		ug/L		113	69 - 126
trans-1,2-Dichloroethene	50.0	57.7		ug/L		115	66 - 129
Methyl tert-butyl ether	50.0	48.0		ug/L		96	70 - 127
m-Xylene & p-Xylene	50.0	53.1		ug/L		106	76 - 122
1,3-Dichlorobenzene	50.0	51.8		ug/L		104	76 - 121
Carbon tetrachloride	50.0	46.4		ug/L		93	60 - 133
1,1-Dichloropropene	50.0	51.8		ug/L		104	64 - 133
2-Hexanone	200	165		ug/L		82	58 - 134
2,2-Dichloropropane	50.0	50.3		ug/L		101	57 - 140
Ethyl ether	50.0	52.6		ug/L		105	66 - 129
1,1,1,2-Tetrachloroethane	50.0	50.8		ug/L		102	74 - 121
Acetone	200	179		ug/L		89	50 - 137
Chloroform	50.0	48.3		ug/L		97	68 - 128
Benzene	50.0	53.3		ug/L		107	69 - 126
1,1,1-Trichloroethane	50.0	47.0		ug/L		94	62 - 132
Bromomethane	50.0	45.8		ug/L		92	25 - 163
Chloromethane	50.0	45.8		ug/L		92	43 - 142
Iodomethane	50.0	57.1		ug/L		114	37 - 145
Dibromomethane	50.0	50.5		ug/L		101	68 - 129
Chlorobromomethane	50.0	61.0		ug/L		122	71 - 130
Chloroethane	50.0	56.8		ug/L		114	52 - 144
Vinyl chloride	50.0	50.5		ug/L		101	53 - 141
Methylene Chloride	50.0	51.4		ug/L		103	64 - 128
Carbon disulfide	50.0	57.2		ug/L		114	56 - 128

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

Lab Sample ID: LCS 280-647102/4
Matrix: Water
Analysis Batch: 647102

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	50.0	49.0		ug/L		98	57 - 125
Dichlorobromomethane	50.0	48.3		ug/L		97	67 - 126
1,1-Dichloroethane	50.0	50.8		ug/L		102	66 - 130
1,1-Dichloroethene	50.0	56.9		ug/L		114	62 - 130
Trichlorofluoromethane	50.0	43.4		ug/L		87	57 - 144
Dichlorodifluoromethane	50.0	36.1		ug/L		72	26 - 152
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	59.4		ug/L		119	60 - 137
1,2-Dichloropropane	50.0	51.6		ug/L		103	68 - 127
2-Butanone (MEK)	200	162		ug/L		81	53 - 135
1,1,2-Trichloroethane	50.0	53.2		ug/L		106	72 - 128
Trichloroethene	50.0	51.2		ug/L		102	70 - 125
Methyl acetate	100	88.0		ug/L		88	59 - 133
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/L		98	72 - 122
1,2,3-Trichlorobenzene	50.0	42.9		ug/L		86	70 - 127
Hexachlorobutadiene	50.0	44.3		ug/L		89	69 - 133
Naphthalene	50.0	40.4		ug/L		81	63 - 129
o-Xylene	50.0	53.8		ug/L		108	77 - 120
2-Chlorotoluene	50.0	53.0		ug/L		106	75 - 123
1,2-Dichlorobenzene	50.0	49.9		ug/L		100	77 - 121
1,2,4-Trimethylbenzene	50.0	50.1		ug/L		100	74 - 124
1,2-Dibromo-3-Chloropropane	50.0	42.9		ug/L		86	58 - 122
1,2,3-Trichloropropane	50.0	48.6		ug/L		97	74 - 123
Ethyl methacrylate	50.0	46.4		ug/L		93	69 - 126
tert-Butylbenzene	50.0	50.3		ug/L		101	72 - 126
Isopropylbenzene	50.0	50.8		ug/L		102	70 - 127
4-Isopropyltoluene	50.0	50.5		ug/L		101	74 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 127*
Dibromofluoromethane (Surr)	*93*		*77 - 120*
Toluene-d8 (Surr)	*94*		*80 - 125*
4-Bromofluorobenzene (Surr)	*91*		*78 - 120*

Lab Sample ID: LCSD 280-647102/5
Matrix: Water
Analysis Batch: 647102

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
Ethylbenzene	50.0	51.5		ug/L		103	76 - 121	4	20
Styrene	50.0	51.2		ug/L		102	79 - 120	2	20
cis-1,3-Dichloropropene	50.0	49.1		ug/L		98	75 - 120	4	20
trans-1,3-Dichloropropene	50.0	46.2		ug/L		92	66 - 127	6	20
N-Propylbenzene	50.0	51.2		ug/L		102	73 - 127	5	20
n-Butylbenzene	50.0	46.8		ug/L		94	69 - 130	5	20
4-Chlorotoluene	50.0	52.8		ug/L		106	74 - 124	4	20
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	76 - 119	4	20
Ethylene Dibromide	50.0	50.7		ug/L		101	81 - 118	3	20
3-Chloro-1-propene	50.0	50.7		ug/L		101	57 - 136	6	20

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

Lab Sample ID: LCSD 280-647102/5
Matrix: Water
Analysis Batch: 647102

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-Dichloroethane	50.0	42.7		ug/L		85	61 - 130	5	20
Acrylonitrile	500	454		ug/L		91	65 - 133	3	20
Vinyl acetate	100	96.2		ug/L		96	61 - 139	4	23
4-Methyl-2-pentanone (MIBK)	200	171		ug/L		85	56 - 135	2	20
1,3,5-Trimethylbenzene	50.0	47.0		ug/L		94	73 - 127	4	20
Bromobenzene	50.0	50.0		ug/L		100	75 - 122	4	20
Methylcyclohexane	50.0	42.9		ug/L		86	58 - 136	13	21
Toluene	50.0	46.8		ug/L		94	68 - 127	6	20
Chlorobenzene	50.0	51.6		ug/L		103	78 - 118	3	20
Tetrahydrofuran	100	83.5		ug/L		83	50 - 139	8	20
Hexane	50.0	48.9		ug/L		98	52 - 139	13	23
Cyclohexane	50.0	44.9		ug/L		90	57 - 134	14	32
1,2,4-Trichlorobenzene	50.0	48.7		ug/L		97	73 - 124	0	20
Chlorodibromomethane	50.0	49.8		ug/L		100	71 - 122	1	20
Tetrachloroethene	50.0	51.5		ug/L		103	72 - 127	6	20
sec-Butylbenzene	50.0	49.2		ug/L		98	72 - 127	7	20
1,3-Dichloropropane	50.0	49.2		ug/L		98	80 - 118	2	20
cis-1,2-Dichloroethene	50.0	53.5		ug/L		107	69 - 126	5	20
trans-1,2-Dichloroethene	50.0	53.7		ug/L		107	66 - 129	7	20
Methyl tert-butyl ether	50.0	45.1		ug/L		90	70 - 127	6	20
m-Xylene & p-Xylene	50.0	51.8		ug/L		104	76 - 122	2	20
1,3-Dichlorobenzene	50.0	50.6		ug/L		101	76 - 121	2	20
Carbon tetrachloride	50.0	42.0		ug/L		84	60 - 133	10	20
1,1-Dichloropropene	50.0	46.9		ug/L		94	64 - 133	10	20
2-Hexanone	200	166		ug/L		83	58 - 134	1	21
2,2-Dichloropropane	50.0	46.7		ug/L		93	57 - 140	7	22
Ethyl ether	50.0	50.2		ug/L		100	66 - 129	5	20
1,1,1,2-Tetrachloroethane	50.0	49.3		ug/L		99	74 - 121	3	20
Acetone	200	171		ug/L		85	50 - 137	5	21
Chloroform	50.0	45.6		ug/L		91	68 - 128	6	20
Benzene	50.0	50.6		ug/L		101	69 - 126	5	20
1,1,1-Trichloroethane	50.0	42.3		ug/L		85	62 - 132	10	20
Bromomethane	50.0	44.9		ug/L		90	25 - 163	2	40
Chloromethane	50.0	45.1		ug/L		90	43 - 142	1	20
Iodomethane	50.0	57.5		ug/L		115	37 - 145	1	38
Dibromomethane	50.0	49.3		ug/L		99	68 - 129	2	20
Chlorobromomethane	50.0	56.8		ug/L		114	71 - 130	7	20
Chloroethane	50.0	53.8		ug/L		108	52 - 144	5	30
Vinyl chloride	50.0	48.0		ug/L		96	53 - 141	5	25
Methylene Chloride	50.0	48.4		ug/L		97	64 - 128	6	20
Carbon disulfide	50.0	52.1		ug/L		104	56 - 128	9	20
Bromoform	50.0	47.7		ug/L		95	57 - 125	3	20
Dichlorobromomethane	50.0	46.0		ug/L		92	67 - 126	5	20
1,1-Dichloroethane	50.0	48.7		ug/L		97	66 - 130	4	20
1,1-Dichloroethene	50.0	52.0		ug/L		104	62 - 130	9	21
Trichlorofluoromethane	50.0	43.3		ug/L		87	57 - 144	0	28
Dichlorodifluoromethane	50.0	36.8		ug/L		74	26 - 152	2	21
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.1		ug/L		98	60 - 137	19	23

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

Lab Sample ID: LCSD 280-647102/5
Matrix: Water
Analysis Batch: 647102

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	48.4		ug/L		97	68 - 127	6	20
2-Butanone (MEK)	200	159		ug/L		80	53 - 135	2	20
1,1,2-Trichloroethane	50.0	50.5		ug/L		101	72 - 128	5	20
Trichloroethene	50.0	48.7		ug/L		97	70 - 125	5	20
Methyl acetate	100	86.8		ug/L		87	59 - 133	1	20
1,1,2,2-Tetrachloroethane	50.0	47.6		ug/L		95	72 - 122	3	20
1,2,3-Trichlorobenzene	50.0	46.4		ug/L		93	70 - 127	8	20
Hexachlorobutadiene	50.0	41.2		ug/L		82	69 - 133	7	20
Naphthalene	50.0	46.7		ug/L		93	63 - 129	15	21
o-Xylene	50.0	52.7		ug/L		105	77 - 120	2	20
2-Chlorotoluene	50.0	51.6		ug/L		103	75 - 123	3	20
1,2-Dichlorobenzene	50.0	48.9		ug/L		98	77 - 121	2	20
1,2,4-Trimethylbenzene	50.0	47.7		ug/L		95	74 - 124	5	20
1,2-Dibromo-3-Chloropropane	50.0	45.5		ug/L		91	58 - 122	6	21
1,2,3-Trichloropropane	50.0	46.8		ug/L		94	74 - 123	4	20
Ethyl methacrylate	50.0	46.5		ug/L		93	69 - 126	0	20
tert-Butylbenzene	50.0	47.9		ug/L		96	72 - 126	5	20
Isopropylbenzene	50.0	47.8		ug/L		96	70 - 127	6	20
4-Isopropyltoluene	50.0	46.9		ug/L		94	74 - 127	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 127*
Dibromofluoromethane (Surr)	*93*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189130-1

GC/MS VOA

Analysis Batch: 647102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189130-1	MPE-01	Total/NA	Water	8260D	
280-189130-2	MPE-02	Total/NA	Water	8260D	
280-189130-3	MPE-03	Total/NA	Water	8260D	
280-189130-4	MPE-04	Total/NA	Water	8260D	
280-189130-5	MPE-05	Total/NA	Water	8260D	
280-189130-6	MPE-06	Total/NA	Water	8260D	
280-189130-7	MPE-08	Total/NA	Water	8260D	
280-189130-8	MPE-09	Total/NA	Water	8260D	
280-189130-9	MPE-10	Total/NA	Water	8260D	
280-189130-10	Trip Blank	Total/NA	Water	8260D	
280-189130-11	MPE-11	Total/NA	Water	8260D	
280-189130-12	MPE-12	Total/NA	Water	8260D	
280-189130-13	MPE-13	Total/NA	Water	8260D	
280-189130-14	MPE-15	Total/NA	Water	8260D	
280-189130-15	MPE-16	Total/NA	Water	8260D	
280-189130-16	Trip Blank	Total/NA	Water	8260D	
280-189130-17	MPE-01 DUP	Total/NA	Water	8260D	
MB 280-647102/9	Method Blank	Total/NA	Water	8260D	
LCS 280-647102/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-647102/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Client Sample ID: MPE-01
Date Collected: 03/21/24 12:44
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	647102	03/26/24 15:49	MD	EET DEN

Client Sample ID: MPE-02
Date Collected: 03/21/24 12:54
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	647102	03/26/24 12:12	MD	EET DEN

Client Sample ID: MPE-03
Date Collected: 03/21/24 13:35
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		4	5 mL	5 mL	647102	03/26/24 16:56	MD	EET DEN

Client Sample ID: MPE-04
Date Collected: 03/21/24 13:59
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	647102	03/26/24 12:34	MD	EET DEN

Client Sample ID: MPE-05
Date Collected: 03/21/24 14:10
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	647102	03/26/24 17:18	MD	EET DEN

Client Sample ID: MPE-06
Date Collected: 03/21/24 13:54
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	647102	03/26/24 12:56	MD	EET DEN

Client Sample ID: MPE-08
Date Collected: 03/21/24 13:29
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	647102	03/26/24 13:17	MD	EET DEN

Client Sample ID: MPE-09

Date Collected: 03/21/24 12:36
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		40	5 mL	5 mL	647102	03/26/24 16:12	MD	EET DEN

Client Sample ID: MPE-10

Date Collected: 03/21/24 13:04
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	647102	03/26/24 13:39	MD	EET DEN

Client Sample ID: Trip Blank

Date Collected: 03/21/24 14:50
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	647102	03/26/24 10:25	MD	EET DEN

Client Sample ID: MPE-11

Date Collected: 03/21/24 12:28
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-11
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		4	5 mL	5 mL	647102	03/26/24 16:34	MD	EET DEN

Client Sample ID: MPE-12

Date Collected: 03/21/24 11:41
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	647102	03/26/24 14:01	MD	EET DEN

Client Sample ID: MPE-13

Date Collected: 03/21/24 13:21
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	647102	03/26/24 14:22	MD	EET DEN

Client Sample ID: MPE-15

Date Collected: 03/21/24 13:46
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	647102	03/26/24 14:44	MD	EET DEN

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-189130-1

Client Sample ID: MPE-16

Date Collected: 03/21/24 14:05
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	647102	03/26/24 15:05	MD	EET DEN

Client Sample ID: Trip Blank

Date Collected: 03/21/24 14:50
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-16

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	647102	03/26/24 10:46	MD	EET DEN

Client Sample ID: MPE-01 DUP

Date Collected: 03/21/24 12:44
Date Received: 03/22/24 08:15

Lab Sample ID: 280-189130-17

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		50	5 mL	5 mL	647102	03/26/24 15:27	MD	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Job ID: 280-189130-1
Project/Site: ABC Cleaners, NC

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-24
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Rene Ramos	Lab PM: Norton, Michael R	Carrier Tracking No(s):	COC No:
Client Contact: Sanita Coburn	Phone:	E-Mail: Michael.Norton@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 2
Company: EA Engineering, Science, and Technology, Inc., PBC	PWSID:			Job #: 6347505.030000
Address: 225 Schilling Circle, Suite 400	Due Date Requested:			
City: Hunt Valley	TAT Requested (days): 5			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-329-5155 (Tel)	PO #: 24987			
Email: northeastlab@aaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024283			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D, VOCs, Standard List											Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	CB	B	N			
MPE-01	3/21/24	12:44	G	W			X											3	5-Day TAT
MPE-02	3/21/24	12:54	G	W			X											3	5-Day TAT
MPE-03	3/21/24	13:35	G	W			X											3	5-Day TAT
MPE-04	3/21/24	13:59	G	W			X											3	5-Day TAT
MPE-05	3/21/24	14:10	G	W			X											3	5-Day TAT
MPE-06	3/21/24	13:54	G	W			X											3	5-Day TAT
MPE-08	3/21/24	13:29	G	W			X											3	5-Day TAT
MPE-09	3/21/24	12:36	G	W			X											3	5-Day TAT
MPE-10	3/21/24	13:04	G	W			X											3	5-Day TAT
Trip Blank	3/21/24	14:50	G	W			X											2	5-Day TAT

Possible Hazard Identification
x Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client x Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
RENE RAMOS	03-21-24 1450	TTI			
Relinquished by:	Date/Time:	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody seal # 2398063

Cooler Temperature(s) °C and Other Remarks

Ver: 01/16/2019

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Rene Ramos	Lab PM: Norton, Michael R	Carrier Tracking No(s):	COC No:
Client Contact: Sanita Corum	Phone:	E-Mail: Michael.Norton@et.eurofinsus.com	State of Origin: NC	Page: Page 2 of 2
Company: EA Engineering, Science, and Technology, Inc., PBC	PWSID:			Job #: 6347505.030000
Address: 225 Schilling Circle Suite 400	Due Date Requested:			
City: Hunt Valley	TAT Requested (days): 5			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-329-5155 (Tel)	PO #: 24987			
Email: northeastap@eaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024283			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D, VOCs, Standard List										Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	N	N	N	N	CB	B	N		
MPE-11	3/21/24	12:28	G	W			X										3	5-Day TAT
MPE-12	3/21/24	11:41	G	W			X										3	5-Day TAT
MPE-13	3/21/24	13:21	G	W			X										3	5-Day TAT
MPE-15	3/21/24	13:46	G	W			X										3	5-Day TAT
MPE-16	3/21/24	14:05	G	W			X										3	5-Day TAT
Trip Blank	3/21/24	14:50	G	W			X										2	5-Day TAT
MPE-01 DUP	3/21/24	12:44	G	W			X										3	5 day TAT

Possible Hazard Identification
☐ x Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ x Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
RENE RAMOS	03-21-24/14:50	TTI			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody seal #: 23986063 | Cooler Temperature(s) °C and Other Remarks:

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Rene Ramos	Lab PM: Norton, Michael R	Carrier Tracking No(s):	COC No:
Client Contact: Sanita Coburn	Phone:	E-Mail: Michael.Norton@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 2
Company: EA Engineering, Science, and Technology, Inc., PBC	PWSID:			Job #: 6347505.030000
Address: 225 Schilling Circle Suite 400	Due Date Requested:			
City: Hunt Valley	TAT Requested (days): 5			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-329-5155 (Tel)	PO #: 24987			
Email: northeastlab@aest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024283			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D, VOCs, Standard List										Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	N	N	N	N	CB	B	N		
MPE-01	3/21/24	12:44	G	W			X										3	5-Day TAT
MPE-02	3/21/24	12:54	G	W			X										3	5-Day TAT
MPE-03	3/21/24	13:35	G	W			X										3	5-Day TAT
MPE-04	3/21/24	13:59	G	W			X										3	5-Day TAT
MPE-05	3/21/24	14:10	G	W			X										3	5-Day TAT
MPE-06	3/21/24	13:54	G	W			X										3	5-Day TAT
MPE-08	3/21/24	13:29	G	W			X										3	5-Day TAT
MPE-09	3/21/24	12:36	G	W			X										3	5-Day TAT
MPE-10	3/21/24	13:04	G	W			X										3	5-Day TAT
Trip Blank	3/21/24	14:50	G	W			X										2	5-Day TAT

Possible Hazard Identification
x Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client x Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
RENE RAMOS	03-21-24 1450	TTI			
Relinquished by:	Date/Time:	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody seal # 2398063

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

3/27/2024

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Rene Ramos	Lab PM: Norton, Michael R	Carrier Tracking No(s):	COC No:
Client Contact: Sanita Corum	Phone:	E-Mail: Michael.Norton@et.eurofinsus.com	State of Origin: NC	Page: Page 2 of 2
Company: EA Engineering, Science and Technology, Inc., PBC	PWSID:			Job #: 6347505.030000
Address: 225 Schilling Circle, Suite 400	Due Date Requested:			
City: Hunt Valley	TAT Requested (days): 5			
State, Zip: MD, 21031	Compliance Project: ☐ Yes ☐ No			
Phone: 410-329-5155 (Tel)	PO #: 24987			
Email: northeastap@eaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024283			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
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Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D, VOCs, Standard List	Total Number of containers	Special Instructions/Note
			Preservation Code:				N N N N N N N CB B N		
MPE-11	3/21/24	12:28	G	W			X	3	5-Day TAT
MPE-12	3/21/24	11:41	G	W			X	3	5-Day TAT
MPE 13	3/21/24	13:21	G	W			X	3	5-Day TAT
MPE-15	3/21/24	13:46	G	W			X	3	5-Day TAT
MPE-16	3/21/24	14:05	G	W			X	3	5-Day TAT
Trip Blank	3/21/24	14:50	G	W			X	2	5-Day TAT

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
RENE RAMOS	03-21-24/14:50	TTI			
Relinquished by:	Date/Time:	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody seal # 23756063

Cooler Temperature(s) °C and Other Remarks

Ver: 01/16/2019

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins !

Client Information	Sampler: Rene Ramos	Lab PM: Norton, Michael R	Carrier Tracking No(s)	COC No
Client Contact: Sanita Corum	Phone:	E-Mail: Michael.Norton@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 2
Company: EA Engineering, Science, and Technology, Inc., PBC	PWSID			Job #: 6347505.030000

Address: 225 Schilling Circle Suite 400
City: Hunt Valley
State, Zip: MD, 21031
Phone: 410-329-5155 (Tel)
Email: northeastap@eaest.com
Project Name: ABC Cleaners, NC
Site:

280-189130 Chain of Custody

Due Date Requested:
TAT Requested (days): 5
Compliance Project: Δ Yes Δ No
PO #: 24987
WO #:
Project #: 28024283
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D, VOCs, Standard List											Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	CB	B	N			
MPE-01	3/21/24		G	W			X											3	5-Day TAT
MPE-02	3/21/24		G	W			X											3	5-Day TAT
MPE-03	3/21/24		G	W			X											3	5-Day TAT
MPE-04	3/21/24		G	W			X											3	5-Day TAT
MPE-05	3/21/24		G	W			X											3	5-Day TAT
MPE-06	3/21/24		G	W			X											3	5-Day TAT
MPE-08	3/21/24		G	W			X											3	5-Day TAT
MPE-09	3/21/24		G	W			X											3	5-Day TAT
MPE-10	3/21/24		G	W			X											3	5-Day TAT
Trip Blank	3/21/24		G	W			X											2	5-Day TAT

Possible Hazard Identification
[x] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] Return To Client [x] Disposal By Lab [ ] Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date	Time	Method of Shipment

Relinquished by:	Date/Time:	Company	Received by	Date/Time	Company
RENE Ramos	03-21-24 14:50	TTI		3/22/24 8:15	~~EST~~ AGV
Relinquished by:	Date/Time	Company	Received by	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No
Custody seal # 239863
Cooler Temperature(s) °C and Other Remarks: 5.3 JR IR of 0.1

Ver: 01/16/2019

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins

Client Information	Sampler: Rene Ramos	Lab PM: Norton, Michael R	Carrier Tracking No(s):	COC No:
Client Contact: Sanita Corum	Phone:	E-Mail: Michael.Norton@et.eurofinsus.com	State of Origin: NC	Page: Page 2 of 2
Company: EA Engineering, Science, and Technology, Inc., PBC	PWSID:	Analysis Requested		Job #: 6347505.030000
Address: 225 Schilling Circle Suite 400	Due Date Requested:			Preservation Codes: A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other
City: Hunt Valley	TAT Requested (days): 5			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-329-5155 (Tel)	PO #: 24987			
Email: northeastlab@eaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024283			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D, VOCs, Standard List	Total Number of containers	Special Instructions/Note
			Preservation Code:				N N N N N N N CB B N		
MPE-11	3/21/24		G	W			X	3	5-Day TAT
MPE-12	3/21/24		G	W			X	3	5-Day TAT
MPE-13	3/21/24		G	W			X	3	5-Day TAT
MPE-15	3/21/24		G	W			X	3	5-Day TAT
MPE-16	3/21/24		G	W			X	3	5-Day TAT
Trip Blank 2	3/21/24		G	W			X	2	5-Day TAT
MPE-01 DUP	3/21/24		G	W			X	3	5-Day TAT

Possible Hazard Identification
x Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client x Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
RENE RAMOS	03-31-24/1450	TTE			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody seal # 2398063 | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

fedex.com 1.800.GoFedEx 1.800

Use this line for the HOLD location address or for continuation of your ...

City ARVADA

FedEx 8172 9130 5236

FIRST OVERNIGHT

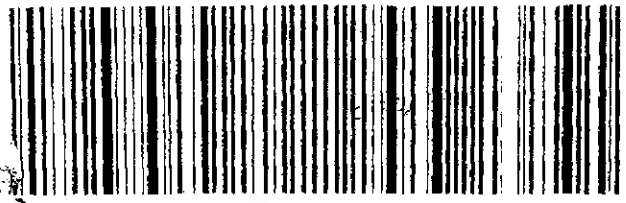
DSR

X1 LAAA

80002

CO-US

DEN



5395037 21Mar2024 EWNA 501G2/8538/C008

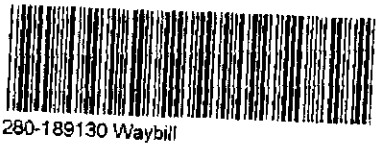
SIGNATURE

DATE 03-21-24

Custody Seal

eurofins | Environment Testing TestAmerica

2398063



280-189130 Waybill

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 280-189130-1

Login Number: 189130
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample date and/or time on COC, logged in per container labels.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per 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").	False	Narrative to indicate if headspace container used for analysis.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Sanita Corum
EA Engineering, Science, and Technology
225 Schilling Circle
Suite 400
Hunt Valley, Maryland 21031
Generated 5/6/2024 7:57:20 AM

JOB DESCRIPTION

ABC Cleaners, NC

JOB NUMBER

280-190470-1

Eurofins Denver

Job Notes

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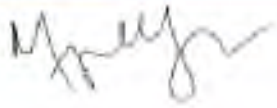

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190470-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
280-190470-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/23/2024 8:00 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 5.9°C.

GC/MS VOA
Method 8260D: Surrogate recovery for the following sample was outside the upper control limit: MPE01-04222024 (280-190470-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The continuing calibration verification (CCV) associated with batch 280-651788 recovered above the upper control limit for Hexane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MPE01-04222024 (280-190470-1), Trip Blank (280-190470-2) and (280-190428-E-4).

Method 8260D: The following sample was diluted due to the nature of the sample matrix: MPE01-04222024 (280-190470-1). Elevated reporting limits (RLs) are provided.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-651788 recovered outside control limits for the following analytes: Chloromethane, Vinyl chloride, Dichlorodifluoromethane and 1,2,3-Trichlorobenzene.

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

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190470-1

Client Sample ID: MPE01-04222024

Lab Sample ID: 280-190470-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	5500		50		ug/L	50		8260D	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 280-190470-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190470-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190470-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-190470-1	MPE01-04222024	Water	04/22/24 10:00	04/23/24 08:00
280-190470-2	Trip Blank	Water	04/22/24 10:05	04/23/24 08:00

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

Client Sample ID: MPE01-04222024
Date Collected: 04/22/24 10:00
Date Received: 04/23/24 08:00
Lab Sample ID: 280-190470-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	50	U	50		ug/L			05/02/24 15:37	50
Styrene	50	U	50		ug/L			05/02/24 15:37	50
cis-1,3-Dichloropropene	100	U	100		ug/L			05/02/24 15:37	50
trans-1,3-Dichloropropene	100	U	100		ug/L			05/02/24 15:37	50
N-Propylbenzene	50	U	50		ug/L			05/02/24 15:37	50
n-Butylbenzene	50	U	50		ug/L			05/02/24 15:37	50
4-Chlorotoluene	50	U	50		ug/L			05/02/24 15:37	50
1,4-Dichlorobenzene	50	U	50		ug/L			05/02/24 15:37	50
Ethylene Dibromide	50	U	50		ug/L			05/02/24 15:37	50
3-Chloro-1-propene	100	U	100		ug/L			05/02/24 15:37	50
1,2-Dichloroethane	50	U	50		ug/L			05/02/24 15:37	50
Acrylonitrile	1000	U	1000		ug/L			05/02/24 15:37	50
Vinyl acetate	150	U	150		ug/L			05/02/24 15:37	50
4-Methyl-2-pentanone (MIBK)	250	U	250		ug/L			05/02/24 15:37	50
1,3,5-Trimethylbenzene	50	U	50		ug/L			05/02/24 15:37	50
Bromobenzene	50	U	50		ug/L			05/02/24 15:37	50
Methylcyclohexane	50	U	50		ug/L			05/02/24 15:37	50
Toluene	50	U	50		ug/L			05/02/24 15:37	50
Chlorobenzene	50	U	50		ug/L			05/02/24 15:37	50
Tetrahydrofuran	350	U	350		ug/L			05/02/24 15:37	50
Hexane	100	U	100		ug/L			05/02/24 15:37	50
Cyclohexane	50	U	50		ug/L			05/02/24 15:37	50
1,2,4-Trichlorobenzene	50	U	50		ug/L			05/02/24 15:37	50
Chlorodibromomethane	100	U	100		ug/L			05/02/24 15:37	50
Tetrachloroethene	**5500**		50		ug/L			05/02/24 15:37	50
sec-Butylbenzene	50	U	50		ug/L			05/02/24 15:37	50
1,3-Dichloropropane	50	U	50		ug/L			05/02/24 15:37	50
cis-1,2-Dichloroethene	50	U	50		ug/L			05/02/24 15:37	50
trans-1,2-Dichloroethene	50	U	50		ug/L			05/02/24 15:37	50
Methyl tert-butyl ether	250	U	250		ug/L			05/02/24 15:37	50
m-Xylene & p-Xylene	100	U	100		ug/L			05/02/24 15:37	50
1,3-Dichlorobenzene	50	U	50		ug/L			05/02/24 15:37	50
Carbon tetrachloride	50	U	50		ug/L			05/02/24 15:37	50
1,1-Dichloropropene	50	U	50		ug/L			05/02/24 15:37	50
2-Hexanone	250	U	250		ug/L			05/02/24 15:37	50
2,2-Dichloropropane	50	U	50		ug/L			05/02/24 15:37	50
Ethyl ether	100	U	100		ug/L			05/02/24 15:37	50
1,1,1,2-Tetrachloroethane	50	U	50		ug/L			05/02/24 15:37	50
Acetone	750	U	750		ug/L			05/02/24 15:37	50
Chloroform	50	U	50		ug/L			05/02/24 15:37	50
Benzene	50	U	50		ug/L			05/02/24 15:37	50
1,1,1-Trichloroethane	50	U	50		ug/L			05/02/24 15:37	50
Bromomethane	250	U	250		ug/L			05/02/24 15:37	50
Chloromethane	100	U *1	100		ug/L			05/02/24 15:37	50
Iodomethane	250	U	250		ug/L			05/02/24 15:37	50
Dibromomethane	50	U	50		ug/L			05/02/24 15:37	50
Chlorobromomethane	50	U	50		ug/L			05/02/24 15:37	50
Chloroethane	200	U	200		ug/L			05/02/24 15:37	50
Vinyl chloride	100	U *1	100		ug/L			05/02/24 15:37	50

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

Client Sample ID: MPE01-04222024
Date Collected: 04/22/24 10:00
Date Received: 04/23/24 08:00
Lab Sample ID: 280-190470-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	100	U	100		ug/L			05/02/24 15:37	50
Carbon disulfide	100	U	100		ug/L			05/02/24 15:37	50
Bromoform	100	U	100		ug/L			05/02/24 15:37	50
Dichlorobromomethane	50	U	50		ug/L			05/02/24 15:37	50
1,1-Dichloroethane	50	U	50		ug/L			05/02/24 15:37	50
1,1-Dichloroethene	50	U	50		ug/L			05/02/24 15:37	50
Trichlorofluoromethane	100	U	100		ug/L			05/02/24 15:37	50
Dichlorodifluoromethane	150	U *1	150		ug/L			05/02/24 15:37	50
1,1,2-Trichloro-1,2,2-trifluoroethane	150	U	150		ug/L			05/02/24 15:37	50
1,2-Dichloropropane	50	U	50		ug/L			05/02/24 15:37	50
2-Butanone (MEK)	750	U	750		ug/L			05/02/24 15:37	50
1,1,2-Trichloroethane	50	U	50		ug/L			05/02/24 15:37	50
Trichloroethene	50	U	50		ug/L			05/02/24 15:37	50
Methyl acetate	250	U	250		ug/L			05/02/24 15:37	50
1,1,2,2-Tetrachloroethane	50	U	50		ug/L			05/02/24 15:37	50
1,2,3-Trichlorobenzene	100	U *1	100		ug/L			05/02/24 15:37	50
Hexachlorobutadiene	100	U	100		ug/L			05/02/24 15:37	50
Naphthalene	100	U	100		ug/L			05/02/24 15:37	50
o-Xylene	50	U	50		ug/L			05/02/24 15:37	50
2-Chlorotoluene	50	U	50		ug/L			05/02/24 15:37	50
1,2-Dichlorobenzene	50	U	50		ug/L			05/02/24 15:37	50
1,2,4-Trimethylbenzene	50	U	50		ug/L			05/02/24 15:37	50
1,2-Dibromo-3-Chloropropane	250	U	250		ug/L			05/02/24 15:37	50
1,2,3-Trichloropropane	130	U	130		ug/L			05/02/24 15:37	50
Ethyl methacrylate	150	U	150		ug/L			05/02/24 15:37	50
tert-Butylbenzene	50	U	50		ug/L			05/02/24 15:37	50
Isopropylbenzene	50	U	50		ug/L			05/02/24 15:37	50
4-Isopropyltoluene	50	U	50		ug/L			05/02/24 15:37	50
Xylenes, Total	50	U	50		ug/L			05/02/24 15:37	50
1,2-Dichloroethene, Total	50	U	50		ug/L			05/02/24 15:37	50
1,3-Dichloropropene, Total	100	U	100		ug/L			05/02/24 15:37	50
Trihalomethanes, Total	50	U	50		ug/L			05/02/24 15:37	50
Total BTEX	50	U	50		ug/L			05/02/24 15:37	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 127*		*05/02/24 15:37*	*50*
Dibromofluoromethane (Surr)	*125*	*S1+*	*77 - 120*		*05/02/24 15:37*	*50*
Toluene-d8 (Surr)	*99*		*80 - 125*		*05/02/24 15:37*	*50*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*		*05/02/24 15:37*	*50*

Client Sample ID: Trip Blank
Date Collected: 04/22/24 10:05
Date Received: 04/23/24 08:00
Lab Sample ID: 280-190470-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			05/02/24 11:29	1
Styrene	1.0	U	1.0		ug/L			05/02/24 11:29	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			05/02/24 11:29	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			05/02/24 11:29	1
N-Propylbenzene	1.0	U	1.0		ug/L			05/02/24 11:29	1
n-Butylbenzene	1.0	U	1.0		ug/L			05/02/24 11:29	1

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

Client Sample ID: Trip Blank
Lab Sample ID: 280-190470-2
Date Collected: 04/22/24 10:05
Matrix: Water
Date Received: 04/23/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	1.0	U	1.0		ug/L			05/02/24 11:29	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			05/02/24 11:29	1
Ethylene Dibromide	1.0	U	1.0		ug/L			05/02/24 11:29	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			05/02/24 11:29	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			05/02/24 11:29	1
Acrylonitrile	20	U	20		ug/L			05/02/24 11:29	1
Vinyl acetate	3.0	U	3.0		ug/L			05/02/24 11:29	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			05/02/24 11:29	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			05/02/24 11:29	1
Bromobenzene	1.0	U	1.0		ug/L			05/02/24 11:29	1
Methylcyclohexane	1.0	U	1.0		ug/L			05/02/24 11:29	1
Toluene	1.0	U	1.0		ug/L			05/02/24 11:29	1
Chlorobenzene	1.0	U	1.0		ug/L			05/02/24 11:29	1
Tetrahydrofuran	7.0	U	7.0		ug/L			05/02/24 11:29	1
Hexane	2.0	U	2.0		ug/L			05/02/24 11:29	1
Cyclohexane	1.0	U	1.0		ug/L			05/02/24 11:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			05/02/24 11:29	1
Chlorodibromomethane	2.0	U	2.0		ug/L			05/02/24 11:29	1
Tetrachloroethene	1.0	U	1.0		ug/L			05/02/24 11:29	1
sec-Butylbenzene	1.0	U	1.0		ug/L			05/02/24 11:29	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			05/02/24 11:29	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			05/02/24 11:29	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			05/02/24 11:29	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			05/02/24 11:29	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			05/02/24 11:29	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			05/02/24 11:29	1
Carbon tetrachloride	1.0	U	1.0		ug/L			05/02/24 11:29	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			05/02/24 11:29	1
2-Hexanone	5.0	U	5.0		ug/L			05/02/24 11:29	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			05/02/24 11:29	1
Ethyl ether	2.0	U	2.0		ug/L			05/02/24 11:29	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			05/02/24 11:29	1
Acetone	15	U	15		ug/L			05/02/24 11:29	1
Chloroform	1.0	U	1.0		ug/L			05/02/24 11:29	1
Benzene	1.0	U	1.0		ug/L			05/02/24 11:29	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			05/02/24 11:29	1
Bromomethane	5.0	U	5.0		ug/L			05/02/24 11:29	1
Chloromethane	2.0	U *1	2.0		ug/L			05/02/24 11:29	1
Iodomethane	5.0	U	5.0		ug/L			05/02/24 11:29	1
Dibromomethane	1.0	U	1.0		ug/L			05/02/24 11:29	1
Chlorobromomethane	1.0	U	1.0		ug/L			05/02/24 11:29	1
Chloroethane	4.0	U	4.0		ug/L			05/02/24 11:29	1
Vinyl chloride	2.0	U *1	2.0		ug/L			05/02/24 11:29	1
Methylene Chloride	2.0	U	2.0		ug/L			05/02/24 11:29	1
Carbon disulfide	2.0	U	2.0		ug/L			05/02/24 11:29	1
Bromoform	2.0	U	2.0		ug/L			05/02/24 11:29	1
Dichlorobromomethane	1.0	U	1.0		ug/L			05/02/24 11:29	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			05/02/24 11:29	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			05/02/24 11:29	1

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

Client Sample ID: Trip Blank
Lab Sample ID: 280-190470-2
Date Collected: 04/22/24 10:05
Matrix: Water
Date Received: 04/23/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	2.0	U	2.0		ug/L			05/02/24 11:29	1
Dichlorodifluoromethane	3.0	U *1	3.0		ug/L			05/02/24 11:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			05/02/24 11:29	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			05/02/24 11:29	1
2-Butanone (MEK)	15	U	15		ug/L			05/02/24 11:29	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			05/02/24 11:29	1
Trichloroethene	1.0	U	1.0		ug/L			05/02/24 11:29	1
Methyl acetate	5.0	U	5.0		ug/L			05/02/24 11:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			05/02/24 11:29	1
1,2,3-Trichlorobenzene	2.0	U *1	2.0		ug/L			05/02/24 11:29	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			05/02/24 11:29	1
Naphthalene	2.0	U	2.0		ug/L			05/02/24 11:29	1
o-Xylene	1.0	U	1.0		ug/L			05/02/24 11:29	1
2-Chlorotoluene	1.0	U	1.0		ug/L			05/02/24 11:29	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			05/02/24 11:29	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			05/02/24 11:29	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			05/02/24 11:29	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			05/02/24 11:29	1
Ethyl methacrylate	3.0	U	3.0		ug/L			05/02/24 11:29	1
tert-Butylbenzene	1.0	U	1.0		ug/L			05/02/24 11:29	1
Isopropylbenzene	1.0	U	1.0		ug/L			05/02/24 11:29	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			05/02/24 11:29	1
Xylenes, Total	1.0	U	1.0		ug/L			05/02/24 11:29	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			05/02/24 11:29	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			05/02/24 11:29	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			05/02/24 11:29	1
Total BTEX	1.0	U	1.0		ug/L			05/02/24 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*		*05/02/24 11:29*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*05/02/24 11:29*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*05/02/24 11:29*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*05/02/24 11:29*	*1*

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190470-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-127)	(77-120)	(80-125)	(78-120)
280-190470-1	MPE01-04222024	107	125 S1+	99	105
280-190470-2	Trip Blank	99	99	96	102
LCS 280-651788/4	Lab Control Sample	108	101	98	98
LCSD 280-651788/5	Lab Control Sample Dup	104	98	100	97
MB 280-651788/9	Method Blank	102	100	101	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-651788/9
Matrix: Water
Analysis Batch: 651788

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			05/02/24 10:47	1
Styrene	1.0	U	1.0		ug/L			05/02/24 10:47	1
cis-1,3-Dichloropropene	2.0	U	2.0		ug/L			05/02/24 10:47	1
trans-1,3-Dichloropropene	2.0	U	2.0		ug/L			05/02/24 10:47	1
N-Propylbenzene	1.0	U	1.0		ug/L			05/02/24 10:47	1
n-Butylbenzene	1.0	U	1.0		ug/L			05/02/24 10:47	1
4-Chlorotoluene	1.0	U	1.0		ug/L			05/02/24 10:47	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			05/02/24 10:47	1
Ethylene Dibromide	1.0	U	1.0		ug/L			05/02/24 10:47	1
3-Chloro-1-propene	2.0	U	2.0		ug/L			05/02/24 10:47	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			05/02/24 10:47	1
Acrylonitrile	20	U	20		ug/L			05/02/24 10:47	1
Vinyl acetate	3.0	U	3.0		ug/L			05/02/24 10:47	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0		ug/L			05/02/24 10:47	1
1,3,5-Trimethylbenzene	1.0	U	1.0		ug/L			05/02/24 10:47	1
Bromobenzene	1.0	U	1.0		ug/L			05/02/24 10:47	1
Methylcyclohexane	1.0	U	1.0		ug/L			05/02/24 10:47	1
Toluene	1.0	U	1.0		ug/L			05/02/24 10:47	1
Chlorobenzene	1.0	U	1.0		ug/L			05/02/24 10:47	1
Tetrahydrofuran	7.0	U	7.0		ug/L			05/02/24 10:47	1
Hexane	2.0	U	2.0		ug/L			05/02/24 10:47	1
Cyclohexane	1.0	U	1.0		ug/L			05/02/24 10:47	1
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			05/02/24 10:47	1
Chlorodibromomethane	2.0	U	2.0		ug/L			05/02/24 10:47	1
Tetrachloroethene	1.0	U	1.0		ug/L			05/02/24 10:47	1
sec-Butylbenzene	1.0	U	1.0		ug/L			05/02/24 10:47	1
1,3-Dichloropropane	1.0	U	1.0		ug/L			05/02/24 10:47	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			05/02/24 10:47	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			05/02/24 10:47	1
Methyl tert-butyl ether	5.0	U	5.0		ug/L			05/02/24 10:47	1
m-Xylene & p-Xylene	2.0	U	2.0		ug/L			05/02/24 10:47	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			05/02/24 10:47	1
Carbon tetrachloride	1.0	U	1.0		ug/L			05/02/24 10:47	1
1,1-Dichloropropene	1.0	U	1.0		ug/L			05/02/24 10:47	1
2-Hexanone	5.0	U	5.0		ug/L			05/02/24 10:47	1
2,2-Dichloropropane	1.0	U	1.0		ug/L			05/02/24 10:47	1
Ethyl ether	2.0	U	2.0		ug/L			05/02/24 10:47	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0		ug/L			05/02/24 10:47	1
Acetone	15	U	15		ug/L			05/02/24 10:47	1
Chloroform	1.0	U	1.0		ug/L			05/02/24 10:47	1
Benzene	1.0	U	1.0		ug/L			05/02/24 10:47	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			05/02/24 10:47	1
Bromomethane	5.0	U	5.0		ug/L			05/02/24 10:47	1
Chloromethane	2.0	U	2.0		ug/L			05/02/24 10:47	1
Iodomethane	5.0	U	5.0		ug/L			05/02/24 10:47	1
Dibromomethane	1.0	U	1.0		ug/L			05/02/24 10:47	1
Chlorobromomethane	1.0	U	1.0		ug/L			05/02/24 10:47	1
Chloroethane	4.0	U	4.0		ug/L			05/02/24 10:47	1

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

Lab Sample ID: MB 280-651788/9
Matrix: Water
Analysis Batch: 651788

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0		ug/L			05/02/24 10:47	1
Methylene Chloride	2.0	U	2.0		ug/L			05/02/24 10:47	1
Carbon disulfide	2.0	U	2.0		ug/L			05/02/24 10:47	1
Bromoform	2.0	U	2.0		ug/L			05/02/24 10:47	1
Dichlorobromomethane	1.0	U	1.0		ug/L			05/02/24 10:47	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			05/02/24 10:47	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			05/02/24 10:47	1
Trichlorofluoromethane	2.0	U	2.0		ug/L			05/02/24 10:47	1
Dichlorodifluoromethane	3.0	U	3.0		ug/L			05/02/24 10:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0		ug/L			05/02/24 10:47	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			05/02/24 10:47	1
2-Butanone (MEK)	15	U	15		ug/L			05/02/24 10:47	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			05/02/24 10:47	1
Trichloroethene	1.0	U	1.0		ug/L			05/02/24 10:47	1
Methyl acetate	5.0	U	5.0		ug/L			05/02/24 10:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			05/02/24 10:47	1
1,2,3-Trichlorobenzene	2.0	U	2.0		ug/L			05/02/24 10:47	1
Hexachlorobutadiene	2.0	U	2.0		ug/L			05/02/24 10:47	1
Naphthalene	2.0	U	2.0		ug/L			05/02/24 10:47	1
o-Xylene	1.0	U	1.0		ug/L			05/02/24 10:47	1
2-Chlorotoluene	1.0	U	1.0		ug/L			05/02/24 10:47	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			05/02/24 10:47	1
1,2,4-Trimethylbenzene	1.0	U	1.0		ug/L			05/02/24 10:47	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			05/02/24 10:47	1
1,2,3-Trichloropropane	2.5	U	2.5		ug/L			05/02/24 10:47	1
Ethyl methacrylate	3.0	U	3.0		ug/L			05/02/24 10:47	1
tert-Butylbenzene	1.0	U	1.0		ug/L			05/02/24 10:47	1
Isopropylbenzene	1.0	U	1.0		ug/L			05/02/24 10:47	1
4-Isopropyltoluene	1.0	U	1.0		ug/L			05/02/24 10:47	1
Xylenes, Total	1.0	U	1.0		ug/L			05/02/24 10:47	1
1,2-Dichloroethene, Total	1.0	U	1.0		ug/L			05/02/24 10:47	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			05/02/24 10:47	1
Trihalomethanes, Total	1.0	U	1.0		ug/L			05/02/24 10:47	1
Total BTEX	1.0	U	1.0		ug/L			05/02/24 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*		*05/02/24 10:47*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*05/02/24 10:47*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*05/02/24 10:47*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*05/02/24 10:47*	*1*

Lab Sample ID: LCS 280-651788/4
Matrix: Water
Analysis Batch: 651788

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	56.4		ug/L		113	76 - 121
Styrene	50.0	56.4		ug/L		113	79 - 120

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

Lab Sample ID: LCS 280-651788/4
Matrix: Water
Analysis Batch: 651788

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	50.0	55.0		ug/L		110	75 - 120
trans-1,3-Dichloropropene	50.0	55.3		ug/L		111	66 - 127
N-Propylbenzene	50.0	55.0		ug/L		110	73 - 127
n-Butylbenzene	50.0	55.3		ug/L		111	69 - 130
4-Chlorotoluene	50.0	53.9		ug/L		108	74 - 124
1,4-Dichlorobenzene	50.0	48.6		ug/L		97	76 - 119
Ethylene Dibromide	50.0	53.8		ug/L		108	81 - 118
3-Chloro-1-propene	50.0	55.0		ug/L		110	57 - 136
1,2-Dichloroethane	50.0	49.2		ug/L		98	61 - 130
Acrylonitrile	500	545		ug/L		109	65 - 133
Vinyl acetate	100	115		ug/L		115	61 - 139
4-Methyl-2-pentanone (MIBK)	200	219		ug/L		109	56 - 135
1,3,5-Trimethylbenzene	50.0	53.6		ug/L		107	73 - 127
Bromobenzene	50.0	52.2		ug/L		104	75 - 122
Methylcyclohexane	50.0	55.4		ug/L		111	58 - 136
Toluene	50.0	53.4		ug/L		107	68 - 127
Chlorobenzene	50.0	53.4		ug/L		107	78 - 118
Tetrahydrofuran	100	101		ug/L		101	50 - 139
Hexane	50.0	56.0		ug/L		112	52 - 139
Cyclohexane	50.0	54.5		ug/L		109	57 - 134
1,2,4-Trichlorobenzene	50.0	56.0		ug/L		112	73 - 124
Chlorodibromomethane	50.0	53.7		ug/L		107	71 - 122
Tetrachloroethene	50.0	56.2		ug/L		112	72 - 127
sec-Butylbenzene	50.0	55.4		ug/L		111	72 - 127
1,3-Dichloropropane	50.0	52.6		ug/L		105	80 - 118
cis-1,2-Dichloroethene	50.0	57.6		ug/L		115	69 - 126
trans-1,2-Dichloroethene	50.0	57.9		ug/L		116	66 - 129
Methyl tert-butyl ether	50.0	52.0		ug/L		104	70 - 127
m-Xylene & p-Xylene	50.0	56.1		ug/L		112	76 - 122
1,3-Dichlorobenzene	50.0	50.6		ug/L		101	76 - 121
Carbon tetrachloride	50.0	59.8		ug/L		120	60 - 133
1,1-Dichloropropene	50.0	58.6		ug/L		117	64 - 133
2-Hexanone	200	211		ug/L		105	58 - 134
2,2-Dichloropropane	50.0	58.4		ug/L		117	57 - 140
Ethyl ether	50.0	45.6		ug/L		91	66 - 129
1,1,1,2-Tetrachloroethane	50.0	55.6		ug/L		111	74 - 121
Acetone	200	171		ug/L		86	50 - 137
Chloroform	50.0	54.1		ug/L		108	68 - 128
Benzene	50.0	55.1		ug/L		110	69 - 126
1,1,1-Trichloroethane	50.0	57.9		ug/L		116	62 - 132
Bromomethane	50.0	52.0		ug/L		104	25 - 163
Chloromethane	50.0	57.0		ug/L		114	43 - 142
Iodomethane	50.0	48.3		ug/L		97	37 - 145
Dibromomethane	50.0	55.8		ug/L		112	68 - 129
Chlorobromomethane	50.0	59.6		ug/L		119	71 - 130
Chloroethane	50.0	56.7		ug/L		113	52 - 144
Vinyl chloride	50.0	57.8		ug/L		116	53 - 141
Methylene Chloride	50.0	57.3		ug/L		115	64 - 128
Carbon disulfide	50.0	54.5		ug/L		109	56 - 128

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

Lab Sample ID: LCS 280-651788/4
Matrix: Water
Analysis Batch: 651788

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	50.0	53.9		ug/L		108	57 - 125
Dichlorobromomethane	50.0	55.4		ug/L		111	67 - 126
1,1-Dichloroethane	50.0	55.0		ug/L		110	66 - 130
1,1-Dichloroethene	50.0	53.8		ug/L		108	62 - 130
Trichlorofluoromethane	50.0	59.4		ug/L		119	57 - 144
Dichlorodifluoromethane	50.0	52.7		ug/L		105	26 - 152
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.9		ug/L		108	60 - 137
1,2-Dichloropropane	50.0	54.7		ug/L		109	68 - 127
2-Butanone (MEK)	200	198		ug/L		99	53 - 135
1,1,2-Trichloroethane	50.0	56.2		ug/L		112	72 - 128
Trichloroethene	50.0	51.7		ug/L		103	70 - 125
Methyl acetate	100	101		ug/L		101	59 - 133
1,1,2,2-Tetrachloroethane	50.0	49.5		ug/L		99	72 - 122
1,2,3-Trichlorobenzene	50.0	51.7		ug/L		103	70 - 127
Hexachlorobutadiene	50.0	56.4		ug/L		113	69 - 133
Naphthalene	50.0	43.9		ug/L		88	63 - 129
o-Xylene	50.0	57.5		ug/L		115	77 - 120
2-Chlorotoluene	50.0	53.4		ug/L		107	75 - 123
1,2-Dichlorobenzene	50.0	51.6		ug/L		103	77 - 121
1,2,4-Trimethylbenzene	50.0	54.2		ug/L		108	74 - 124
1,2-Dibromo-3-Chloropropane	50.0	51.7		ug/L		103	58 - 122
1,2,3-Trichloropropane	50.0	50.8		ug/L		102	74 - 123
Ethyl methacrylate	50.0	52.8		ug/L		106	69 - 126
tert-Butylbenzene	50.0	52.6		ug/L		105	72 - 126
Isopropylbenzene	50.0	52.2		ug/L		104	70 - 127
4-Isopropyltoluene	50.0	53.0		ug/L		106	74 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 127*
Dibromofluoromethane (Surr)	*101*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*

Lab Sample ID: LCSD 280-651788/5
Matrix: Water
Analysis Batch: 651788

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
Ethylbenzene	50.0	54.8		ug/L		110	76 - 121	3	20
Styrene	50.0	53.0		ug/L		106	79 - 120	6	20
cis-1,3-Dichloropropene	50.0	55.1		ug/L		110	75 - 120	0	20
trans-1,3-Dichloropropene	50.0	49.5		ug/L		99	66 - 127	11	20
N-Propylbenzene	50.0	54.2		ug/L		108	73 - 127	1	20
n-Butylbenzene	50.0	52.5		ug/L		105	69 - 130	5	20
4-Chlorotoluene	50.0	54.1		ug/L		108	74 - 124	0	20
1,4-Dichlorobenzene	50.0	46.3		ug/L		93	76 - 119	5	20
Ethylene Dibromide	50.0	53.0		ug/L		106	81 - 118	2	20
3-Chloro-1-propene	50.0	53.7		ug/L		107	57 - 136	2	20

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

Lab Sample ID: LCSD 280-651788/5
Matrix: Water
Analysis Batch: 651788

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-Dichloroethane	50.0	48.3		ug/L		97	61 - 130	2	20
Acrylonitrile	500	561		ug/L		112	65 - 133	3	20
Vinyl acetate	100	98.5		ug/L		99	61 - 139	16	23
4-Methyl-2-pentanone (MIBK)	200	222		ug/L		111	56 - 135	2	20
1,3,5-Trimethylbenzene	50.0	51.2		ug/L		102	73 - 127	5	20
Bromobenzene	50.0	51.3		ug/L		103	75 - 122	2	20
Methylcyclohexane	50.0	53.0		ug/L		106	58 - 136	4	21
Toluene	50.0	50.4		ug/L		101	68 - 127	6	20
Chlorobenzene	50.0	52.2		ug/L		104	78 - 118	2	20
Tetrahydrofuran	100	109		ug/L		109	50 - 139	8	20
Hexane	50.0	53.8		ug/L		108	52 - 139	4	23
Cyclohexane	50.0	53.4		ug/L		107	57 - 134	2	32
1,2,4-Trichlorobenzene	50.0	53.2		ug/L		106	73 - 124	5	20
Chlorodibromomethane	50.0	52.4		ug/L		105	71 - 122	2	20
Tetrachloroethene	50.0	52.9		ug/L		106	72 - 127	6	20
sec-Butylbenzene	50.0	53.6		ug/L		107	72 - 127	3	20
1,3-Dichloropropane	50.0	53.9		ug/L		108	80 - 118	3	20
cis-1,2-Dichloroethene	50.0	56.2		ug/L		112	69 - 126	2	20
trans-1,2-Dichloroethene	50.0	54.8		ug/L		110	66 - 129	5	20
Methyl tert-butyl ether	50.0	50.8		ug/L		102	70 - 127	2	20
m-Xylene & p-Xylene	50.0	54.0		ug/L		108	76 - 122	4	20
1,3-Dichlorobenzene	50.0	49.6		ug/L		99	76 - 121	2	20
Carbon tetrachloride	50.0	53.9		ug/L		108	60 - 133	10	20
1,1-Dichloropropene	50.0	56.0		ug/L		112	64 - 133	5	20
2-Hexanone	200	229		ug/L		114	58 - 134	8	21
2,2-Dichloropropane	50.0	49.4		ug/L		99	57 - 140	17	22
Ethyl ether	50.0	44.4		ug/L		89	66 - 129	3	20
1,1,1,2-Tetrachloroethane	50.0	54.4		ug/L		109	74 - 121	2	20
Acetone	200	173		ug/L		87	50 - 137	1	21
Chloroform	50.0	51.3		ug/L		103	68 - 128	5	20
Benzene	50.0	54.0		ug/L		108	69 - 126	2	20
1,1,1-Trichloroethane	50.0	52.6		ug/L		105	62 - 132	10	20
Bromomethane	50.0	42.8		ug/L		86	25 - 163	19	40
Chloromethane	50.0	41.0	*1	ug/L		82	43 - 142	33	20
Iodomethane	50.0	50.8		ug/L		102	37 - 145	5	38
Dibromomethane	50.0	53.3		ug/L		107	68 - 129	5	20
Chlorobromomethane	50.0	53.8		ug/L		108	71 - 130	10	20
Chloroethane	50.0	43.2		ug/L		86	52 - 144	27	30
Vinyl chloride	50.0	43.4	*1	ug/L		87	53 - 141	28	25
Methylene Chloride	50.0	52.2		ug/L		104	64 - 128	9	20
Carbon disulfide	50.0	48.3		ug/L		97	56 - 128	12	20
Bromoform	50.0	50.4		ug/L		101	57 - 125	7	20
Dichlorobromomethane	50.0	51.4		ug/L		103	67 - 126	7	20
1,1-Dichloroethane	50.0	54.5		ug/L		109	66 - 130	1	20
1,1-Dichloroethene	50.0	49.4		ug/L		99	62 - 130	8	21
Trichlorofluoromethane	50.0	46.5		ug/L		93	57 - 144	24	28
Dichlorodifluoromethane	50.0	36.2	*1	ug/L		72	26 - 152	37	21
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.6		ug/L		97	60 - 137	10	23

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

Lab Sample ID: LCSD 280-651788/5
Matrix: Water
Analysis Batch: 651788

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	55.3		ug/L		111	68 - 127	1	20
2-Butanone (MEK)	200	208		ug/L		104	53 - 135	5	20
1,1,2-Trichloroethane	50.0	53.9		ug/L		108	72 - 128	4	20
Trichloroethene	50.0	53.7		ug/L		107	70 - 125	4	20
Methyl acetate	100	106		ug/L		106	59 - 133	5	20
1,1,2,2-Tetrachloroethane	50.0	50.2		ug/L		100	72 - 122	1	20
1,2,3-Trichlorobenzene	50.0	41.3	*1	ug/L		83	70 - 127	22	20
Hexachlorobutadiene	50.0	48.8		ug/L		98	69 - 133	14	20
Naphthalene	50.0	42.7		ug/L		85	63 - 129	3	21
o-Xylene	50.0	53.9		ug/L		108	77 - 120	6	20
2-Chlorotoluene	50.0	51.9		ug/L		104	75 - 123	3	20
1,2-Dichlorobenzene	50.0	49.7		ug/L		99	77 - 121	4	20
1,2,4-Trimethylbenzene	50.0	51.3		ug/L		103	74 - 124	6	20
1,2-Dibromo-3-Chloropropane	50.0	50.2		ug/L		100	58 - 122	3	21
1,2,3-Trichloropropane	50.0	50.5		ug/L		101	74 - 123	0	20
Ethyl methacrylate	50.0	54.7		ug/L		109	69 - 126	4	20
tert-Butylbenzene	50.0	51.0		ug/L		102	72 - 126	3	20
Isopropylbenzene	50.0	51.5		ug/L		103	70 - 127	1	20
4-Isopropyltoluene	50.0	50.2		ug/L		100	74 - 127	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*
Dibromofluoromethane (Surr)	*98*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190470-1

GC/MS VOA

Analysis Batch: 651788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190470-1	MPE01-04222024	Total/NA	Water	8260D	
280-190470-2	Trip Blank	Total/NA	Water	8260D	
MB 280-651788/9	Method Blank	Total/NA	Water	8260D	
LCS 280-651788/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-651788/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: ABC Cleaners, NC

Job ID: 280-190470-1

Client Sample ID: MPE01-04222024

Lab Sample ID: 280-190470-1

Date Collected: 04/22/24 10:00
Matrix: Water
Date Received: 04/23/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	651788	05/02/24 15:37	DMC	EET DEN

Client Sample ID: Trip Blank

Lab Sample ID: 280-190470-2

Date Collected: 04/22/24 10:05
Matrix: Water
Date Received: 04/23/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	651788	05/02/24 11:29	DMC	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Job ID: 280-190470-1
Project/Site: ABC Cleaners, NC

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed Not all accreditations/certifications are applicable to this report

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24 *
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-07	07-31-24
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver
1055 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins

Client Information	Sampler: Rene Ramos	Lab PM: Norton, Michael R	Carrier Tracking No(s):	COC No:
Client Contact: Sanita Corum	Phone:	E-Mail: Michael.Norton@et.eurofinsus.com	State of Origin: NC	Page: Page 1 of 1
Company: EA Engineering, Science, and Technology, Inc., PBC	PWSID:			Job #: 6347505.030000
Address: 225 Schilling Circle Suite 400	Due Date Requested:			
City: Hunt Valley	TAT Requested (days): 5			
State, Zip: MD, 21031	Compliance Project: Δ Yes Δ No			
Phone: 410-329-5155 (Tel)	PO #: 24987			
Email: northeastap@eaest.com	WO #:			
Project Name: ABC Cleaners, NC	Project #: 28024283			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D, VOCs, Standard List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N N N N N N N CB B N		
MPE01-04222024	4/22/24	10:10	G	W			X	3	5-Day TAT
Trip Blank	4/22/24	10:05	G	W			X	2	5-Day TAT

280-190470 Chain of Custody

Possible Hazard Identification
x Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client x Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Rene Ramos	04-22-24 / 10:05	TTE		4/23/24 0800	EETMEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody seal #: 239681?

Cooler Temperature(s) °C and Other Remarks: 5.8°C dol IR14

Ver. 01/16/2019

eurofins | Environment Testing TestAmerica

2396817

FedEx

TRK# 0200 8172 9130 3060

TUE - 23 APR 8:30A
FIRST OVERNIGHT
DSR

X1 LAAA

80002
CO-US
DEN

816238 22Apr2024 FWNA 581G6/0EEC/C088

280-190470 Waybill

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 280-190470-1

Login Number: 190470
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix F

Laboratory Data Validation Reports

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ENVIRONMENTAL
Data Services, Inc.

DATA VALIDATION SUMMARY REPORT
ABC CLEANERS, NORTH CAROLINA

Client: EA Engineering, Science & Technology, Inc., Hunt Valley, Maryland
SDG: 280-189645-1
Laboratory: Eurofins, Denver, Colorado
Site: ABC Cleaners, North Carolina
Date: June 18, 2024

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1*	POST-SO-SB6-05-04022024	280-189645-1	Soil
2	POST-SO-SB6-10-04022024	280-189645-2	Soil
3	POST-SO-SB6-15-04022024	280-189645-3	Soil
4	POST-SO-SB6-20-04022024	280-189645-4	Soil
5	POST-SO-SB4-05-04032024	280-189645-5	Soil
6	POST-SO-SB4-10-04032024	280-189645-6	Soil
7	POST-SO-SB4-15-04032024	280-189645-7	Soil
8	POST-SO-SB4-20-04032024	280-189645-8	Soil
9	POST-SO-SB4-25-04032024	280-189645-9	Soil
10*	POST-SO-SB4-30-04032024	280-189645-10	Soil
10MS	POST-SO-SB4-30-04032024MS	280-189645-10MS	Soil
10MSD	POST-SO-SB4-30-04032024MSD	280-189645-10MSD	Soil
11	POST-SO-SB4-35-04032024	280-189645-11	Soil
12	POST-SO-SB4-40-04032024	280-189645-12	Soil
13	POST-SO-SB4-45-04032024	280-189645-13	Soil
14	POST-SO-SB4-50-04032024	280-189645-14	Soil
15	DUP-SO-1-04032024	280-189645-15	Soil
16	Trip Blank	280-189645-16	Water

*Stage 4 review

A Stage 2B/4 data validation was performed on the analytical data for fifteen soil samples and one aqueous trip blank sample collected on April 2-3, 2024 by EA Engineering at the ABC Cleaners site in North Carolina. The samples were analyzed under the Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions.

Specific method references are as follows:

Analysis	*Method References*
VOCs	SW846 Method 8260D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, the Sampling and Analysis Plan and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," November 2020;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Holding times and sample preservation
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no serious deficiencies of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Volatile Organic Compounds (VOC)

Holding Times

- All samples were analyzed within 14 days for preserved water samples and 7 days for unpreserved water samples except for the following.

Sample ID	Date Collected	Date Analyzed	# Days	Qualifier
1	4/2/24	4/14/24	12 Days	J/UJ
2	4/2/24	4/14/24	12 Days	J/UJ
3	4/2/24	4/14/24	12 Days	J/UJ
4	4/2/24	4/14/24	12 Days	UJ
15	4/3/24	4/14/24	11 Days	J/UJ

GC/MS Tuning

- All criteria were met.

Initial Calibration

- All percent relative standard deviation (%RSD) and/or correlation coefficients and mean relative response factor (RRF) criteria were met.

Continuing Calibration

- All %D and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Trip Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values except for the following.

MS/MSD Sample	Compound	MS %R/MSD %R/RPD	Qualifier
10	Tetrachloroethene	75%/OK/OK	UJ
	Bromomethane	46%/OK/25%	UJ
	Chloroethane	48%/OK/OK	UJ
	Bromoform	76%/OK/OK	UJ
	Trichlorofluoromethane	38%/OK/43%	UJ
	Dichlorodifluoromethane	27%/OK/36%	UJ
	1ICBD	44%/OK/OK	UJ

Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)

- The LCS/LCSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	POST-SO-SB4-15-04032024 ug/kg	DUP-SO-1-04032024 ug/kg	RPD	Qualifier
Acetone	110	110	0%	None

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 6/22/24

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Reason Code	Definition
HT	Holding Time
MB	Method Blank
SURR	Surrogate
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
CB/CCB	Calibration Blank or Continuing Calibration Blank
CCV	Calibration Verification
SD	ICP Serial Dilution
TB	Trip Blank
EB	Equipment Blank
FB	Field Blank
FD	Field Duplicate
CQ	Compound Quantitation
IS	Internal Standard

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB6-05-04022024 | Lab Sample ID: 280-189645-1

Matrix: Solid | Lab File ID: MS12_044228.D

Analysis Method: 8260D | Date Collected: 04/02/2024 17:30

Sample wt/vol: 6.038(g) | Date Analyzed: 04/14/2024 16:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 13.0 % Solids: 87.0 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	4.8	U	4.8
100-42-5	Styrene	4.8	U	4.8
10061-01-5	cis-1,3-Dichloropropene	4.8	U	4.8
10061-02-6	trans-1,3-Dichloropropene	4.8	U	4.8
103-65-1	N-Propylbenzene	4.8	U	4.8
104-51-8	n-Butylbenzene	4.8	U	4.8
106-43-4	4-Chlorotoluene	4.8	U	4.8
106-46-7	1,4-Dichlorobenzene	4.8	U	4.8
106-93-4	Ethylene Dibromide	4.8	U	4.8
107-05-1	3-Chloro-1-propene	9.5	U	9.5
107-06-2	1,2-Dichloroethane	4.8	U	4.8
108-05-4	Vinyl acetate	9.5	U	9.5
108-10-1	4-Methyl-2-pentanone (MIBK)	19	U	19
108-67-8	1,3,5-Trimethylbenzene	4.8	U	4.8
108-86-1	Bromobenzene	4.8	U	4.8
108-87-2	Methylcyclohexane	4.8	U	4.8
108-88-3	Toluene	4.8	U	4.8
108-90-7	Chlorobenzene	4.8	U	4.8
109-99-9	Tetrahydrofuran	19	U	19
110-54-3	Hexane	4.8	U	4.8
110-82-7	Cyclohexane	4.8	U	4.8
120-82-1	1,2,4-Trichlorobenzene	4.8	U	4.8
124-48-1	Chlorodibromomethane	4.8	U	4.8
127-18-4	Tetrachloroethene	33		4.8
135-98-8	sec-Butylbenzene	4.8	U	4.8
142-28-9	1,3-Dichloropropane	4.8	U	4.8
156-59-2	cis-1,2-Dichloroethene	1.8	J	2.4
156-60-5	trans-1,2-Dichloroethene	2.4	U	2.4
1634-04-4	Methyl tert-butyl ether	19	U	19
179601-23-1	m-Xylene & p-Xylene	2.4	U	2.4
541-73-1	1,3-Dichlorobenzene	4.8	U	4.8
56-23-5	Carbon tetrachloride	4.8	U	4.8
563-58-6	1,1-Dichloropropene	4.8	U	4.8
591-78-6	2-Hexanone	19	U	19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB6-05-04022024 Lab Sample ID: 280-189645-1

Matrix: Solid Lab File ID: MS12_044228.D

Analysis Method: 8260D Date Collected: 04/02/2024 17:30

Sample wt/vol: 6.038(g) Date Analyzed: 04/14/2024 16:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 13.0 % Solids: 87.0 Level: (low/med) Low

Analysis Batch No.: 649463 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	4.8	U	4.8
60-29-7	Ethyl ether	9.5	U	9.5
630-20-6	1,1,1,2-Tetrachloroethane	4.8	U	4.8
67-64-1	Acetone	730		76
67-66-3	Chloroform	9.5	U	9.5
71-43-2	Benzene	4.8	U	4.8
71-55-6	1,1,1-Trichloroethane	4.8	U	4.8
74-83-9	Bromomethane	9.5	U	9.5
74-87-3	Chloromethane	9.5	U	9.5
74-88-4	Iodomethane	4.8	U	4.8
74-95-3	Dibromomethane	4.8	U	4.8
74-97-5	Chlorobromomethane	4.8	U	4.8
75-00-3	Chloroethane	9.5	U	9.5
75-01-4	Vinyl chloride	4.8	U	4.8
75-09-2	Methylene Chloride	4.8	U	4.8
75-15-0	Carbon disulfide	4.8	U	4.8
75-25-2	Bromoform	4.8	U	4.8
75-27-4	Dichlorobromomethane	4.8	U	4.8
75-34-3	1,1-Dichloroethane	4.8	U	4.8
75-35-4	1,1-Dichloroethene	4.8	U	4.8
75-69-4	Trichlorofluoromethane	9.5	U	9.5
75-71-8	Dichlorodifluoromethane	9.5	U	9.5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19	U	19
78-87-5	1,2-Dichloropropane	4.8	U	4.8
78-93-3	2-Butanone (MEK)	93		19
79-00-5	1,1,2-Trichloroethane	4.8	U	4.8
79-01-6	Trichloroethene	15		4.8
79-20-9	Methyl acetate	9.5	U	9.5
79-34-5	1,1,2,2-Tetrachloroethane	4.8	U	4.8
87-61-6	1,2,3-Trichlorobenzene	4.8	U	4.8
87-68-3	Hexachlorobutadiene	4.8	U	4.8
91-20-3	Naphthalene	6.3	U	6.3
95-47-6	o-Xylene	2.4	U	2.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB6-05-04022024 | Lab Sample ID: 280-189645-1

Matrix: Solid | Lab File ID: MS12_044228.D

Analysis Method: 8260D | Date Collected: 04/02/2024 17:30

Sample wt/vol: 6.038(g) | Date Analyzed: 04/14/2024 16:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 13.0 % Solids: 87.0 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	4.8	U H	4.8
95-50-1	1,2-Dichlorobenzene	4.8	U H	4.8
95-63-6	1,2,4-Trimethylbenzene	4.8	U H	4.8
96-12-8	1,2-Dibromo-3-Chloropropane	9.5	U H	9.5
96-18-4	1,2,3-Trichloropropane	4.8	U H	4.8
97-63-2	Ethyl methacrylate	4.8	U H	4.8
98-06-6	tert-Butylbenzene	4.8	U H	4.8
98-82-8	Isopropylbenzene	4.8	U H	4.8
99-87-6	4-Isopropyltoluene	4.8	U H	4.8
1330-20-7	Xylenes, Total	4.8	U H	4.8
540-59-0	1,2-Dichloroethene, Total	7.8	J	4.8
542-75-6	1,3-Dichloropropene, Total	4.8	U H	4.8
STL00209	Trihalomethanes, Total	9.5	U H	9.5
STL00431	Total BTEX	4.8	U H	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		58-140
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
2037-26-5	Toluene-d8 (Surr)	100		80-126
460-00-4	4-Bromofluorobenzene (Surr)	107		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189645-1
SDG No.:
Client Sample ID: POST-SO-SB6-10-04022024 Lab Sample ID: 280-189645-2
Matrix: Solid Lab File ID: MS12_044229.D
Analysis Method: 8260D Date Collected: 04/02/2024 17:50
Sample wt/vol: 5.567(g) Date Analyzed: 04/14/2024 16:56
Soil Aliquot Vol: Dilution Factor: 1
Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:
% Moisture: 17.5 % Solids: 82.5 Level: (low/med) Low
Analysis Batch No.: 649463 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.4	U	5.4
100-42-5	Styrene	5.4	U	5.4
10061-01-5	cis-1,3-Dichloropropene	5.4	U	5.4
10061-02-6	trans-1,3-Dichloropropene	5.4	U	5.4
103-65-1	N-Propylbenzene	5.4	U	5.4
104-51-8	n-Butylbenzene	5.4	U	5.4
106-43-4	4-Chlorotoluene	5.4	U	5.4
106-46-7	1,4-Dichlorobenzene	5.4	U	5.4
106-93-4	Ethylene Dibromide	5.4	U	5.4
107-05-1	3-Chloro-1-propene	11	U	11
107-06-2	1,2-Dichloroethane	5.4	U	5.4
108-05-4	Vinyl acetate	11	U	11
108-10-1	4-Methyl-2-pentanone (MIBK)	22	U	22
108-67-8	1,3,5-Trimethylbenzene	5.4	U	5.4
108-86-1	Bromobenzene	5.4	U	5.4
108-87-2	Methylcyclohexane	5.4	U	5.4
108-88-3	Toluene	5.4	U	5.4
108-90-7	Chlorobenzene	5.4	U	5.4
109-99-9	Tetrahydrofuran	22	U	22
110-54-3	Hexane	5.4	U	5.4
110-82-7	Cyclohexane	5.4	U	5.4
120-82-1	1,2,4-Trichlorobenzene	5.4	U	5.4
124-48-1	Chlorodibromomethane	5.4	U	5.4
127-18-4	Tetrachloroethene	5.4	U	5.4
135-98-8	sec-Butylbenzene	5.4	U	5.4
142-28-9	1,3-Dichloropropane	5.4	U	5.4
156-59-2	cis-1,2-Dichloroethene	2.7	U	2.7
156-60-5	trans-1,2-Dichloroethene	2.7	U	2.7
1634-04-4	Methyl tert-butyl ether	22	U	22
179601-23-1	m-Xylene & p-Xylene	2.7	U	2.7
541-73-1	1,3-Dichlorobenzene	5.4	U	5.4
56-23-5	Carbon tetrachloride	5.4	U	5.4
563-58-6	1,1-Dichloropropene	5.4	U	5.4
591-78-6	2-Hexanone	22	U	22

MAT

2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB6-10-04022024 Lab Sample ID: 280-189645-2

Matrix: Solid Lab File ID: MS12_044229.D

Analysis Method: 8260D Date Collected: 04/02/2024 17:50

Sample wt/vol: 5.567(g) Date Analyzed: 04/14/2024 16:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 17.5 % Solids: 82.5 Level: (low/med) Low

Analysis Batch No.: 649463 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.4	U	5.4
60-29-7	Ethyl ether	11	U	11
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U	5.4
67-64-1	Acetone	120	J	97
67-66-3	Chloroform	11	U	11
71-43-2	Benzene	5.4	U	5.4
71-55-6	1,1,1-Trichloroethane	5.4	U	5.4
74-83-9	Bromomethane	11	U	11
74-87-3	Chloromethane	11	U	11
74-88-4	Iodomethane	5.4	U	5.4
74-95-3	Dibromomethane	5.4	U	5.4
74-97-5	Chlorobromomethane	5.4	U	5.4
75-00-3	Chloroethane	11	U	11
75-01-4	Vinyl chloride	5.4	U	5.4
75-09-2	Methylene Chloride	5.4	U	5.4
75-15-0	Carbon disulfide	5.4	U	5.4
75-25-2	Bromoform	5.4	U	5.4
75-27-4	Dichlorobromomethane	5.4	U	5.4
75-34-3	1,1-Dichloroethane	5.4	U	5.4
75-35-4	1,1-Dichloroethene	5.4	U	5.4
75-69-4	Trichlorofluoromethane	11	U	11
75-71-8	Dichlorodifluoromethane	11	U	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22
78-87-5	1,2-Dichloropropane	5.4	U	5.4
78-93-3	2-Butanone (MEK)	22	U	22
79-00-5	1,1,2-Trichloroethane	5.4	U	5.4
79-01-6	Trichloroethene	5.4	U	5.4
79-20-9	Methyl acetate	11	U	11
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U	5.4
87-61-6	1,2,3-Trichlorobenzene	5.4	U	5.4
87-68-3	Hexachlorobutadiene	5.4	U	5.4
91-20-3	Naphthalene	7.2	U	7.2
95-47-6	o-Xylene	2.7	U	2.7

HH

HH 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1
SDG No.:
Client Sample ID: POST-SO-SB6-10-04022024 | Lab Sample ID: 280-189645-2
Matrix: Solid | Lab File ID: MS12_044229.D
Analysis Method: 8260D | Date Collected: 04/02/2024 17:50
Sample wt/vol: 5.567(g) | Date Analyzed: 04/14/2024 16:56
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 17.5 % Solids: 82.5 | Level: (low/med) Low
Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.4	U	5.4
95-50-1	1,2-Dichlorobenzene	5.4	U	5.4
95-63-6	1,2,4-Trimethylbenzene	5.4	U	5.4
96-12-8	1,2-Dibromo-3-Chloropropane	11	U	11
96-18-4	1,2,3-Trichloropropane	5.4	U	5.4
97-63-2	Ethyl methacrylate	5.4	U	5.4
98-06-6	tert-Butylbenzene	5.4	U	5.4
98-82-8	Isopropylbenzene	5.4	U	5.4
99-87-6	4-Isopropyltoluene	5.4	U	5.4
1330-20-7	Xylenes, Total	5.4	U	5.4
540-59-0	1,2-Dichloroethene, Total	5.4	U	5.4
542-75-6	1,3-Dichloropropene, Total	5.4	U	5.4
STL00209	Trihalomethanes, Total	11	U	11
STL00431	Total BTEX	5.4	U	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		58-140
1868-53-7	Dibromofluoromethane (Surr)	98		75-121
2037-26-5	Toluene-d8 (Surr)	97		90-126
460-00-4	4-Bromofluorobenzene (Surr)	106		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1
SDG No.:
Client Sample ID: POST-SO-SB6-15-04022024 | Lab Sample ID: 280-189645-3
Matrix: Solid | Lab File ID: MS12_044230.D
Analysis Method: 8260D | Date Collected: 04/02/2024 18:00
Sample wt/vol: 6.041(g) | Date Analyzed: 04/14/2024 17:16
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 15.6 % Solids: 84.4 | Level: (low/med) Low
Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	4.9	U	4.9
100-42-5	Styrene	4.9	U	4.9
10061-01-5	cis-1,3-Dichloropropene	4.9	U	4.9
10061-02-6	trans-1,3-Dichloropropene	4.9	U	4.9
103-65-1	N-Propylbenzene	4.9	U	4.9
104-51-8	n-Butylbenzene	4.9	U	4.9
106-43-4	4-Chlorotoluene	4.9	U	4.9
106-46-7	1,4-Dichlorobenzene	4.9	U	4.9
106-93-4	Ethylene Dibromide	4.9	U	4.9
107-05-1	3-Chloro-1-propene	9.8	U	9.8
107-06-2	1,2-Dichloroethane	4.9	U	4.9
108-05-4	Vinyl acetate	9.8	U	9.8
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U	20
108-67-8	1,3,5-Trimethylbenzene	4.9	U	4.9
108-86-1	Bromobenzene	4.9	U	4.9
108-87-2	Methylcyclohexane	4.9	U	4.9
108-88-3	Toluene	4.9	U	4.9
108-90-7	Chlorobenzene	4.9	U	4.9
109-99-9	Tetrahydrofuran	20	U	20
110-54-3	Hexane	4.9	U	4.9
110-82-7	Cyclohexane	4.9	U	4.9
120-82-1	1,2,4-Trichlorobenzene	4.9	U	4.9
124-48-1	Chlorodibromomethane	4.9	U	4.9
127-18-4	Tetrachloroethene	4.9	U	4.9
135-98-8	sec-Butylbenzene	4.9	U	4.9
142-28-9	1,3-Dichloropropane	4.9	U	4.9
156-59-2	cis-1,2-Dichloroethene	2.5	U	2.5
156-60-5	trans-1,2-Dichloroethene	2.5	U	2.5
1634-04-4	Methyl tert-butyl ether	20	U	20
179601-23-1	m-Xylene & p-Xylene	2.5	U	2.5
541-73-1	1,3-Dichlorobenzene	4.9	U	4.9
56-23-5	Carbon tetrachloride	4.9	U	4.9
563-58-6	1,1-Dichloropropene	4.9	U	4.9
591-78-6	2-Hexanone	20	U	20

MT

FORM I
CC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1
SDG No.:
Client Sample ID: POST-SO-SB6-15-04022024 | Lab Sample ID: 280-189645-3
Matrix: Solid | Lab File ID: MS12_044230.D
Analysis Method: 8260D | Date Collected: 04/02/2024 18:00
Sample wt/vol: 6.041(g) | Date Analyzed: 04/14/2024 17:16
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 15.6 % Solids: 84.4 | Level: (low/med) Low
Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	4.9	U H VJ	4.9
60-29-7	Ethyl ether	9.8	U H VJ	9.8
630-20-6	1,1,1,2-Tetrachloroethane	4.9	U H	4.9
67-64-1	Acetone	83	J	78
67-66-3	Chloroform	9.8	U H VJ	9.8
71-43-2	Benzene	4.9	U H	4.9
71-55-6	1,1,1-Trichloroethane	4.9	U H	4.9
74-83-9	Bromomethane	9.8	U H	9.8
74-87-3	Chloromethane	9.8	U H	9.8
74-88-4	Iodomethane	4.9	U H	4.9
74-95-3	Dibromomethane	4.9	U H	4.9
74-97-5	Chlorobromomethane	4.9	U H	4.9
75-00-3	Chloroethane	9.8	U H	9.8
75-01-4	Vinyl chloride	4.9	U H	4.9
75-09-2	Methylene Chloride	4.9	U H	4.9
75-15-0	Carbon disulfide	4.9	U H	4.9
75-25-2	Bromoform	4.9	U H	4.9
75-27-4	Dichlorobromomethane	4.9	U H	4.9
75-34-3	1,1-Dichloroethane	4.9	U H	4.9
75-35-4	1,1-Dichloroethene	4.9	U H	4.9
75-69-4	Trichlorofluoromethane	9.8	U H	9.8
75-71-8	Dichlorodifluoromethane	9.8	U H	9.8
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U H	20
78-87-5	1,2-Dichloropropane	4.9	U H	4.9
78-93-3	2-Butanone (MEK)	20	U H	20
79-00-5	1,1,2-Trichloroethane	4.9	U H	4.9
79-01-6	Trichloroethene	4.9	U H	4.9
79-20-9	Methyl acetate	9.8	U H	9.8
79-34-5	1,1,2,2-Tetrachloroethane	4.9	U H	4.9
87-61-6	1,2,3-Trichlorobenzene	4.9	U H	4.9
87-68-3	Hexachlorobutadiene	4.9	U H	4.9
91-20-3	Naphthalene	6.5	U H	6.5
95-47-6	o-Xylene	2.5	U H	2.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB6-15-04022024 | Lab Sample ID: 280-189645-3

Matrix: Solid | Lab File ID: MS12_044230.D

Analysis Method: 8260D | Date Collected: 04/02/2024 18:00

Sample wt/vol: 6.041(g) | Date Analyzed: 04/14/2024 17:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 15.6 % Solids: 84.4 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	4.9	U	4.9
95-50-1	1,2-Dichlorobenzene	4.9	U	4.9
95-63-6	1,2,4-Trimethylbenzene	4.9	U	4.9
96-12-8	1,2-Dibromo-3-Chloropropane	9.8	U	9.8
96-18-4	1,2,3-Trichloropropane	4.9	U	4.9
97-63-2	Ethyl methacrylate	4.9	U	4.9
98-06-6	tert-Butylbenzene	4.9	U	4.9
98-82-8	Isopropylbenzene	4.9	U	4.9
99-87-6	4-Isopropyltoluene	4.9	U	4.9
1330-20-7	Xylenes, Total	4.9	U	4.9
540-59-0	1,2-Dichloroethene, Total	4.9	U	4.9
542-75-6	1,3-Dichloropropene, Total	4.9	U	4.9
STL00209	Trihalomethanes, Total	9.8	U	9.8
STL00431	Total BTEX	4.9	U	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		58-140
1868-53-7	Dibromofluoromethane (Surr)	99		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	105		76-127

4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB6-20-04022024 | Lab Sample ID: 280-189645-4

Matrix: Solid | Lab File ID: MS12_044231.D

Analysis Method: 8260D | Date Collected: 04/02/2024 18:05

Sample wt/vol: 6.020(g) | Date Analyzed: 04/14/2024 17:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 12.9 % Solids: 87.1 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	
100-41-4	Ethylbenzene	4.8	U	4.8
100-42-5	Styrene	4.8	U	4.8
10061-01-5	cis-1,3-Dichloropropene	4.8	U	4.8
10061-02-6	trans-1,3-Dichloropropene	4.8	U	4.8
103-65-1	N-Propylbenzene	4.8	U	4.8
104-51-8	n-Butylbenzene	4.8	U	4.8
106-43-4	4-Chlorotoluene	4.8	U	4.8
106-46-7	1,4-Dichlorobenzene	4.8	U	4.8
106-93-4	Ethylene Dibromide	4.8	U	4.8
107-05-1	3-Chloro-1-propene	9.5	U	9.5
107-06-2	1,2-Dichloroethane	4.8	U	4.8
108-05-4	Vinyl acetate	9.5	U	9.5
108-10-1	4-Methyl-2-pentanone (MIBK)	19	U	19
108-67-8	1,3,5-Trimethylbenzene	4.8	U	4.8
108-86-1	Bromobenzene	4.8	U	4.8
108-87-2	Methylcyclohexane	4.8	U	4.8
108-88-3	Toluene	4.8	U	4.8
108-90-7	Chlorobenzene	4.8	U	4.8
109-99-9	Tetrahydrofuran	19	U	19
110-54-3	Hexane	4.8	U	4.8
110-82-7	Cyclohexane	4.8	U	4.8
120-82-1	1,2,4-Trichlorobenzene	4.8	U	4.8
124-48-1	Chlorodibromomethane	4.8	U	4.8
127-18-4	Tetrachloroethene	4.8	U	4.8
135-98-8	sec-Butylbenzene	4.8	U	4.8
142-28-9	1,3-Dichloropropane	4.8	U	4.8
156-59-2	cis-1,2-Dichloroethene	2.4	U	2.4
156-60-5	trans-1,2-Dichloroethene	2.4	U	2.4
1634-04-4	Methyl tert-butyl ether	19	U	19
179601-23-1	m-Xylene & p-Xylene	2.4	U	2.4
541-73-1	1,3-Dichlorobenzene	4.8	U	4.8
56-23-5	Carbon tetrachloride	4.8	U	4.8
563-58-6	1,1-Dichloropropene	4.8	U	4.8
591-78-6	2-Hexanone	19	U	19

HT

MF 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB6-20-04022024 | Lab Sample ID: 280-189645-4

Matrix: Solid | Lab File ID: MS12_044231.D

Analysis Method: 8260D | Date Collected: 04/02/2024 18:05

Sample wt/vol: 6.020(g) | Date Analyzed: 04/14/2024 17:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 12.9 % Solids: 87.1 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	4.8	U	4.8
60-29-7	Ethyl ether	9.5	U	9.5
630-20-6	1,1,1,2-Tetrachloroethane	4.8	U	4.8
67-64-1	Acetone	76	U	76
67-66-3	Chloroform	9.5	U	9.5
71-43-2	Benzene	4.8	U	4.8
71-55-6	1,1,1-Trichloroethane	4.8	U	4.8
74-83-9	Bromomethane	9.5	U	9.5
74-87-3	Chloromethane	9.5	U	9.5
74-88-4	Iodomethane	4.8	U	4.8
74-95-3	Dibromomethane	4.8	U	4.8
74-97-5	Chlorobromomethane	4.8	U	4.8
75-00-3	Chloroethane	9.5	U	9.5
75-01-4	Vinyl chloride	4.8	U	4.8
75-09-2	Methylene Chloride	4.8	U	4.8
75-15-0	Carbon disulfide	4.8	U	4.8
75-25-2	Bromoform	4.8	U	4.8
75-27-4	Dichlorobromomethane	4.8	U	4.8
75-34-3	1,1-Dichloroethane	4.8	U	4.8
75-35-4	1,1-Dichloroethene	4.8	U	4.8
75-69-4	Trichlorofluoromethane	9.5	U	9.5
75-71-8	Dichlorodifluoromethane	9.5	U	9.5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19	U	19
78-87-5	1,2-Dichloropropane	4.8	U	4.8
78-93-3	2-Butanone (MEK)	19	U	19
79-00-5	1,1,2-Trichloroethane	4.8	U	4.8
79-01-6	Trichloroethene	4.8	U	4.8
79-20-9	Methyl acetate	9.5	U	9.5
79-34-5	1,1,2,2-Tetrachloroethane	4.8	U	4.8
87-61-6	1,2,3-Trichlorobenzene	4.8	U	4.8
87-68-3	Hexachlorobutadiene	4.8	U	4.8
91-20-3	Naphthalene	6.3	U	6.3
95-47-6	o-Xylene	2.4	U	2.4

4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB6-20-04022024 | Lab Sample ID: 280-189645-4

Matrix: Solid | Lab File ID: MS12_044231.D

Analysis Method: 8260D | Date Collected: 04/02/2024 18:05

Sample wt/vol: 6.020(g) | Date Analyzed: 04/14/2024 17:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 12.9 % Solids: 87.1 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	4.8	U	4.8
95-50-1	1,2-Dichlorobenzene	4.8	U	4.8
95-63-6	1,2,4-Trimethylbenzene	4.8	U	4.8
96-12-8	1,2-Dibromo-3-Chloropropane	9.5	U	9.5
96-18-4	1,2,3-Trichloropropane	4.8	U	4.8
97-63-2	Ethyl methacrylate	4.8	U	4.8
98-06-6	tert-Butylbenzene	4.8	U	4.8
98-82-8	Isopropylbenzene	4.8	U	4.8
99-87-6	4-Isopropyltoluene	4.8	U	4.8
1330-20-7	Xylenes, Total	4.8	U	4.8
540-59-0	1,2-Dichloroethene, Total	4.8	U	4.8
542-75-6	1,3-Dichloropropene, Total	4.8	U	4.8
STL00209	Trihalomethanes, Total	9.5	U	9.5
STL00431	Total BTEX	4.8	U	4.8

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CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		58-140
1868-53-7	Dibromofluoromethane (Surr)	99		75-121
2037-26-5	Toluene-d8 (Surr)	98		80-126
460-00-4	4-Bromofluorobenzene (Surr)	103		76-127

MT 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-05-04032024 | Lab Sample ID: 280-189645-5

Matrix: Solid | Lab File ID: MS12_044232.D

Analysis Method: 8260D | Date Collected: 04/03/2024 12:40

Sample wt/vol: 3.950(g) | Date Analyzed: 04/14/2024 17:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.4 % Solids: 85.6 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	7.4	U	7.4
100-42-5	Styrene	7.4	U	7.4
10061-01-5	cis-1,3-Dichloropropene	7.4	U	7.4
10061-02-6	trans-1,3-Dichloropropene	7.4	U	7.4
103-65-1	N-Propylbenzene	7.4	U	7.4
104-51-8	n-Butylbenzene	7.4	U	7.4
106-43-4	4-Chlorotoluene	7.4	U	7.4
106-46-7	1,4-Dichlorobenzene	7.4		7.4
106-93-4	Ethylene dibromide	7.4	U	7.4
107-05-1	3-Chloro-1-propene	[illegible]		
107-06-2	1,2-Dichloroethane	7.4		7.4
108-05-4	Vinyl acetate	[illegible]		
108-10-1	4-Methyl-2-pentanone (MIBK)	30	U	30
108-67-8	1,3,5-Trimethylbenzene	7.4	U	7.4
108-86-1	Bromobenzene	7.4	U	7.4
108-87-2	Methylcyclohexane	7.4	U	7.4
108-88-3	Toluene	7.4	U	7.4
108-90-7	Chlorobenzene	7.4	U	7.4
109-99-9	Tetrahydrofuran	30	U	30
110-54-3	Hexane	7.4	U	7.4
110-82-7	Cyclohexane	7.4	U	7.4
120-82-1	1,2,4-Trichlorobenzene	7.4	U	7.4
124-48-1	Chlorodibromomethane	7.4	U	7.4
127-18-4	Tetrachloroethene	280		7.4
135-98-8	sec-Butylbenzene	7.4	U	7.4
142-28-9	1,3-Dichloropropane	7.4	U	7.4
156-59-2	cis-1,2-Dichloroethene	3.7	U	3.7
156-60-5	trans-1,2-Dichloroethene	3.7	U	3.7
1634-04-4	Methyl tert-butyl ether	30	U	30
179601-23-1	m-Xylene & p-Xylene	3.7	U	3.7
541-73-1	1,3-Dichlorobenzene	7.4	U	7.4
56-23-5	Carbon tetrachloride	7.4	U	7.4
563-58-6	1,1-Dichloropropene	7.4	U	7.4
591-78-6	2-Hexanone	30	U	30

MT 04/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-05-04032024 | Lab Sample ID: 280-189645-5

Matrix: Solid | Lab File ID: MS12_044232.D

Analysis Method: 8260D | Date Collected: 04/03/2024 12:40

Sample wt/vol: 3.950(g) | Date Analyzed: 04/14/2024 17:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.4 % Solids: 85.6 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	7.4	U	7.4
60-29-7	Ethyl ether	15	U	15
630-20-6	1,1,1,2-Tetrachloroethane	7.4	U	7.4
67-64-1	Acetone	400		120
67-66-3	Chloroform	15	U	15
71-43-2	Benzene	7.4	U	7.4
71-55-6	1,1,1-Trichloroethane	7.4	U	7.4
74-83-9	Bromomethane	15	U	15
74-87-3	Chloromethane	15	U	15
74-88-4	Iodomethane	7.4	U	7.4
74-95-3	Dibromomethane	7.4	U	7.4
74-97-5	Chlorobromomethane	7.4	U	7.4
75-00-3	Chloroethane	15	U	15
75-01-4	Vinyl chloride	7.4	U	7.4
75-09-2	Methylene Chloride	7.4	U	7.4
75-15-0	Carbon disulfide	7.4	U	7.4
75-25-2	Bromoform	7.4	U	7.4
75-27-4	Dichlorobromomethane	7.4	U	7.4
75-34-3	1,1-Dichloroethane	7.4	U	7.4
75-35-4	1,1-Dichloroethene	7.4	U	7.4
75-69-4	Trichlorofluoromethane	15	U	15
75-71-8	Dichlorodifluoromethane	15	U	15
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30	U	30
78-87-5	1,2-Dichloropropane	7.4	U	7.4
78-93-3	2-Butanone (MEK)	57		30
79-00-5	1,1,2-Trichloroethane	7.4	U	7.4
79-01-6	Trichloroethene	7.4	U	7.4
79-20-9	Methyl acetate	15	U	15
79-34-5	1,1,2,2-Tetrachloroethane	7.4	U	7.4
87-61-6	1,2,3-Trichlorobenzene	7.4	U	7.4
87-68-3	Hexachlorobutadiene	7.4	U	7.4
91-20-3	Naphthalene	9.8	U	9.8
95-47-6	o-Xylene	3.7	U	3.7

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-05-04032024 | Lab Sample ID: 280-189645-5

Matrix: Solid | Lab File ID: MS12_044232.D

Analysis Method: 8260D | Date Collected: 04/03/2024 12:40

Sample wt/vol: 3.950(g) | Date Analyzed: 04/14/2024 17:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.4 % Solids: 85.6 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	7.4	U	7.4
95-50-1	1,2-Dichlorobenzene	7.4	U	7.4
95-63-6	1,2,4-Trimethylbenzene	7.4	U	7.4
96-12-8	1,2-Dibromo-3-Chloropropane	15	U	15
96-18-4	1,2,3-Trichloropropane	7.4	U	7.4
97-63-2	Ethyl methacrylate	7.4	U	7.4
98-06-6	tert-Butylbenzene	7.4	U	7.4
98-82-8	Isopropylbenzene	7.4	U	7.4
99-87-6	4-Isopropyltoluene	7.4	U	7.4
1330-20-7	Xylenes, Total	7.4	U	7.4
540-59-0	1,2-Dichloroethene, Total	7.4	U	7.4
542-75-6	1,3-Dichloropropene, Total	7.4	U	7.4
9TL00209	Trihalomethanes, Total	15	U	15
9TL00431	Total BTEX	7.4	U	7.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		68-140
1868-53-7	Dibromofluoromethane (Surr)	96		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	110		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-10-04032024 Lab Sample ID: 280-189645-6

Matrix: Solid Lab File ID: MS12_044233.D

Analysis Method: 8260D Date Collected: 04/03/2024 12:45

Sample wt/vol: 5.321(g) Date Analyzed: 04/14/2024 18:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 19.1 % Solids: 80.9 Level: (low/med) Low

Analysis Batch No.: 649463 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.8	U	5.8
100-42-5	Styrene	5.8	U	5.8
10061-01-5	cis-1,3-Dichloropropene	5.8	U	5.8
10061-02-6	trans-1,3-Dichloropropene	5.8	U	5.8
103-65-1	N-Propylbenzene	5.8	U	5.8
104-51-8	n-Butylbenzene	5.8	U	5.8
106-43-4	4-Chlorotoluene	5.8	U	5.8
106-46-7	1,4-Dichlorobenzene	5.8	U	5.8
106-93-4	Ethylene Dibromide	5.8	U	5.8
107-05-1	3-Chloro-1-propene	12	U	12
107-06-2	1,2-Dichloroethane	5.8	U	5.8
108-05-4	Vinyl acetate	12	U	12
108-10-1	4-Methyl-2-pentanone (MIBK)	23	U	23
108-67-8	1,3,5-Trimethylbenzene	5.8	U	5.8
108-86-1	Bromobenzene	5.8	U	5.8
108-87-2	Methylcyclohexane	5.8	U	5.8
108-88-3	Toluene	5.8	U	5.8
108-90-7	Chlorobenzene	5.8	U	5.8
109-99-9	Tetrahydrofuran	23	U	23
110-54-3	Hexane	5.8	U	5.8
110-82-7	Cyclohexane	5.8	U	5.8
120-82-1	1,2,4-Trichlorobenzene	5.8	U	5.8
124-48-1	Chlorodibromomethane	5.8	U	5.8
127-18-4	Tetrachloroethene	5.8	U	5.8
135-98-8	sec-Butylbenzene	5.8	U	5.8
142-28-9	1,3-Dichloropropane	5.8	U	5.8
156-59-2	cis-1,2-Dichloroethene	2.9	U	2.9
156-60-5	trans-1,2-Dichloroethene	2.9	U	2.9
1634-04-4	Methyl tert-butyl ether	23	U	23
179601-23-1	m-Xylene & p-Xylene	2.9	U	2.9
541-73-1	1,3-Dichlorobenzene	5.8	U	5.8
56-23-5	Carbon tetrachloride	5.8	U	5.8
563-58-6	1,1-Dichloropropene	5.8	U	5.8
591-78-6	2-Hexanone	23	U	23

6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-10-04032024 Lab Sample ID: 280-189645-6

Matrix: Solid Lab File ID: MS12_044233.D

Analysis Method: 8260D Date Collected: 04/03/2024 12:45

Sample wt/vol: 5.321(g) Date Analyzed: 04/14/2024 18:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 19.1 % Solids: 80.9 Level: (low/med) Low

Analysis Batch No.: 649463 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.8	U	5.8
60-29-7	Ethyl ether	12	U	12
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U	5.8
67-64-1	Acetone	160		93
67-66-3	Chloroform	12	U	12
71-43-2	Benzene	5.8	U	5.8
71-55-6	1,1,1-Trichloroethane	5.8	U	5.8
74-83-9	Bromomethane	12	U	12
74-87-3	Chloromethane	12	U	12
74-88-4	Iodomethane	5.8	U	5.8
74-95-3	Dibromomethane	5.8	U	5.8
74-97-5	Chlorobromomethane	5.8	U	5.8
75-00-3	Chloroethane	12	U	12
75-01-4	Vinyl chloride	5.8	U	5.8
75-09-2	Methylene Chloride	5.8	U	5.8
75-15-0	Carbon disulfide	5.8	U	5.8
75-25-2	Bromoform	5.8	U	5.8
75-27-4	Dichlorobromomethane	5.8	U	5.8
75-34-3	1,1-Dichloroethane	5.8	U	5.8
75-35-4	1,1-Dichloroethene	5.8	U	5.8
75-69-4	Trichlorofluoromethane	12	U	12
75-71-8	Dichlorodifluoromethane	12	U	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	23
78-87-5	1,2-Dichloropropane	5.8	U	5.8
78-93-3	2-Butanone (MEK)	23	U	23
79-00-5	1,1,2-Trichloroethane	5.8	U	5.8
79-01-6	Trichloroethene	5.8	U	5.8
79-20-9	Methyl acetate	12	U	12
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U	5.8
87-61-6	1,2,3-Trichlorobenzene	5.8	U	5.8
87-68-3	Hexachlorobutadiene	5.8	U	5.8
91-20-3	Naphthalene	7.7	U	7.7
95-47-6	o-Xylene	2.9	U	2.9

MR 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1
SDG No.:
Client Sample ID: POST-SO-SB4-10-04032024 | Lab Sample ID: 280-189645-6
Matrix: Solid | Lab File ID: MS12_044233.D
Analysis Method: 8260D | Date Collected: 04/03/2024 12:45
Sample wt/vol: 5.321(g) | Date Analyzed: 04/14/2024 18:16
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 19.1 % Solids: 80.9 | Level: (low/med) Low
Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.8	U	5.8
95-50-1	1,2-Dichlorobenzene	5.8	U	5.8
95-63-6	1,2,4-Trimethylbenzene	5.8	U	5.8
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12
96-18-4	1,2,3-Trichloropropane	5.8	U	5.8
97-63-2	Ethyl methacrylate	5.8	U	5.8
98-06-6	tert-Butylbenzene	5.8	U	5.8
98-82-8	Isopropylbenzene	5.8	U	5.8
99-87-6	4-Isopropyltoluene	5.8	U	5.8
1330-20-7	Xylenes, Total	5.8	U	5.8
540-59-0	1,2-Dichloroethene, Total	5.8	U	5.8
542-75-6	1,3-Dichloropropene, Total	5.8	U	5.8
STL00209	Trihalomethanes, Total	12	U	12
STL00431	Total BTEX	5.8	U	5.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		58-140
1868-53-7	Dibromofluoromethane (Surr)	98		73-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	104		76-127

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-15-04032024 Lab Sample ID: 280-189645-7

Matrix: Solid Lab File ID: MS12_044234.D

Analysis Method: 8260D Date Collected: 04/03/2024 12:50

Sample wt/vol: 5.730(g) Date Analyzed: 04/14/2024 18:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 16.3 % Solids: 83.7 Level: (low/med) Low

Analysis Batch No.: 649463 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.2	U	5.2
100-42-5	Styrene	5.2	U	5.2
10061-01-5	cis-1,3-Dichloropropene	5.2	U	5.2
10061-02-6	trans-1,3-Dichloropropene	5.2	U	5.2
103-65-1	N-Propylbenzene	5.2	U	5.2
104-51-8	n-Butylbenzene	5.2	U	5.2
106-43-4	4-Chlorotoluene	5.2	U	5.2
106-46-7	1,4-Dichlorobenzene	5.2	U	5.2
106-93-4	Ethylene Dibromide	5.2	U	5.2
107-05-1	3-Chloro-1-propene	10	U	10
107-06-2	1,2-Dichloroethane	5.2	U	5.2
108-05-4	Vinyl acetate	10	U	10
108-10-1	4-Methyl-2-pentanone (MIBK)	21	U	21
108-67-8	1,3,5-Trimethylbenzene	5.2	U	5.2
108-86-1	Bromobenzene	5.2	U	5.2
108-87-2	Methylcyclohexane	5.2	U	5.2
108-88-3	Toluene	5.2	U	5.2
108-90-7	Chlorobenzene	5.2	U	5.2
109-99-9	Tetrahydrofuran	21	U	21
110-54-3	Hexane	5.2	U	5.2
110-82-7	Cyclohexane	5.2	U	5.2
120-82-1	1,2,4-Trichlorobenzene	5.2	U	5.2
124-48-1	Chlorodibromomethane	5.2	U	5.2
127-18-4	Tetrachloroethene	5.2	U	5.2
135-98-8	sec-Butylbenzene	5.2	U	5.2
142-29-9	1,3-Dichloropropane	5.2	U	5.2
156-59-2	cis-1,2-Dichloroethene	2.6	U	2.6
156-60-5	trans-1,2-Dichloroethene	2.6	U	2.6
1634-04-4	Methyl tert-butyl ether	21	U	21
179601-23-1	m-Xylene & p-Xylene	2.6	U	2.6
541-73-1	1,3-Dichlorobenzene	5.2	U	5.2
56-23-5	Carbon tetrachloride	5.2	U	5.2
563-58-6	1,1-Dichloropropene	5.2	U	5.2
591-78-6	2-Hexanone	21	U	21

MM 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-15-04032024 | Lab Sample ID: 280-189645-7

Matrix: Solid | Lab File ID: MS12_044234.D

Analysis Method: 8260D | Date Collected: 04/03/2024 12:50

Sample wt/vol: 5.730(g) | Date Analyzed: 04/14/2024 18:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 16.3 % Solids: 83.7 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.2	U	5.2
60-29-7	Ethyl ether	10	U	10
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U	5.2
67-64-1	Acetone	110		83
67-66-3	Chloroform	10	U	10
71-43-2	Benzene	5.2	U	5.2
71-55-6	1,1,1-Trichloroethane	5.2	U	5.2
74-83-9	Bromomethane	10	U	10
74-87-3	Chloromethane	10	U	10
74-88-4	Iodomethane	5.2	U	5.2
74-95-3	Dibromomethane	5.2	U	5.2
74-97-5	Chlorobromomethane	5.2	U	5.2
75-00-3	Chloroethane	10	U	10
75-01-4	Vinyl chloride	5.2	U	5.2
75-09-2	Methylene Chloride	5.2	U	5.2
75-15-0	Carbon disulfide	5.2	U	5.2
75-25-2	Bromoform	5.2	U	5.2
75-27-4	Dichlorobromomethane	5.2	U	5.2
75-34-3	1,1-Dichloroethane	5.2	U	5.2
75-35-4	1,1-Dichloroethene	5.2	U	5.2
75-69-4	Trichlorofluoromethane	10	U	10
75-71-8	Dichlorodifluoromethane	10	U	10
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21
78-87-5	1,2-Dichloropropane	5.2	U	5.2
78-93-3	2-Butanone (MEK)	21	U	21
79-00-5	1,1,2-Trichloroethane	5.2	U	5.2
79-01-6	Trichloroethene	5.2	U	5.2
79-20-9	Methyl acetate	10	U	10
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U	5.2
87-61-6	1,2,3-Trichlorobenzene	5.2	U	5.2
87-68-3	Hexachlorobutadiene	5.2	U	5.2
91-20-3	Naphthalene	6.9	U	6.9
95-47-6	o-Xylene	2.6	U	2.6

MT 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1
SDG No.:
Client Sample ID: POST-SO-SB4-15-04032024 | Lab Sample ID: 280-189645-7
Matrix: Solid | Lab File ID: MS12_044234.D
Analysis Method: 8260D | Date Collected: 04/03/2024 12:50
Sample wt/vol: 5.730(g) | Date Analyzed: 04/14/2024 18:35
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 16.3 % Solids: 83.7 | Level: (low/med) Low
Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.2	U	5.2
95-50-1	1,2-Dichlorobenzene	5.2	U	5.2
95-63-6	1,2,4-Trimethylbenzene	5.2	U	5.2
96-12-8	1,2-Dibromo-3-Chloropropane	10	U	10
96-18-4	1,2,3-Trichloropropane	5.2	U	5.2
97-63-2	Ethyl methacrylate	5.2	U	5.2
98-06-6	tert-Butylbenzene	5.2	U	5.2
98-82-8	Isopropylbenzene	5.2	U	5.2
99-87-6	4-Isopropyltoluene	5.2	U	5.2
1330-20-7	Xylenes, Total	5.2	U	5.2
540-59-0	1,2-Dichloroethene, Total	5.2	U	5.2
542-75-6	1,3-Dichloropropene, Total	5.2	U	5.2
STL00209	Trihalomethanes, Total	10	U	10
STL00431	Total BTEX	5.2	U	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		58-140
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	104		76-127

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-20-04032024 | Lab Sample ID: 280-189645-8

Matrix: Solid | Lab File ID: MS12_044235.D

Analysis Method: 8260D | Date Collected: 04/03/2024 13:05

Sample wt/vol: 5.547(g) | Date Analyzed: 04/14/2024 18:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.3 % Solids: 85.7 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.3	U	5.3
100-42-5	Styrene	5.3	U	5.3
10061-01-5	cis-1,3-Dichloropropene	5.3	U	5.3
10061-02-6	trans-1,3-Dichloropropene	5.3	U	5.3
103-65-1	N-Propylbenzene	5.3	U	5.3
104-51-8	n-Butylbenzene	5.3	U	5.3
106-43-4	4-Chlorotoluene	5.3	U	5.3
106-46-7	1,4-Dichlorobenzene	5.3	U	5.3
106-93-4	Ethylene Dibromide	5.3	U	5.3
107-05-1	3-Chloro-1-propene	11	U	11
107-06-2	1,2-Dichloroethane	5.3	U	5.3
108-05-4	Vinyl acetate	11	U	11
108-10-1	4-Methyl-2-pentanone (MIBK)	21	U	21
108-67-8	1,3,5-Trimethylbenzene	5.3	U	5.3
108-86-1	Bromobenzene	5.3	U	5.3
108-87-2	Methylcyclohexane	5.3	U	5.3
108-88-3	Toluene	5.3	U	5.3
108-90-7	Chlorobenzene	5.3	U	5.3
109-99-9	Tetrahydrofuran	21	U	21
110-54-3	Hexane	5.3	U	5.3
110-82-7	Cyclohexane	5.3	U	5.3
120-82-1	1,2,4-Trichlorobenzene	5.3	U	5.3
124-48-1	Chlorodibromomethane	5.3	U	5.3
127-18-4	Tetrachloroethene	5.3	U	5.3
135-98-8	sec-Butylbenzene	5.3	U	5.3
142-28-9	1,3-Dichloropropane	5.3	U	5.3
156-59-2	cis-1,2-Dichloroethene	2.6	U	2.6
156-60-5	trans-1,2-Dichloroethene	2.6	U	2.6
1634-04-4	Methyl tert-butyl ether	21	U	21
179601-23-1	m-Xylene & p-Xylene	2.6	U	2.6
541-73-1	1,3-Dichlorobenzene	5.3	U	5.3
56-23-5	Carbon tetrachloride	5.3	U	5.3
563-58-6	1,1-Dichloropropene	5.3	U	5.3
591-78-6	2-Hexanone	21	U	21

MM 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-20-04032024 Lab Sample ID: 280-189645-8

Matrix: Solid Lab File ID: MS12_044235.D

Analysis Method: 8260D Date Collected: 04/03/2024 13:05

Sample wt/vol: 5.547(g) Date Analyzed: 04/14/2024 18:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 14.3 % Solids: 85.7 Level: (low/med) Low

Analysis Batch No.: 649463 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.3	U	5.3
60-29-7	Ethyl ether	11	U	11
630-20-6	1,1,1,2-Tetrachloroethane	5.3	U	5.3
67-64-1	Acetone	160		84
67-66-3	Chloroform	11	U	11
71-43-2	Benzene	5.3	U	5.3
71-55-6	1,1,1-Trichloroethane	5.3	U	5.3
74-83-9	Bromomethane	11	U	11
74-87-3	Chloromethane	11	U	11
74-88-4	Iodomethane	5.3	U	5.3
74-95-3	Dibromomethane	5.3	U	5.3
74-97-5	Chlorobromomethane	5.3	U	5.3
75-00-3	Chloroethane	11	U	11
75-01-4	Vinyl chloride	5.3	U	5.3
75-09-2	Methylene Chloride	5.3	U	5.3
75-15-0	Carbon disulfide	5.3	U	5.3
75-25-2	Bromoform	5.3	U	5.3
75-27-4	Dichlorobromomethane	5.3	U	5.3
75-34-3	1,1-Dichloroethane	5.3	U	5.3
75-35-4	1,1-Dichloroethene	5.3	U	5.3
75-69-4	Trichlorofluoromethane	11	U	11
75-71-8	Dichlorodifluoromethane	11	U	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21
78-87-5	1,2-Dichloropropane	5.3	U	5.3
78-93-3	2-Butanone (MEK)	21	U	21
79-00-5	1,1,2-Trichloroethane	5.3	U	5.3
79-01-6	Trichloroethene	5.3	U	5.3
79-20-9	Methyl acetate	11	U	11
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U	5.3
87-61-6	1,2,3-Trichlorobenzene	5.3	U	5.3
87-68-3	Hexachlorobutadiene	5.3	U	5.3
91-20-3	Naphthalene	6.9	U	6.9
95-47-6	o-Xylene	2.6	U	2.6

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-20-04032024 | Lab Sample ID: 280-189645-8

Matrix: Solid | Lab File ID: MS12_044235.D

Analysis Method: 8260D | Date Collected: 04/03/2024 13:05

Sample wt/vol: 5.547(g) | Date Analyzed: 04/14/2024 18:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.3 % Solids: 85.7 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.3	U	5.3
95-50-1	1,2-Dichlorobenzene	5.3	U	5.3
95-63-6	1,2,4-Trimethylbenzene	5.3	U	5.3
96-12-8	1,2-Dibromo-3-Chloropropane	11	U	11
96-18-4	1,2,3-Trichloropropane	5.3	U	5.3
97-63-2	Ethyl methacrylate	5.3	U	5.3
98-06-6	tert-Butylbenzene	5.3	U	5.3
98-82-8	Isopropylbenzene	5.3	U	5.3
99-87-6	4-Isopropyltoluene	5.3	U	5.3
1330-20-7	Xylenes, Total	5.3	U	5.3
540-59-0	1,2-Dichloroethene, Total	5.3	U	5.3
542-75-6	1,3-Dichloropropene, Total	5.3	U	5.3
8T:00209	Trihalomethanes, Total	11	U	11
8T:00433	Total BTEX	5.3	U	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		58-140
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
2037-26-5	Toluene-d8 (Surr)	98		80-126
460-00-4	4-Bromofluorobenzene (Surr)	103		76-127

MT 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-25-04032024 | Lab Sample ID: 280-189645-9

Matrix: Solid | Lab File ID: MS12_044236.D

Analysis Method: 8260D | Date Collected: 04/03/2024 13:10

Sample wt/vol: 5.542(g) | Date Analyzed: 04/14/2024 19:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.5 % Solids: 85.5 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.3	U	5.3
100-42-5	Styrene	5.3	U	5.3
10061-01-5	cis-1,3-Dichloropropene	5.3	U	5.3
10061-02-6	trans-1,3-Dichloropropene	5.3	U	5.3
103-65-1	N-Propylbenzene	5.3	U	5.3
104-51-8	n-Butylbenzene	5.3	U	5.3
106-43-4	4-Chlorotoluene	5.3	U	5.3
106-46-7	1,4-Dichlorobenzene	5.3	U	5.3
106-93-4	Ethylene Dibromide	5.3	U	5.3
107-05-1	3-Chloro-1-propene	11	U	11
107-06-2	1,2-Dichloroethane	5.3	U	5.3
108-05-4	Vinyl acetate	11	U	11
108-10-1	4-Methyl-2-pentanone (MIBK)	21	U	21
108-67-8	1,3,5-Trimethylbenzene	5.3	U	5.3
108-86-1	Bromobenzene	5.3	U	5.3
108-87-2	Methylcyclohexane	5.3	U	5.3
108-88-3	Toluene	5.3	U	5.3
108-90-7	Chlorobenzene	5.3	U	5.3
109-99-9	Tetrahydrofuran	21	U	21
110-54-3	Hexane	5.3	U	5.3
110-82-7	Cyclohexane	5.3	U	5.3
120-82-1	1,2,4-Trichlorobenzene	5.3	U	5.3
124-48-1	Chlorodibromomethane	5.3	U	5.3
127-18-4	Tetrachloroethene	5.3	U	5.3
135-98-8	sec-Butylbenzene	5.3	U	5.3
142-28-9	1,3-Dichloropropane	5.3	U	5.3
156-59-2	cis-1,2-Dichloroethene	2.6	U	2.6
156-60-5	trans-1,2-Dichloroethene	2.6	U	2.6
1634-04-4	Methyl tert-butyl ether	21	U	21
179601-23-1	m-Xylene & p-Xylene	2.6	U	2.6
541-73-1	1,3-Dichlorobenzene	5.3	U	5.3
56-23-5	Carbon tetrachloride	5.3	U	5.3
563-58-6	1,1-Dichloropropene	5.3	U	5.3
591-78-6	2-Hexanone	21	U	21

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-25-04032024 Lab Sample ID: 280-189645-9

Matrix: Solid Lab File ID: MS12_044236.D

Analysis Method: 8260D Date Collected: 04/03/2024 13:10

Sample wt/vol: 5.542(g) Date Analyzed: 04/14/2024 19:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 14.5 % Solids: 85.5 Level: (low/med) Low

Analysis Batch No.: 649463 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.3	U	5.3
60-29-7	Ethyl ether	11	U	11
630-20-6	1,1,1,2-Tetrachloroethane	5.3	U	5.3
67-64-1	Acetone	84	U	84
67-66-3	Chloroform	11	U	11
71-43-2	Benzene	5.3	U	5.3
71-55-6	1,1,1-Trichloroethane	5.3	U	5.3
74-83-9	Bromomethane	11	U	11
74-87-3	Chloromethane	11	U	11
74-88-4	Iodomethane	5.3	U	5.3
74-95-3	Dibromomethane	5.3	U	5.3
74-97-5	Chlorobromomethane	5.3	U	5.3
75-00-3	Chloroethane	11	U	11
75-01-4	Vinyl chloride	5.3	U	5.3
75-09-2	Methylene Chloride	5.3	U	5.3
75-15-0	Carbon disulfide	5.3	U	5.3
75-25-2	Bromoform	5.3	U	5.3
75-27-4	Dichlorobromomethane	5.3	U	5.3
75-34-3	1,1-Dichloroethane	5.3	U	5.3
75-35-4	1,1-Dichloroethene	5.3	U	5.3
75-69-4	Trichlorofluoromethane	11	U	11
75-71-8	Dichlorodifluoromethane	11	U	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21
78-87-5	1,2-Dichloropropane	5.3	U	5.3
78-93-3	2-Butanone (MEK)	21	U	21
79-00-5	1,1,2-Trichloroethane	5.3	U	5.3
79-01-6	Trichloroethene	5.3	U	5.3
79-20-9	Methyl acetate	11	U	11
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U	5.3
87-61-6	1,2,3-Trichlorobenzene	5.3	U	5.3
87-68-3	Hexachlorobutadiene	5.3	U	5.3
91-20-3	Naphthalene	7.0	U	7.0
95-47-6	o-Xylene	2.6	U	2.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-25-04032024 Lab Sample ID: 280-189645-9

Matrix: Solid Lab File ID: MS12_044236.D

Analysis Method: 8260D Date Collected: 04/03/2024 13:10

Sample wt/vol: 5.542(g) Date Analyzed: 04/14/2024 19:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 14.5 % Solids: 85.5 Level: (low/med) Low

Analysis Batch No.: 649463 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.3	U	5.3
95-50-1	1,2-Dichlorobenzene	5.3	U	5.3
95-63-6	1,2,4-Trimethylbenzene	5.3	U	5.3
96-12-8	1,2-Dibromo-3-Chloropropane	11	U	11
96-18-4	1,2,3-Trichloropropane	5.3	U	5.3
97-63-2	Ethyl methacrylate	5.3	U	5.3
98-06-6	tert-Butylbenzene	5.3	U	5.3
98-82-8	Isopropylbenzene	5.3	U	5.3
99-87-6	4-Isopropyltoluene	5.3	U	5.3
1330-20-7	Xylenes, Total	5.3	U	5.3
540-59-0	1,2-Dichloroethene, Total	5.3	U	5.3
542-75-6	1,3-Dichloropropene, Total	5.3	U	5.3
STL00209	Trihalomethanes, Total	11	U	11
STL00431	Total BTEX	5.3	U	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		58-140
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
2037-26-5	Toluene-d8 (Surr)	98		80-124
460-00-4	4-Bromofluorobenzene (Surr)	105		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1
SDG No.:
Client Sample ID: POST-SO-SB4-30-04032024 | Lab Sample ID: 280-189645-10
Matrix: Solid | Lab File ID: MS12_044237.D
Analysis Method: 8260D | Date Collected: 04/03/2024 13:15
Sample wt/vol: 4.769(g) | Date Analyzed: 04/14/2024 19:34
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 14.1 % Solids: 85.9 | Level: (low/med) Low
Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	6.1	U	6.1
100-42-5	Styrene	6.1	U	6.1
10061-01-5	cis-1,3-Dichloropropene	6.1	U	6.1
10061-02-6	trans-1,3-Dichloropropene	6.1	U	6.1
103-65-1	N-Propylbenzene	6.1	U	6.1
104-51-8	n-Butylbenzene	6.1	U	6.1
106-43-4	4-Chlorotoluene	6.1	U	6.1
106-46-7	1,4-Dichlorobenzene	6.1	U	6.1
106-93-4	Ethylene Dibromide	6.1	U	6.1
107-05-1	3-Chloro-1-propene	12	U	12
107-06-2	1,2-Dichloroethane	6.1	U	6.1
108-05-4	Vinyl acetate	12	U	12
108-10-1	4-Methyl-2-pentanone (MIBK)	24	U	24
108-67-8	1,3,5-Trimethylbenzene	6.1	U	6.1
108-86-1	Bromobenzene	6.1	U	6.1
108-87-2	Methylcyclohexane	6.1	U	6.1
108-88-3	Toluene	6.1	U	6.1
108-90-7	Chlorobenzene	6.1	U	6.1
109-99-9	Tetrahydrofuran	24	U	24
110-54-3	Hexane	6.1	U	6.1
110-82-7	Cyclohexane	6.1	U	6.1
120-82-1	1,2,4-Trichlorobenzene	6.1	U	6.1
124-48-1	Chlorodibromomethane	6.1	U	6.1
127-18-4	Tetrachloroethene	6.1	U MD	6.1
135-98-8	sec-Butylbenzene	6.1	U	6.1
142-28-9	1,3-Dichloropropane	6.1	U	6.1
156-59-2	cis-1,2-Dichloroethene	3.1	U	3.1
156-60-5	trans-1,2-Dichloroethene	3.1	U	3.1
1634-04-4	Methyl tert-butyl ether	24	U	24
179601-23-1	m-Xylene & p-Xylene	3.1	U	3.1
541-73-1	1,3-Dichlorobenzene	6.1	U	6.1
56-23-5	Carbon tetrachloride	6.1	U	6.1
563-58-6	1,1-Dichloropropene	6.1	U	6.1
591-78-6	2-Hexanone	24	U	24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-30-04032024 Lab Sample ID: 280-189645-10

Matrix: Solid Lab File ID: MS12_044237.D

Analysis Method: 8260D Date Collected: 04/03/2024 13:15

Sample wt/vol: 4.769(g) Date Analyzed: 04/14/2024 19:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 14.1 % Solids: 85.9 Level: (low/med) Low

Analysis Batch No.: 649463 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	6.1	U	6.1
60-29-7	Ethyl ether	12	U	12
630-20-6	1,1,1,2-Tetrachloroethane	6.1	U	6.1
67-64-1	Acetone	98	U	98
67-66-3	Chloroform	12	U	12
71-43-2	Benzene	6.1	U	6.1
71-55-6	1,1,1-Trichloroethane	6.1	U	6.1
74-83-9	Bromomethane	12	U	12
74-87-3	Chloromethane	12	U	12
74-88-4	Iodomethane	6.1	U	6.1
74-95-3	Dibromomethane	6.1	U	6.1
74-97-5	Chlorobromomethane	6.1	U	6.1
75-00-3	Chloroethane	12	U	12
75-01-4	Vinyl chloride	6.1	U	6.1
75-09-2	Methylene Chloride	6.1	U	6.1
75-15-0	Carbon disulfide	6.1	U	6.1
75-25-2	Bromoform	6.1	U	6.1
75-27-4	Dichlorobromomethane	6.1	U	6.1
75-34-3	1,1-Dichloroethane	6.1	U	6.1
75-35-4	1,1-Dichloroethene	6.1	U	6.1
75-69-4	Trichlorofluoromethane	12	U	12
75-71-8	Dichlorodifluoromethane	12	U	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	24
78-87-5	1,2-Dichloropropane	6.1	U	6.1
78-93-3	2-Butanone (MEK)	24	U	24
79-00-5	1,1,2-Trichloroethane	6.1	U	6.1
79-01-6	Trichloroethene	6.1	U	6.1
79-20-9	Methyl acetate	12	U	12
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U	6.1
87-61-6	1,2,3-Trichlorobenzene	6.1	U	6.1
87-68-3	Hexachlorobutadiene	6.1	U	6.1
91-20-3	Naphthalene	6.1	U	6.1

MT 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-30-04032024 | Lab Sample ID: 280-189645-10

Matrix: Solid | Lab File ID: MS12_044237.D

Analysis Method: 8260D | Date Collected: 04/03/2024 13:15

Sample wt/vol: 4.769(g) | Date Analyzed: 04/14/2024 19:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.1 % Solids: 85.9 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	3.1	U	3.1
95-49-8	2-Chlorotoluene	6.1	U	6.1
95-50-1	1,2-Dichlorobenzene	6.1	U	6.1
95-63-6	1,2,4-Trimethylbenzene	6.1	U	6.1
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12
96-18-4	1,2,3-Trichloropropane	6.1	U	6.1
97-63-2	Ethyl methacrylate	6.1	U	6.1
98-06-6	tert-Butylbenzene	6.1	U	6.1
98-82-8	Isopropylbenzene	6.1	U	6.1
99-87-6	4-Isopropyltoluene	6.1	U	6.1
1330-20-7	Xylenes, Total	6.1	U	6.1
540-59-0	1,2-Dichloroethene, Total	6.1	U	6.1
542-75-6	1,3-Dichloropropene, Total	6.1	U	6.1
STL00209	Trihalomethanes, Total	12	U	12
STL00431	Total BTEX	6.1	U	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		58-140
1868-53-7	Dibromofluoromethane (Surr)	99		75-121
2037-26-5	Toluene-d8 (Surr)	97		80-126
460-00-4	4-Bromofluorobenzene (Surr)	104		76-127

MT 4/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1
SDG No.:
Client Sample ID: POST-SO-SB4-35-04032024 | Lab Sample ID: 280-189645-11
Matrix: Solid | Lab File ID: MS12_044238.D
Analysis Method: 8260D | Date Collected: 04/03/2024 13:20
Sample wt/vol: 4.674(g) | Date Analyzed: 04/14/2024 19:54
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 17.1 % Solids: 82.9 | Level: (low/med) Low
Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	6.5	U	6.5
100-42-5	Styrene	6.5	U	6.5
10061-01-5	cis-1,3-Dichloropropene	6.5	U	6.5
10061-02-6	trans-1,3-Dichloropropene	6.5	U	6.5
103-65-1	N-Propylbenzene	6.5	U	6.5
104-51-8	n-Butylbenzene	6.5	U	6.5
106-43-4	4-Chlorotoluene	6.5	U	6.5
106-46-7	1,4-Dichlorobenzene	6.5	U	6.5
106-93-4	Ethylene Dibromide	6.5	U	6.5
107-05-1	3-Chloro-1-propene	13	U	13
107-06-2	1,2-Dichloroethane	6.5	U	6.5
108-05-4	Vinyl acetate	13	U	13
108-10-1	4-Methyl-2-pentanone (MIBK)	26	U	26
108-67-8	1,3,5-Trimethylbenzene	6.5	U	6.5
108-86-1	Bromobenzene	6.5	U	6.5
108-87-2	Methylcyclohexane	6.5	U	6.5
108-88-3	Toluene	6.5	U	6.5
108-90-7	Chlorobenzene	6.5	U	6.5
109-99-9	Tetrahydrofuran	26	U	26
110-54-3	Hexane	6.5	U	6.5
110-82-7	Cyclohexane	6.5	U	6.5
120-82-1	1,2,4-Trichlorobenzene	6.5	U	6.5
124-48-1	Chlorodibromomethane	6.5	U	6.5
127-18-4	Tetrachloroethene	6.5	U	6.5
135-98-8	sec-Butylbenzene	6.5	U	6.5
142-28-9	1,3-Dichloropropane	6.5	U	6.5
156-59-2	cis-1,2-Dichloroethene	3.2	U	3.2
156-60-5	trans-1,2-Dichloroethene	3.2	U	3.2
1634-04-4	Methyl tert-butyl ether	26	U	26
179601-23-1	m-Xylene & p-Xylene	3.2	U	3.2
541-73-1	1,3-Dichlorobenzene	6.5	U	6.5
56-23-5	Carbon tetrachloride	6.5	U	6.5
563-58-6	1,1-Dichloropropene	6.5	U	6.5
591-78-6	2-Hexanone	26	U	26

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-35-04032024 | Lab Sample ID: 280-189645-11

Matrix: Solid | Lab File ID: MS12_044238.D

Analysis Method: 8260D | Date Collected: 04/03/2024 13:20

Sample wt/vol: 4.674(g) | Date Analyzed: 04/14/2024 19:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 17.1 % Solids: 82.9 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	6.5	U	6.5
60-29-7	Ethyl ether	13	U	13
630-20-6	1,1,1,2-Tetrachloroethane	6.5	U	6.5
67-64-1	Acetone	100	U	100
67-66-3	Chloroform	13	U	13
71-43-2	Benzene	6.5	U	6.5
71-55-6	1,1,1-Trichloroethane	6.5	U	6.5
74-83-9	Bromomethane	13	U	13
74-87-3	Chloromethane	13	U	13
74-88-4	Iodomethane	6.5	U	6.5
74-95-3	Dibromomethane	6.5	U	6.5
74-97-5	Chlorobromomethane	6.5	U	6.5
75-00-3	Chloroethane	13	U	13
75-01-4	Vinyl chloride	6.5	U	6.5
75-09-2	Methylene Chloride	6.5	U	6.5
75-15-0	Carbon disulfide	6.5	U	6.5
75-25-2	Bromoform	6.5	U	6.5
75-27-4	Dichlorobromomethane	6.5	U	6.5
75-34-3	1,1-Dichloroethane	6.5	U	6.5
75-35-4	1,1-Dichloroethene	6.5	U	6.5
75-69-4	Trichlorofluoromethane	13	U	13
75-71-8	Dichlorodifluoromethane	13	U	13
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26	U	26
78-87-5	1,2-Dichloropropane	6.5	U	6.5
78-93-3	2-Butanone (MEK)	26	U	26
79-00-5	1,1,2-Trichloroethane	6.5	U	6.5
79-01-6	Trichloroethene	6.5	U	6.5
79-20-9	Methyl acetate	13	U	13
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U	6.5
87-61-6	1,2,3-Trichlorobenzene	6.5	U	6.5
87-68-3	Hexachlorobutadiene	6.5	U	6.5
91-20-3	Naphthalene	6.5	U	6.5
95-47-6	o-Xylene	3.2	J	3.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-35-04032024 | Lab Sample ID: 280-189645-11

Matrix: Solid | Lab File ID: MS12_044238.D

Analysis Method: 8260D | Date Collected: 04/03/2024 13:20

Sample wt/vol: 4.674(g) | Date Analyzed: 04/14/2024 19:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 17.1 % Solids: 82.9 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	6.5	U	6.5
95-50-1	1,2-Dichlorobenzene	6.5	U	6.5
95-63-6	1,2,4-Trimethylbenzene	6.5	U	6.5
96-12-8	1,2-Dibromo-3-Chloropropane	13	U	13
96-18-4	1,2,3-Trichloropropane	6.5	U	6.5
97-63-2	Ethyl methacrylate	6.5	U	6.5
98-06-6	tert-Butylbenzene	6.5	U	6.5
98-82-8	Isopropylbenzene	6.5	U	6.5
99-87-6	4-Isopropyltoluene	6.5	U	6.5
1330-20-7	Xylenes, Total	6.5	U	6.5
540-59-0	1,2-Dichloroethene, Total	6.5	U	6.5
542-75-6	1,3-Dichloropropene, Total	6.5	U	6.5
STL00209	Trihalomethanes, Total	13	U	13
STL00431	Total BTEX	6.5	U	6.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		58-140
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	103		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1
SDG No.:
Client Sample ID: POST-SO-SB4-40-04032024 | Lab Sample ID: 280-189645-12
Matrix: Solid | Lab File ID: MS12_044239.D
Analysis Method: 8260D | Date Collected: 04/03/2024 13:25
Sample wt/vol: 4.690(g) | Date Analyzed: 04/14/2024 20:14
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 14.1 % Solids: 85.9 | Level: (low/med) Low
Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	6.2	U	6.2
100-42-5	Styrene	6.2	U	6.2
10061-01-5	cis-1,3-Dichloropropene	6.2	U	6.2
10061-02-6	trans-1,3-Dichloropropene	6.2	U	6.2
103-65-1	N-Propylbenzene	6.2	U	6.2
104-51-8	n-Butylbenzene	6.2	U	6.2
106-43-4	4-Chlorotoluene	6.2	U	6.2
106-46-7	1,4-Dichlorobenzene	6.2	U	6.2
106-93-4	Ethylene Dibromide	6.2	U	6.2
107-05-1	3-Chloro-1-propene	12	U	12
107-06-2	1,2-Dichloroethane	6.2	U	6.2
108-05-4	Vinyl acetate	12	U	12
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25
108-67-8	1,3,5-Trimethylbenzene	6.2	U	6.2
108-86-1	Bromobenzene	6.2	U	6.2
108-87-2	Methylcyclohexane	6.2	U	6.2
108-88-3	Toluene	6.2	U	6.2
108-90-7	Chlorobenzene	6.2	U	6.2
109-99-9	Tetrahydrofuran	25	U	25
110-54-3	Hexane	6.2	U	6.2
110-82-7	Cyclohexane	6.2	U	6.2
120-82-1	1,2,4-Trichlorobenzene	6.2	U	6.2
124-48-1	Chlorodibromomethane	6.2	U	6.2
127-18-4	Tetrachloroethene	27		6.2
135-98-8	sec-Butylbenzene	6.2	U	6.2
142-28-9	1,3-Dichloropropane	6.2	U	6.2
156-59-2	cis-1,2-Dichloroethene	3.1	U	3.1
156-60-5	trans-1,2-Dichloroethene	3.1	U	3.1
1634-04-4	Methyl tert-butyl ether	25	U	25
179601-23-1	m-Xylene & p-Xylene	3.1	U	3.1
541-73-1	1,3-Dichlorobenzene	6.2	U	6.2
56-23-5	Carbon tetrachloride	6.2	U	6.2
563-58-6	1,1-Dichloropropene	6.2	U	6.2
591-78-6	2-Hexanone	25	U	25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-40-04032024 | Lab Sample ID: 280-189645-12

Matrix: Solid | Lab File ID: MS12_044239.D

Analysis Method: 8260D | Date Collected: 04/03/2024 13:25

Sample wt/vol: 4.690(g) | Date Analyzed: 04/14/2024 20:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.1 % Solids: 85.9 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	6.2	U	6.2
60-29-7	Ethyl ether	12	U	12
630-20-6	1,1,1,2-Tetrachloroethane	6.2	U	6.2
67-64-1	Acetone	99	U	99
67-66-3	Chloroform	12	U	12
71-43-2	Benzene	6.2	U	6.2
71-55-6	1,1,1-Trichloroethane	6.2	U	6.2
74-83-9	Bromomethane	12	U	12
74-87-3	Chloromethane	12	U	12
74-88-4	Iodomethane	6.2	U	6.2
74-95-3	Dibromomethane	6.2	U	6.2
74-97-5	Chlorobromomethane	6.2	U	6.2
75-00-3	Chloroethane	12	U	12
75-01-4	Vinyl chloride	6.2	U	6.2
75-09-2	Methylene Chloride	6.2	U	6.2
75-15-0	Carbon disulfide	6.2	U	6.2
75-25-2	Bromoform	6.2	U	6.2
75-27-4	Dichlorobromomethane	6.2	U	6.2
75-34-3	1,1-Dichloroethane	6.2	U	6.2
75-35-4	1,1-Dichloroethene	6.2	U	6.2
75-69-4	Trichlorofluoromethane	12	U	12
75-71-8	Dichlorodifluoromethane	12	U	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25	U	25
78-87-5	1,2-Dichloropropane	6.2	U	6.2
78-93-3	2-Butanone (MEK)	25	U	25
79-00-5	1,1,2-Trichloroethane	6.2	U	6.2
79-01-6	Trichloroethene	6.2	U	6.2
79-20-9	Methyl acetate	12	U	12
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U	6.2
87-61-6	1,2,3-Trichlorobenzene	6.2	U	6.2
87-68-3	Hexachlorobutadiene	6.2	U	6.2
91-20-3	Naphthalene	6.2	U	6.2
95-47-6	o-Xylene	3.1	U	3.1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1
SDG No.:
Client Sample ID: POST-SO-SB4-40-04032024 | Lab Sample ID: 280-189645-12
Matrix: Solid | Lab File ID: MS12_044239.D
Analysis Method: 8260D | Date Collected: 04/03/2024 13:25
Sample wt/vol: 4.690(g) | Date Analyzed: 04/14/2024 20:14
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 14.1 % Solids: 85.9 | Level: (low/med) Low
Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	6.2	U	6.2
95-50-1	1,2-Dichlorobenzene	6.2	U	6.2
95-63-6	1,2,4-Trimethylbenzene	6.2	U	6.2
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12
96-18-4	1,2,3-Trichloropropane	6.2	U	6.2
97-63-2	Ethyl methacrylate	6.2	U	6.2
98-06-6	tert-Butylbenzene	6.2	U	6.2
98-82-8	Isopropylbenzene	6.2	U	6.2
99-87-6	4-Isopropyltoluene	6.2	U	6.2
1330-20-7	Xylenes, Total	6.2	U	6.2
540-59-0	1,2-Dichloroethene, Total	6.2	U	6.2
542-75-6	1,3-Dichloropropene, Total	6.2	U	6.2
STL00309	Trihalomethanes, Total	12	U	12
STL00431	Total BTEX	6.2	U	6.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		58-140
1868-53-7	Dibromofluoromethane (Surr)	90		75-121
2037-26-5	Toluene-d8 (Surr)	97		80-126
460-00-4	4-Bromofluorobenzene (Surr)	104		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-45-04032024 Lab Sample ID: 280-189645-13

Matrix: Solid Lab File ID: MS12_044240.D

Analysis Method: 8260D Date Collected: 04/03/2024 13:30

Sample wt/vol: 4.557(g) Date Analyzed: 04/14/2024 20:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 15.7 % Solids: 84.3 Level: (low/med) Low

Analysis Batch No.: 649463 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	6.5	U	6.5
100-42-5	Styrene	6.5	U	6.5
10061-01-5	cis-1,3-Dichloropropene	6.5	U	6.5
10061-02-6	trans-1,3-Dichloropropene	6.5	U	6.5
103-65-1	N-Propylbenzene	6.5	U	6.5
104-51-8	n-Butylbenzene	6.5	U	6.5
106-43-4	4-Chlorotoluene	6.5	U	6.5
106-46-7	1,4-Dichlorobenzene	6.5	U	6.5
106-93-4	Ethylene Dibromide	6.5	U	6.5
107-05-1	3-Chloro-1-propene	13	U	13
107-06-2	1,2-Dichloroethane	6.5	U	6.5
108-05-4	Vinyl acetate	13	U	13
108-10-1	4-Methyl-2-pentanone (MIBK)	26	U	26
108-67-8	1,3,5-Trimethylbenzene	6.5	U	6.5
108-86-1	Bromobenzene	6.5	U	6.5
108-87-2	Methylcyclohexane	6.5	U	6.5
108-88-3	Toluene	6.5	U	6.5
108-90-7	Chlorobenzene	6.5	U	6.5
109-99-9	Tetrahydrofuran	26	U	26
110-54-3	Hexane	6.5	U	6.5
110-82-7	Cyclohexane	6.5	U	6.5
120-82-1	1,2,4-Trichlorobenzene	6.5	U	6.5
124-48-1	Chlorodibromomethane	6.5	U	6.5
127-18-4	Tetrachloroethene	6.5	U	6.5
135-98-8	sec-Butylbenzene	6.5	U	6.5
142-28-9	1,3-Dichloropropane	6.5	U	6.5
156-59-2	cis-1,2-Dichloroethene	3.3	U	3.3
156-60-5	trans-1,2-Dichloroethene	3.3	U	3.3
1634-04-4	Methyl tert-butyl ether	26	U	26
179601-23-1	m-Xylene & p-Xylene	3.3	U	3.3
541-73-1	1,3-Dichlorobenzene	6.5	U	6.5
56-23-5	Carbon tetrachloride	6.5	U	6.5
563-58-6	1,1-Dichloropropene	6.5	U	6.5
591-78-6	2-Hexanone	26	U	26

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-45-04032024 | Lab Sample ID: 280-189645-13

Matrix: Solid | Lab File ID: MS12_044240.D

Analysis Method: 8260D | Date Collected: 04/03/2024 13:30

Sample wt/vol: 4.557(g) | Date Analyzed: 04/14/2024 20:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 15.7 % Solids: 84.3 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	6.5	U	6.5
60-29-7	Ethyl ether	13	U	13
630-20-6	1,1,1,2-Tetrachloroethane	6.5	U	6.5
67-64-1	Acetone	100	U	100
67-66-3	Chloroform	13	U	13
71-43-2	Benzene	6.5	U	6.5
71-55-6	1,1,1-Trichloroethane	6.5	U	6.5
74-83-9	Bromomethane	13	U	13
74-87-3	Chloromethane	13	U	13
74-88-4	Iodomethane	6.5	U	6.5
74-95-3	Dibromomethane	6.5	U	6.5
74-97-5	Chlorobromomethane	6.5	U	6.5
75-00-3	Chloroethane	13	U	13
75-01-4	Vinyl chloride	6.5	U	6.5
75-09-2	Methylene Chloride	6.5	U	6.5
75-15-0	Carbon disulfide	6.5	U	6.5
75-25-2	Bromoform	6.5	U	6.5
75-27-4	Dichlorobromomethane	6.5	U	6.5
75-34-3	1,1-Dichloroethane	6.5	U	6.5
75-35-4	1,1-Dichloroethene	6.5	U	6.5
75-69-4	Trichlorofluoromethane	13	U	13
75-71-8	Dichlorodifluoromethane	13	U	13
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26	U	26
78-87-5	1,2-Dichloropropane	6.5	U	6.5
78-93-3	2-Butanone (MEK)	26	U	26
79-00-5	1,1,2-Trichloroethane	6.5	U	6.5
79-01-6	Trichloroethene	6.5	U	6.5
79-20-9	Methyl acetate	13	U	13
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U	6.5
87-61-6	1,2,3-Trichlorobenzene	6.5	U	6.5
87-68-3	Hexachlorobutadiene	6.5	U	6.5
91-20-3	Naphthalene	8.6	U	8.6
95-47-6	o-Xylene	3.3	U	3.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1
SDG No.:
Client Sample ID: POST-SO-SB4-45-04032024 | Lab Sample ID: 280-189645-13
Matrix: Solid | Lab File ID: MS12_044240.D
Analysis Method: 8260D | Date Collected: 04/03/2024 13:30
Sample wt/vol: 4.557(g) | Date Analyzed: 04/14/2024 20:33
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 15.7 % Solids. 84.3 | Level: (low/med) Low
Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	6.5	U	6.5
95-50-1	1,2-Dichlorobenzene	6.5	U	6.5
95-63-6	1,2,4-Trimethylbenzene	6.5	U	6.5
96-12-8	1,2-Dibromo-3-Chloropropane	13	U	13
96-18-4	1,2,3-Trichloropropane	6.5	U	6.5
97-63-2	Ethyl methacrylate	6.5	U	6.5
98-06-6	tert-Butylbenzene	6.5	U	6.5
98-82-8	Isopropylbenzene	6.5	U	6.5
99-87-6	4-Isopropyltoluene	6.5	U	6.5
1330-20-7	Xylenes, Total	6.5	U	6.5
540-59-0	1,2-Dichloroethene, Total	6.5	U	6.5
542-75-6	1,3-Dichloropropene, Total	6.5	U	6.5
STL00209	Trihalomethanes, Total	13	U	13
STL00431	Total BTEX	6.5	U	6.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		58-140
1868-53-7	Dibromofluoromethane (Surr)	96		75-121
2037-26-5	Toluene-d8 (Surr)	100		80-126
460-00-4	4-Bromofluorobenzene (Surr)	106		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1
SDG No.:
Client Sample ID: POST-SO-SB4-50-04032024 | Lab Sample ID: 280-189645-14
Matrix: Solid | Lab File ID: MS12_044316.D
Analysis Method: 8260D | Date Collected: 04/03/2024 13:55
Sample wt/vol: 4.140(g) | Date Analyzed: 04/16/2024 13:23
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 14.9 % Solids: 85.1 | Level: (low/med) Low
Analysis Batch No.: 649668 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	7.1	U	7.1
100-42-5	Styrene	7.1	U	7.1
10061-01-5	cis-1,3-Dichloropropene	7.1	U	7.1
10061-02-6	trans-1,3-Dichloropropene	7.1	U	7.1
103-65-1	N-Propylbenzene	7.1	U	7.1
104-51-8	n-Butylbenzene	7.1	U	7.1
106-43-4	4-Chlorotoluene	7.1	U	7.1
106-46-7	1,4-Dichlorobenzene	7.1	U	7.1
106-93-4	Ethylene Dibromide	7.1	U	7.1
107-05-1	3-Chloro-1-propene	14	U	14
107-06-2	1,2-Dichloroethane	7.1	U	7.1
108-05-4	Vinyl acetate	14	U	14
108-10-1	4-Methyl-2-pentanone (MIBK)	28	U	28
108-67-8	1,3,5-Trimethylbenzene	7.1	U	7.1
108-86-1	Bromobenzene	7.1	U	7.1
108-87-2	Methylcyclohexane	7.1	U	7.1
108-88-3	Toluene	7.1	U	7.1
108-90-7	Chlorobenzene	7.1	U	7.1
109-99-9	Tetrahydrofuran	28	U	28
110-54-3	Hexane	7.1	U	7.1
110-82-7	Cyclohexane	7.1	U	7.1
120-82-1	1,2,4-Trichlorobenzene	7.1	U	7.1
124-48-1	Chlorodibromomethane	7.1	U	7.1
127-18-4	Tetrachloroethene	7.1	U	7.1
135-98-8	sec-Butylbenzene	7.1	U	7.1
142-28-9	1,3-Dichloropropane	7.1	U	7.1
156-59-2	cis-1,2-Dichloroethene	3.5	U	3.5
156-60-5	trans-1,2-Dichloroethene	3.5	U	3.5
1634-04-4	Methyl tert-butyl ether	28	U	28
179601-23-1	m-Xylene & p-Xylene	3.5	U	3.5
541-73-1	1,3-Dichlorobenzene	7.1	U	7.1
56-23-5	Carbon tetrachloride	7.1	U	7.1
563-58-6	1,1-Dichloropropene	7.1	U	7.1
591-78-6	2-Hexanone	28	U	28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: POST-SO-SB4-50-04032024 | Lab Sample ID: 280-189645-14

Matrix: Solid | Lab File ID: MS12_044316.D

Analysis Method: 8260D | Date Collected: 04/03/2024 13:55

Sample wt/vol: 4.140(g) | Date Analyzed: 04/16/2024 13:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.9 % Solids: 85.1 | Level: (low/med) Low

Analysis Batch No.: 649668 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	7.1	U	7.1
60-29-7	Ethyl ether	14	U	14
630-20-6	1,1,1,2-Tetrachloroethane	7.1	U	7.1
67-64-1	Acetone	110	U	110
67-66-3	Chloroform	14	U	14
71-43-2	Benzene	7.1	U	7.1
71-55-6	1,1,1-Trichloroethane	7.1	U	7.1
74-83-9	Bromomethane	14	U	14
74-87-3	Chloromethane	14	U	14
74-88-4	Iodomethane	7.1	U	7.1
74-95-3	Dibromomethane	7.1	U	7.1
74-97-5	Chlorobromomethane	7.1	U	7.1
75-00-3	Chloroethane	14	U	14
75-01-4	Vinyl chloride	7.1	U	7.1
75-09-2	Methylene Chloride	7.1	U	7.1
75-15-0	Carbon disulfide	7.1	U	7.1
75-25-2	Bromoform	7.1	U	7.1
75-27-4	Dichlorobromomethane	7.1	U	7.1
75-34-3	1,1-Dichloroethane	7.1	U	7.1
75-35-4	1,1-Dichloroethene	7.1	U	7.1
75-69-4	Trichlorofluoromethane	14	U	14
75-71-8	Dichlorodifluoromethane	14	U	14
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	28	U	28
78-87-5	1,2-Dichloropropane	7.1	U	7.1
78-93-3	2-Butanone (MEK)	28	U	28
79-00-5	1,1,2-Trichloroethane	7.1	U	7.1
79-01-6	Trichloroethene	7.1	U	7.1
79-20-9	Methyl acetate	14	U	14
79-34-5	1,1,2,2-Tetrachloroethane	7.1	U	7.1
87-61-6	1,2,3-Trichlorobenzene	7.1	U	7.1
87-68-3	Hexachlorobutadiene	7.1	U	7.1
91-20-3	Naphthalene	9.4	U	9.4
95-47-6	o-Xylene	3.5	U	3.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1
SDG No.:
Client Sample ID: POST-SO-SB4-50-04032024 | Lab Sample ID: 280-189645-14
Matrix: Solid | Lab File ID: MS12_044316.D
Analysis Method: 8260D | Date Collected: 04/03/2024 13:55
Sample wt/vol: 4.140(g) | Date Analyzed: 04/16/2024 13:23
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 14.9 % Solids: 85.1 | Level: (low/med) Low
Analysis Batch No.: 649668 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	7.1	U	7.1
95-50-1	1,2-Dichlorobenzene	7.1	U	7.1
95-63-6	1,2,4-Trimethylbenzene	7.1	U	7.1
96-12-8	1,2-Dibromo-3-Chloropropane	14	U	14
96-18-4	1,2,3-Trichloropropane	7.1	U	7.1
97-63-2	Ethyl methacrylate	7.1	U	7.1
98-06-6	tert-Butylbenzene	7.1	U	7.1
98-82-8	Isopropylbenzene	7.1	U	7.1
99-87-6	4-Isopropyltoluene	7.1	U	7.1
1330-20-7	Xylenes, Total	7.1	U	7.1
540-59-0	1,2-Dichloroethene, Total	7.1	U	7.1
542-75-6	1,3-Dichloropropene, Total	7.1	U	7.1
STL00209	Trihalomethanes, Total	14	U	14
STL00431	Total BTEX	7.1	U	7.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		58-140
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	105		76-127

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: DUP-SO-1-04032024 | Lab Sample ID: 280-189645-15

Matrix: Solid | Lab File ID: MS12_044242.D

Analysis Method: 8260D | Date Collected: 04/03/2024 12:00

Sample wt/vol: 5.075(g) | Date Analyzed: 04/14/2024 21:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 16.8 % Solids: 83.2 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.9	U	5.9
100-42-5	Styrene	5.9	U	5.9
10061-01-5	cis-1,3-Dichloropropene	5.9	U	5.9
10061-02-6	trans-1,3-Dichloropropene	5.9	U	5.9
103-65-1	N-Propylbenzene	5.9	U	5.9
104-51-8	n-Butylbenzene	5.9	U	5.9
106-43-4	4-Chlorotoluene	5.9	U	5.9
106-46-7	1,4-Dichlorobenzene	5.9	U	5.9
106-93-4	Ethylene Dibromide	5.9	U	5.9
107-05-1	3-Chloro-1-propene	12	U	12
107-06-2	1,2-Dichloroethane	5.9	U	5.9
[illegible]	Vinyl acetate	[illegible]	[illegible]	[illegible]
108-10-1	4-Methyl-2-pentanone (MIBK)	24	U	24
108-67-8	1,3,5-Trimethylbenzene	5.9	U	5.9
108-86-1	Bromobenzene	5.9	U	5.9
108-87-2	Methylcyclohexane	5.9	U	5.9
108-88-3	Toluene	5.9	U	5.9
108-90-7	Chlorobenzene	5.9	U	5.9
109-99-9	Tetrahydrofuran	24	U	24
110-54-3	Hexane	5.9	U	5.9
110-82-7	Cyclohexane	5.9	U	5.9
120-82-1	1,2,4-Trichlorobenzene	5.9	U	5.9
124-48-1	Chlorodibromomethane	5.9	U	5.9
127-18-4	Tetrachloroethene	5.9	U	5.9
135-98-8	sec-Butylbenzene	5.9	U	5.9
142-28-9	1,3-Dichloropropane	5.9	U	5.9
156-59-2	cis-1,2-Dichloroethene	3.0	U	3.0
156-60-5	trans-1,2-Dichloroethene	3.0	U	3.0
1634-04-4	Methyl tert-butyl ether	24	U	24
179601-23-1	m-Xylene & p-Xylene	3.0	U	3.0
541-73-1	1,3-Dichlorobenzene	5.9	U	5.9
56-23-5	Carbon tetrachloride	5.9	U	5.9
563-58-6	1,1-Dichloropropene	5.9	U	5.9
591-78-6	2-Hexanone	24	U	24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: DUP-SO-1-04032024 | Lab Sample ID: 280-189645-15

Matrix: Solid | Lab File ID: MS12_044242.D

Analysis Method: 8260D | Date Collected: 04/03/2024 12:00

Sample wt/vol: 5.075(g) | Date Analyzed: 04/14/2024 21:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 16.8 % Solids: 83.2 | Level: (low/med) Low

Analysis Batch No.: 649463 | Units: ug/Kg

CAS NO	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.9	U	5.9
60-29-7	Ethyl ether	12	U	12
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U	5.9
67-64-1	Acetone	110		95
67-66-3	Chloroform	12	U	12
71-43-2	Benzene	5.9	U	5.9
71-55-6	1,1,1-Trichloroethane	5.9	U	5.9
74-83-9	Bromomethane	12	U	12
74-87-3	Chloromethane	12	U	12
74-88-4	Iodomethane	5.9	U	5.9
74-95-3	Dibromomethane	5.9	U	5.9
74-97-5	Chlorobromomethane	5.9	U	5.9
75-00-3	Chloroethane	12	U	12
75-01-4	Vinyl chloride	5.9	U	5.9
75-09-2	Methylene Chloride	5.9	U	5.9
75-15-0	Carbon disulfide	5.9	U	5.9
75-25-2	Bromoform	5.9	U	5.9
75-27-4	Dichlorobromomethane	5.9	U	5.9
75-34-3	1,1-Dichloroethane	5.9	U	5.9
75-35-4	1,1-Dichloroethene	5.9	U	5.9
75-69-4	Trichlorofluoromethane	12	U	12
75-71-8	Dichlorodifluoromethane	12	U	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	24
78-87-5	1,2-Dichloropropane	5.9	U	5.9
78-93-3	2-Butanone (MEK)	24	U	24
79-00-5	1,1,2-Trichloroethane	5.9	U	5.9
79-01-6	Trichloroethene	5.9	U	5.9
79-20-9	Methyl acetate	12	U	12
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U	5.9
87-61-6	1,2,3-Trichlorobenzene	5.9	U	5.9
87-68-3	Hexachlorobutadiene	5.9	U	5.9
91-20-3	Naphthalene	7.8	U	7.8
95-47-6	o-Xylene	3.0	U	3.0

AT

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver
Job No.: 280-189645-1

SDG No.:

Client Sample ID: DUP-SO-1-04032024
Lab Sample ID: 280-189645-15

Matrix: Solid
Lab File ID: MS12_044242.D

Analysis Method: 8260D
Date Collected: 04/03/2024 12:00

Sample wt/vol: 5.075(g)
Date Analyzed: 04/14/2024 21:13

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) Y pH:

% Moisture: 16.8 % Solids: 83.2
Level: (low/med) Low

Analysis Batch No.: 649463
Units: ug/Kg

CAS NO	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	[illegible]	U	5.9
95-50-1	1,2-Dichlorobenzene	5.9	U	5.9
95-63-6	1,2,4-Trimethylbenzene	5.9	U	5.9
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12
96-18-4	1,2,3-Trichloropropane	5.9	U	5.9
97-63-2	Ethyl methacrylate	5.9	U	5.9
98-06-6	tert-Butylbenzene	5.9	U	5.9
98-82-8	Isopropylbenzene	5.9	U	5.9
99-87-6	4-Isopropyltoluene	5.9	U	5.9
1330-20-7	Xylenes, Total	5.9	U	5.9
540-59-0	1,2-Dichloroethene, Total	5.9	U	5.9
542-75-6	1,3-Dichloropropene, Total	5.9	U	5.9
STL00209	Trihalomethanes, Total	12	U	12
STL00431	Total BTEX	5.9	U	5.9

LOT

HT

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		58-[illegible]
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
2037-26-5	Toluene-d8 (Surr)	98		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 280-189645-16

Matrix: Water | Lab File ID: P6995.D

Analysis Method: 8260D | Date Collected: 04/02/2024 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/05/2024 21:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 4.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 648518 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	20
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0	U	2.0
110-82-7	Cyclohexane	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	1.0	U	1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 280-189645-16

Matrix: Water | Lab File ID: P6995.D

Analysis Method: 8260D | Date Collected: 04/02/2024 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/05/2024 21:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 4.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 648518 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
591-78-6	2-Hexanone	5.0	U	5.0
594-20-7	2,2-Dichloropropane	1.0	U	1.0
60-29-7	Ethyl ether	2.0	U	2.0
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0
67-64-1	Acetone	15	U	15
67-66-3	Chloroform	1.0	U	1.0
71-43-2	Benzene	1.0	U	1.0
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
74-83-9	Bromomethane	5.0	U	5.0
74-87-3	Chloromethane	2.0	U	2.0
74-88-4	Iodomethane	5.0	U	5.0
74-95-3	Dibromomethane	1.0	U	1.0
74-97-5	Chlorobromomethane	1.0	U	1.0
75-00-3	Chloroethane	4.0	U	4.0
75-01-4	Vinyl chloride	2.0	U	2.0
75-09-2	Methylene Chloride	5.0	U	5.0
75-15-0	Carbon disulfide	2.0	U	2.0
75-25-2	Bromoform	2.0	U	2.0
75-27-4	Dichlorobromomethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
75-69-4	Trichlorofluoromethane	2.0	U	2.0
75-71-8	Dichlorodifluoromethane	3.0	U	3.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
78-93-3	2-Butanone (MEK)	15	U	15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
79-01-6	Trichloroethene	1.0	U	1.0
79-20-9	Methyl acetate	5.0	U	5.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0
87-68-3	Hexachlorobutadiene	2.0	U	2.0
91-20-3	Naphthalene	2.0	U	2.0

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189645-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 280-189645-16

Matrix: Water | Lab File ID: P6995.D

Analysis Method: 8260D | Date Collected: 04/02/2024 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/05/2024 21:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 4.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 648518 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	1.0	U	1.0
95-49-8	2-Chlorotoluene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5
97-63-2	Ethyl methacrylate	3.0	U	3.0
98-06-6	tert-Butylbenzene	1.0	U	1.0
98-82-8	Isopropylbenzene	1.0	U	1.0
99-87-6	4-Isopropyltoluene	1.0	U	1.0
1330-20-7	Xylenes, Total	1.0	U	1.0
540-59-0	1,2-Dichloroethene, Total	1.0	U	1.0
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0
STL00209	Trihalomethanes, Total	1.0	U	1.0
STL00431	Total BTEX	1.0	U	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-127
1868-53-7	Dibromofluoromethane (Surr)	96		77-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
460-00-4	4-Bromofluorobenzene (Surr)	100		78-120

MF 4/18/24

ENVIRONMENTAL
Data Services, Inc.

DATA VALIDATION SUMMARY REPORT
ABC CLEANERS, NORTH CAROLINA

Client: EA Engineering, Science & Technology, Inc., Hunt Valley, Maryland
SDG: 280-189690-1
Laboratory: Eurofins, Denver, Colorado
Site: ABC Cleaners, North Carolina
Date: June 18, 2024

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	POST-SO-SB5-05-04032024	280-189690-1	Soil
2	POST-SO-SB5-10-04032024	280-189690-2	Soil
3	POST-SO-SB5-15-04032024	280-189690-3	Soil
4	POST-SO-SB5-20-04032024	280-189690-4	Soil
5*	POST-SO-SB5-25-04032024	280-189690-5	Soil
6	DUP-SO-2-04032024	280-189690-6	Soil
7	POST-SO-SB2-05-04042024	280-189690-7	Soil
8	POST-SO-SB2-10-04042024	280-189690-8	Soil
9	POST-SO-SB2-15-04042024	280-189690-9	Soil
10	POST-SO-SB2-20-04042024	280-189690-10	Soil
11	POST-SO-SB2-25-04042024	280-189690-11	Soil
12	POST-SO-SB2-30-04042024	280-189690-12	Soil
13	DUP-SO-1-04042024	280-189690-13	Soil
14	POST-SO-SB1-05-04042024	280-189690-14	Soil
15*	POST-SO-SB1-10-04042024	280-189690-15	Soil
15MS	POST-SO-SB1-10-04042024MS	280-189690-15MS	Soil
15MSD	POST-SO-SB1-10-04042024MSD	280-189690-15MSD	Soil
16	POST-SO-SB1-15-04042024	280-189690-16	Soil
17	POST-SO-SB1-20-04042024	280-189690-17	Soil
18	POST-SO-SB3-05-04042024	280-189690-18	Soil
19	POST-SO-SB3-10-04042024	280-189690-19	Soil
20	POST-SO-SB3-15-04042024	280-189690-20	Soil
21	POST-SO-SB3-20-04042024	280-189690-21	Soil
22	POST-SO-SB3-25-04042024	280-189690-22	Soil
23*	POST-SO-SB3-30-04042024	280-189690-23	Soil
24	POST-SO-SB3-35-04042024	280-189690-24	Soil
25	POST-SO-SB3-40-04042024	280-189690-25	Soil
26	POST-SO-SB3-45-04042024	280-189690-26	Soil
27	POST-SO-SB3-50-04042024	280-189690-27	Soil
28	DUP-SO-2-04042024	280-189690-28	Soil
29	Trip Blank	280-189690-29	Water

*Stage 4 review

A Stage 2B/4 data validation was performed on the analytical data for twenty-eight soil samples and one aqueous trip blank samples collected on April 3-4, 2024 by EA Engineering at the ABC Cleaners site in North Carolina. The samples were analyzed under the Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions.

Specific method references are as follows:

Analysis	*Method References*
VOCs	SW846 Method 8260D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, the Sampling and Analysis Plan and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," November 2020;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Holding times and sample preservation
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no serious deficiencies of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Volatile Organic Compounds (VOC)

Holding Times

- All samples were analyzed within 14 days for preserved water and soil samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- All percent relative standard deviation (%RSD) and/or correlation coefficients and mean relative response factor (RRF) criteria were met.

Continuing Calibration

- All %D and RRF criteria were met except for the following.

CCAL Date	Compound	%D	Qualifier	Affected Samples
4/10/24 (2217)	Dichlorodifluoromethane	23.7%	UJ	29
	Bromomethane	27.8%		
	Iodomethane	29.7%		
	Hexane	26.7%		

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Trip Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values except for the following.

MS/MSD Sample	Compound	MS %R/MSD %R/RPD	Qualifier	Affected Sample
15	Neady All	Low %R	UJ	Entire Sample

Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)

- The LCS/LCSD samples exhibited acceptable percent recoveries (%R) and RPD values.

LCS ID	Compound	LCS %R/LCSD %R/RPD	Qualifier	Affected Samples
280-648495/3-A	Chloromethane	OK/OK/29%	None	RPD Only
	Bromoform	OK/76%/OK	UJ	1-7
280-649057/5	7 Compounds	OK/OK/High	None	RPD Only

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	POST-SO-SB5-05-04032024 ug/kg	DUP-SO-2-04032024 ug/kg	RPD	Qualifier
None	ND	ND	-	

Compound	POST-SO-SB2-05-04042024 ug/kg	DUP-SO-1-04042024 ug/kg	RPD	Qualifier
Acetone	140	220	44%	None <5X RL
2-Butanone	22U	30	NC	None

Compound	POST-SO-SB3-05-04042024 ug/kg	DUP-SO-2-04042024 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 6/21/24

Nancy Weaver

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Reason Code	Definition
HT	Holding Time
MB	Method Blank
SURR	Surrogate
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
CB/CCB	Calibration Blank or Continuing Calibration Blank
CCV	Calibration Verification
SD	ICP Serial Dilution
TB	Trip Blank
EB	Equipment Blank
FB	Field Blank
FD	Field Duplicate
CQ	Compound Quantitation
IS	Internal Standard

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB5-05-04032024 | Lab Sample ID: 280-189690-1

Matrix: Solid | Lab File ID: MS12_044317.D

Analysis Method: 8260D | Date Collected: 04/03/2024 17:20

Sample wt/vol: 5.208(g) | Date Analyzed: 04/16/2024 13:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 17.3 % Solids: 82.7 | Level: (low/med) Low

Analysis Batch No.: 649668 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.8	U	5.8
100-42-5	Styrene	5.8	U	5.8
10061-01-5	cis-1,3-Dichloropropene	5.8	U	5.8
10061-02-6	trans-1,3-Dichloropropene	5.8	U	5.8
103-65-1	N-Propylbenzene	5.8	U	5.8
104-51-8	n-Butylbenzene	5.8	U	5.8
106-43-4	4-Chlorotoluene	5.8	U	5.8
106-46-7	1,4-Dichlorobenzene	5.8	U	5.8
106-93-4	Ethylene Dibromide	5.8	U	5.8
107-05-1	3-Chloro-1-propene	12	U	12
107-06-2	1,2-Dichloroethane	5.8	U	5.8
108-05-4	Vinyl acetate	12	U	12
108-10-1	4-Methyl-2-pentanone (MIBK)	23	U	23
108-67-8	1,3,5-Trimethylbenzene	5.8	U	5.8
108-86-1	Bromobenzene	5.8	U	5.8
108-87-2	Methylcyclohexane	5.8	U	5.8
108-88-3	Toluene	5.8	U	5.8
108-90-7	Chlorobenzene	5.8	U	5.8
109-99-9	Tetrahydrofuran	23	U	23
110-54-3	Hexane	5.8	U	5.8
110-82-7	Cyclohexane	5.8	U	5.8
120-82-1	1,2,4-Trichlorobenzene	5.8	U	5.8
124-48-1	Chlorodibromomethane	5.8	U	5.8
127-18-4	Tetrachloroethene	5.8	U	5.8
135-98-8	sec-Butylbenzene	5.8	U	5.8
142-28-9	1,3-Dichloropropane	5.8	U	5.8
156-59-2	cis-1,2-Dichloroethene	2.9	U	2.9
156-60-5	trans-1,2-Dichloroethene	2.9	U	2.9
1634-04-4	Methyl tert-butyl ether	23	U	23
179601-23-1	m-Xylene & p-Xylene	2.9	U	2.9
541-73-1	1,3-Dichlorobenzene	5.8	U	5.8
56-23-5	Carbon tetrachloride	5.8	U	5.8
563-58-6	1,1-Dichloropropene	5.8	U	5.8
591-78-6	2-Hexanone	23	U	23

MT 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB5-05-04032024 | Lab Sample ID: 280-189690-1

Matrix: Solid | Lab File ID: MS12_044317.D

Analysis Method: 8260D | Date Collected: 04/03/2024 17:20

Sample wt/vol: 5.208(g) | Date Analyzed: 04/16/2024 13:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 17.3 % Solids: 82.7 | Level: (low/med) Low

Analysis Batch No.: 649668 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.8	U	5.8
60-29-7	Ethyl ether	12	U	12
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U	5.8
67-64-1	Acetone	93	U	93
67-66-3	Chloroform	12	U	12
71-43-2	Benzene	5.8	U	5.8
71-55-6	1,1,1-Trichloroethane	5.8	U	5.8
74-83-9	Bromomethane	12	U	12
74-87-3	Chloromethane	12	U	12
74-88-4	Iodomethane	5.8	U	5.8
74-95-3	Dibromomethane	5.8	U	5.8
74-97-5	Chlorobromomethane	5.8	U	5.8
75-00-3	Chloroethane	12	U	12
75-01-4	Vinyl chloride	5.8	U	5.8
75-09-2	Methylene Chloride	5.8	U	5.8
75-15-0	Carbon disulfide	5.8	U	5.8
75-25-2	Bromoform	5.8	U	5.8
75-27-4	Dichlorobromomethane	5.8	U	5.8
75-34-3	1,1-Dichloroethane	5.8	U	5.8
75-35-4	1,1-Dichloroethene	5.8	U	5.8
75-69-4	Trichlorofluoromethane	12	U	12
75-71-8	Dichlorodifluoromethane	12	U	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	23
78-87-5	1,2-Dichloropropane	5.8	U	5.8
78-93-3	2-Butanone (MEK)	23	U	23
79-00-5	1,1,2-Trichloroethane	5.8	U	5.8
79-01-6	Trichloroethene	5.8	U	5.8
79-20-9	Methyl acetate	12	U	12
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U	5.8
87-61-6	1,2,3-Trichlorobenzene	5.8	U	5.8
87-68-3	Hexachlorobutadiene	5.8	U	5.8
91-20-3	Naphthalene	7.7	U	7.7
95-47-6	o-Xylene	2.9	U	2.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB5-05-04032024 | Lab Sample ID: 280-189690-1

Matrix: Solid | Lab File ID: MS12_044317.D

Analysis Method: 8260D | Date Collected: 04/03/2024 17:20

Sample wt/vol: 5.208(g) | Date Analyzed: 04/16/2024 13:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 17.3 % Solids: 82.7 | Level: (low/med) Low

Analysis Batch No.: 649668 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.8	U	5.8
95-50-1	1,2-Dichlorobenzene	5.8	U	5.8
95-63-6	1,2,4-Trimethylbenzene	5.8	U	5.8
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12
96-18-4	1,2,3-Trichloropropane	5.8	U	5.8
97-63-2	Ethyl methacrylate	5.8	U	5.8
98-06-6	tert-Butylbenzene	5.8	U	5.8
98-82-8	Isopropylbenzene	5.8	U	5.8
99-87-6	4-Isopropyltoluene	5.8	U	5.8
1330-20-7	Xylenes, Total	5.8	U	5.8
540-59-0	1,2-Dichloroethene, Total	5.8	U	5.8
542-75-6	1,3-Dichloropropene, Total	5.8	U	5.8
STL00209	Trihalomethanes, Total	12	U	12
STL00431	Total BTEX	5.8	U	5.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		58-140
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	105		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB5-10-04032024 Lab Sample ID: 280-189690-2

Matrix: Solid Lab File ID: MS12_044318.D

Analysis Method: 8260D Date Collected: 04/03/2024 17:25

Sample wt/vol: 5.503(g) Date Analyzed: 04/16/2024 14:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 17.0 % Solids: 83.0 Level: (low/med) Low

Analysis Batch No.: 649668 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.5	U	5.5
100-42-5	Styrene	5.5	U	5.5
10061-01-5	cis-1,3-Dichloropropene	5.5	U	5.5
10061-02-6	trans-1,3-Dichloropropene	5.5	U	5.5
103-65-1	N-Propylbenzene	5.5	U	5.5
104-51-8	n-Butylbenzene	5.5	U	5.5
106-43-4	4-Chlorotoluene	5.5	U	5.5
106-46-7	1,4-Dichlorobenzene	5.5	U	5.5
106-93-4	Ethylene Dibromide	5.5	U	5.5
107-05-1	3-Chloro-1-propene	11	U	11
107-06-2	1,2-Dichloroethane	5.5	U	5.5
108-05-4	Vinyl acetate	11	U	11
108-10-1	4-Methyl-2-pentanone (MIBK)	22	U	22
108-67-8	1,3,5-Trimethylbenzene	5.5	U	5.5
108-86-1	Bromobenzene	5.5	U	5.5
108-87-2	Methylcyclohexane	5.5	U	5.5
108-88-3	Toluene	5.5	U	5.5
108-90-7	Chlorobenzene	5.5	U	5.5
109-99-9	Tetrahydrofuran	22	U	22
110-54-3	Hexane	5.5	U	5.5
110-82-7	Cyclohexane	5.5	U	5.5
120-82-1	1,2,4-Trichlorobenzene	5.5	U	5.5
124-48-1	Chlorodibromomethane	5.5	U	5.5
127-18-4	Tetrachloroethene	5.5	U	5.5
135-98-8	sec-Butylbenzene	5.5	U	5.5
142-28-9	1,3-Dichloropropane	5.5	U	5.5
156-59-2	cis-1,2-Dichloroethene	2.7	U	2.7
156-60-5	trans-1,2-Dichloroethene	2.7	U	2.7
1634-04-4	Methyl tert-butyl ether	22	U	22
179601-23-1	m-Xylene & p-Xylene	2.7	U	2.7
541-73-1	1,3-Dichlorobenzene	5.5	U	5.5
56-23-5	Carbon Tetrachloride	5.5	U	5.5
563-58-6	1,1-Dichloropropene	5.5	U	5.5
591-78-6	2-Hexanone	22	U	22

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB5-10-04032024 Lab Sample ID: 280-189690-2

Matrix: Solid Lab File ID: MS12_044318.D

Analysis Method: 8260D Date Collected: 04/03/2024 17:25

Sample wt/vol: 5.503(g) Date Analyzed: 04/16/2024 14:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 17.0 % Solids: 83.0 Level: (low/med) Low

Analysis Batch No.: 649668 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.5	U	5.5
60-29-7	Ethyl ether	11	U	11
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U	5.5
67-64-1	Acetone	88	U	88
67-66-3	Chloroform	11	U	11
71-43-2	Benzene	5.5	U	5.5
71-55-6	1,1,1-Trichloroethane	5.5	U	5.5
74-83-9	Bromomethane	11	U	11
74-87-3	Chloromethane	11	U	11
74-88-4	Iodomethane	5.5	U	5.5
74-95-3	Dibromomethane	5.5	U	5.5
74-97-5	Chlorobromomethane	5.5	U	5.5
75-00-3	Chloroethane	11	U	11
75-01-4	Vinyl chloride	5.5	U	5.5
75-09-2	Methylene Chloride	5.5	U	5.5
75-15-0	Carbon disulfide	5.5	U	5.5
75-25-2	Bromoform	5.5	U	5.5
75-27-4	Dichlorobromomethane	5.5	U	5.5
75-34-3	1,1-Dichloroethane	5.5	U	5.5
75-35-4	1,1-Dichloroethene	5.5	U	5.5
75-69-4	Trichlorofluoromethane	11	U	11
75-71-8	Dichlorodifluoromethane	11	U	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22
78-87-5	1,2-Dichloropropane	5.5	U	5.5
78-93-3	2-Butanone (MEK)	22	U	22
79-00-5	1,1,2-Trichloroethane	5.5	U	5.5
79-01-6	Trichloroethene	5.5	U	5.5
79-20-9	Methyl acetate	11	U	11
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U	5.5
87-61-6	1,2,3-Trichlorobenzene	5.5	U	5.5
87-68-3	Hexachlorobutadiene	5.5	U	5.5
91-20-3	Naphthalene	7.2	U	7.2
95-47-6	o-Xylene	2.7	U	2.7

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1
SDG No.:
Client Sample ID: POST-SO-SB5-10-04032024 | Lab Sample ID: 280-189690-2
Matrix: Solid | Lab File ID: MS12_044318.D
Analysis Method: 8260D | Date Collected: 04/03/2024 17:25
Sample wt/vol: 5.503(g) | Date Analyzed: 04/16/2024 14:02
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 17.0 % Solids: 83.0 | Level: (low/med) Low
Analysis Batch No.: 649668 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.5	U	5.5
95-50-1	1,2-Dichlorobenzene	5.5	U	5.5
95-63-6	1,2,4-Trimethylbenzene	5.5	U	5.5
96-12-8	1,2-Dibromo-3-Chloropropane	11	U	11
96-18-4	1,2,3-Trichloropropane	5.5	U	5.5
97-63-2	Ethyl methacrylate	5.5	U	5.5
98-06-6	tert-Butylbenzene	5.5	U	5.5
98-82-8	Isopropylbenzene	5.5	U	5.5
99-87-6	4-Isopropyltoluene	5.5	U	5.5
1330-20-7	Xylenes, Total	5.5	U	5.5
540-59-0	1,2-Dichloroethene, Total	5.5	U	5.5
542-75-6	1,3-Dichloropropene, Total	5.5	U	5.5
STL00209	Trihalomethanes, Total	11	U	11
STL00431	Total BTEX	5.5	U	5.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		58-140
1868-53-7	Dibromofluoromethane (Surr)	96		75-121
2037-26-5	Toluene-d8 (Surr)	98		80-126
460-00-4	4-Bromofluorobenzene (Surr)	105		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB5-15-04032024 | Lab Sample ID: 280-189690-3

Matrix: Solid | Lab File ID: MS12_044319.D

Analysis Method: 8260D | Date Collected: 04/03/2024 17:30

Sample wt/vol: 3.852(g) | Date Analyzed: 04/16/2024 14:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 17.1 % Solids: 82.9 | Level: (low/med) Low

Analysis Batch No.: 649668 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	7.8	U	7.8
100-42-5	Styrene	7.8	U	7.8
10061-01-5	cis-1,3-Dichloropropene	7.8	U	7.8
10061-02-6	trans-1,3-Dichloropropene	7.8	U	7.8
103-65-1	n-Propylbenzene	7.8	U	7.8
104-51-8	n-Butylbenzene	7.8	U	7.8
106-43-4	4-Chlorotoluene	7.8	U	7.8
106-46-7	1,4-Dichlorobenzene	7.8	U	7.8
106-93-4	Ethylene Dibromide	7.8	U	7.8
107-05-1	3-Chloro-1-propene	16	U	16
107-06-2	1,2-Dichloroethane	7.8	U	7.8
108-05-4	Vinyl acetate	16	U	16
108-10-1	4-Methyl-2-pentanone (MIBK)	31	U	31
108-67-8	1,3,5-Trimethylbenzene	7.8	U	7.8
108-86-1	Bromobenzene	7.8	U	7.8
108-87-2	Methylcyclohexane	7.8	U	7.8
108-88-3	Toluene	7.8	U	7.8
108-90-7	Chlorobenzene	7.8	U	7.8
109-99-9	Tetrahydrofuran	31	U	31
110-54-3	Hexane	7.8	U	7.8
110-82-7	Cyclohexane	7.8	U	7.8
120-82-1	1,2,4-Trichlorobenzene	7.8	U	7.8
124-48-1	Chlorodibromomethane	7.8	U	7.8
127-18-4	Tetrachloroethene	7.8	U	7.8
135-98-8	sec-Butylbenzene	7.8	U	7.8
142-28-9	1,3-Dichloropropane	7.8	U	7.8
156-59-2	cis-1,2-Dichloroethene	3.9	U	3.9
156-60-5	trans-1,2-Dichloroethene	3.9	U	3.9
1634-04-4	Methyl tert-butyl ether	31	U	31
179601-23-1	m-Xylene & p-Xylene	3.9	U	3.9
541-73-1	1,3-Dichlorobenzene	7.8	U	7.8
56-23-5	Carbon tetrachloride	7.8	U	7.8
563-58-6	1,1-Dichloropropene	7.8	U	7.8
591-78-6	2-Hexanone	31	U	31

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB5-15-04032024 Lab Sample ID: 280-189690-3

Matrix: Solid Lab File ID: MS12_044319.D

Analysis Method: 8260D Date Collected: 04/03/2024 17:30

Sample wt/vol: 3.852(g) Date Analyzed: 04/16/2024 14:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 17.1 % Solids: 82.9 Level: (low/med) Low

Analysis Batch No.: 649668 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	7.8	U	7.8
60-29-7	Ethyl ether	16	U	16
630-20-6	1,1,1,2-Tetrachloroethane	7.8	U	7.8
67-64-1	Acetone	130	U	130
67-66-3	Chloroform	16	U	16
71-43-2	Benzene	7.8	U	7.8
71-55-6	1,1,1-Trichloroethane	7.8	U	7.8
74-83-9	Bromomethane	16	U	16
74-87-3	Chloromethane	16	U	16
74-88-4	Iodomethane	7.8	U	7.8
74-95-3	Dibromomethane	7.8	U	7.8
74-97-5	Chlorobromomethane	7.8	U	7.8
75-00-3	Chloroethane	16	U	16
75-01-4	Vinyl chloride	7.8	U	7.8
75-09-2	Methylene Chloride	7.8	U	7.8
75-15-0	Carbon disulfide	7.8	U	7.8
75-25-2	Bromoform	7.8	U	7.8
75-27-4	Dichlorobromomethane	7.8	U	7.8
75-34-3	1,1-Dichloroethane	7.8	U	7.8
75-35-4	1,1-Dichloroethene	7.8	U	7.8
75-69-4	Trichlorofluoromethane	16	U	16
75-71-8	Dichlorodifluoromethane	16	U	16
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	31	U	31
78-87-5	1,2-Dichloropropane	7.8	U	7.8
78-93-3	2-Butanone (MEK)	31	U	31
79-00-5	1,1,2-Trichloroethane	7.8	U	7.8
79-01-6	Trichloroethene	7.8	U	7.8
79-20-9	Methyl acetate	16	U	16
79-34-5	1,1,2,2-Tetrachloroethane	7.8	U	7.8
87-61-6	1,2,3-Trichlorobenzene	7.8	U	7.8
87-68-3	Hexachlorobutadiene	7.8	U	7.8
91-20-3	Naphthalene	10	U	10
95-47-6	o-Xylene	3.9	U	3.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB5-15-04032024 Lab Sample ID: 280-189690-3

Matrix: Solid Lab File ID: MS12_044319.D

Analysis Method: 8260D Date Collected: 04/03/2024 17:30

Sample wt/vol: 3.852(g) Date Analyzed: 04/16/2024 14:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 17.1 % Solids: 82.9 Level: (low/med) Low

Analysis Batch No.: 649668 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	7.8	U	7.8
95-50-1	1,2-Dichlorobenzene	7.8	U	7.8
95-63-6	1,2,4-Trimethylbenzene	7.8	U	7.8
96-12-8	1,2-Dibromo-3-Chloropropane	16	U	16
96-18-4	1,2,3-Trichloropropane	7.8	U	7.8
97-63-2	Ethyl methacrylate	7.8	U	7.8
98-06-6	tert-Butylbenzene	7.8	U	7.8
98-82-8	Isopropylbenzene	7.8	U	7.8
99-87-6	4-Isopropyltoluene	7.8	U	7.8
1330-20-7	Xylenes, Total	7.8	U	7.8
540-59-0	1,2-Dichloroethene, Total	7.8	U	7.8
542-75-6	1,3-Dichloropropene, Total	7.8	U	7.8
STL00209	Trihalomethanes, Total	16	U	16
STL00431	Total BTEX	7.8	U	7.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		58-140
1868-53-7	Dibromofluoromethane (Surr)	96		75-121
2037-26-5	Toluene-d8 (Surr)	97		80-126
460-00-4	4-Bromofluorobenzene (Surr)	105		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1
SDG No.:
Client Sample ID: POST-SO-SB5-20-04032024 | Lab Sample ID: 280-189690-4
Matrix: Solid | Lab File ID: MS12_044320.D
Analysis Method: 8260D | Date Collected: 04/03/2024 17:35
Sample wt/vol: 4.663(g) | Date Analyzed: 04/16/2024 14:42
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 13.6 % Solids: 86.4 | Level: (low/med) Low
Analysis Batch No.: 649668 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	6.2	U	6.2
100-42-5	Styrene	6.2	U	6.2
10061-01-5	cis-1,3-Dichloropropene	6.2	U	6.2
10061-02-6	trans-1,3-Dichloropropene	6.2	U	6.2
103-65-1	N-Propylbenzene	6.2	U	6.2
104-51-8	n-Butylbenzene	6.2	U	6.2
106-43-4	4-Chlorotoluene	6.2	U	6.2
106-46-7	1,4-Dichlorobenzene	6.2	U	6.2
106-93-4	Ethylene Dibromide	6.2	U	6.2
107-05-1	3-Chloro-1-propene	12	U	12
107-06-2	1,2-Dichloroethane	6.2	U	6.2
108-05-4	Vinyl acetate	12	U	12
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25
108-67-8	1,3,5-Trimethylbenzene	6.2	U	6.2
108-86-1	Bromobenzene	6.2	U	6.2
108-87-2	Methylcyclohexane	6.2	U	6.2
108-88-3	Toluene	6.2	U	6.2
108-90-7	Chlorobenzene	6.2	U	6.2
109-99-9	Tetrahydrofuran	25	U	25
110-54-3	Hexane	6.2	U	6.2
110-82-7	Cyclohexane	6.2	U	6.2
120-82-1	1,2,4-Trichlorobenzene	6.2	U	6.2
124-48-1	Chlorodibromomethane	6.2	U	6.2
127-18-4	Tetrachloroethene	6.2	U	6.2
135-98-8	sec-Butylbenzene	6.2	U	6.2
142-28-9	1,3-Dichloropropane	6.2	U	6.2
156-59-2	cis-1,2-Dichloroethene	3.1	U	3.1
156-60-5	trans-1,2-Dichloroethene	3.1	U	3.1
1634-04-4	Methyl tert-butyl ether	25	U	25
179601-23-1	m-Xylene & p-Xylene	3.1	U	3.1
541-73-1	1,3-Dichlorobenzene	6.2	U	6.2
56-23-5	Carbon tetrachloride	6.2	U	6.2
563-58-6	1,1-Dichloropropene	6.2	U	6.2
591-78-6	2-Hexanone	25	U	25

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB5-20-04032024 Lab Sample ID: 280-189690-4

Matrix: Solid Lab File ID: MS12_044320.D

Analysis Method: 8260D Date Collected: 04/03/2024 17:35

Sample wt/vol: 4.663(g) Date Analyzed: 04/16/2024 14:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 13.6 % Solids: 86.4 Level: (low/med) Low

Analysis Batch No.: 649668 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	6.2	U	6.2
60-29-7	Ethyl ether	12	U	12
630-20-6	1,1,1,2-Tetrachloroethane	6.2	U	6.2
67-64-1	Acetone	99	U	99
67-66-3	Chloroform	12	U	12
71-43-2	Benzene	6.2	U	6.2
71-55-6	1,1,1-Trichloroethane	6.2	U	6.2
74-83-9	Bromomethane	12	U	12
74-87-3	Chloromethane	12	U ~	12
74-88-4	Iodomethane	6.2	U	6.2
74-95-3	Dibromomethane	6.2	U	6.2
74-97-5	Chlorobromomethane	6.2	U	6.2
75-00-3	Chloroethane	12	U	12
75-01-4	Vinyl chloride	6.2	U	6.2
75-09-2	Methylene Chloride	6.2	U	6.2
75-15-0	Carbon disulfide	6.2	U	6.2
75-25-2	Bromoform	6.2	U ~ UJ	6.2
75-27-4	Dichlorobromomethane	6.2	U	6.2
75-34-3	1,1-Dichloroethane	6.2	U	6.2
75-35-4	1,1-Dichloroethene	6.2	U	6.2
75-69-4	Trichlorofluoromethane	12	U	12
75-71-8	Dichlorodifluoromethane	12	U	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25	U	25
78-87-5	1,2-Dichloropropane	6.2	U	6.2
78-93-3	2-Butanone (MEK)	25	U	25
79-00-5	1,1,2-Trichloroethane	6.2	U	6.2
79-01-6	Trichloroethene	6.2	U	6.2
79-20-9	Methyl acetate	12	U	12
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U	6.2
87-61-6	1,2,3-Trichlorobenzene	6.2	U	6.2
87-68-3	Hexachlorobutadiene	6.2	U	6.2
91-20-3	Naphthalene	8.2	U	8.2
95-47-6	o-Xylene	3.1	U	3.1

LCS

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB5-20-04032024 Lab Sample ID: 280-189690-4

Matrix: Solid Lab File ID: MS12_044320.D

Analysis Method: 8260D Date Collected: 04/03/2024 17:35

Sample wt/vol: 4.663(g) Date Analyzed: 04/16/2024 14:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 13.6 % Solids: 86.4 Level: (low/med) Low

Analysis Batch No.: 649668 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	6.2	U	6.2
95-50-1	1,2-Dichlorobenzene	6.2	U	6.2
95-63-6	1,2,4-Trimethylbenzene	6.2	U	6.2
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12
96-18-4	1,2,3-Trichloropropane	6.2	U	6.2
97-63-2	Ethyl methacrylate	6.2	U	6.2
98-06-6	tert-Butylbenzene	6.2	U	6.2
98-82-8	Isopropylbenzene	6.2	U	6.2
99-87-6	4-Isopropyltoluene	6.2	U	6.2
1330-20-7	Xylenes, Total	6.2	U	6.2
540-59-0	1,2-Dichloroethene, Total	6.2	U	6.2
542-75-6	1,3-Dichloropropene, Total	6.2	U	6.2
STL00209	Trihalomethanes, Total	12	U	12
STL00431	Total BTEX	6.2	U	6.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		58-140
1868-53-7	Dibromofluoromethane (Surr)	98		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	104		76-127

MM 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB5-25-04032024 Lab Sample ID: 280-189690-5

Matrix: Solid Lab File ID: MS12_044321.D

Analysis Method: 8260D Date Collected: 04/03/2024 17:40

Sample wt/vol: 5.322(g) Date Analyzed: 04/16/2024 15:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 16.4 % Solids: 83.6 Level: (low/med) Low

Analysis Batch No.: 649668 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
103-41-4	Ethylbenzene	5.6	U	5.6
100-42-5	Styrene	5.6	U	5.6
10061-01-5	cis-1,3-Dichloropropene	5.6	U	5.6
10061-02-6	trans-1,3-Dichloropropene	5.6	U	5.6
103-65-1	N-Propylbenzene	5.6	U	5.6
104-51-8	n-Butylbenzene	5.6	U	5.6
106-43-4	4-Chlorotoluene	5.6	U	5.6
106-46-7	1,4-Dichlorobenzene	5.6	U	5.6
106-93-4	Ethylene Dibromide	5.6	U	5.6
107-05-1	3-Chloro-1-propene	11	U	11
107-06-2	1,2-Dichloroethane	5.6	U	5.6
108-05-4	Vinyl acetate	11	U	11
108-10-1	4-Methyl-2-pentanone (MIBK)	22	U	22
108-67-8	1,3,5-Trimethylbenzene	5.6	U	5.6
108-86-1	Bromobenzene	5.6	U	5.6
108-87-2	Methylcyclohexane	5.6	U	5.6
108-88-3	Toluene	5.6	U	5.6
108-90-7	Chlorobenzene	5.6	U	5.6
109-99-9	Tetrahydrofuran	22	U	22
110-54-3	Hexane	5.6	U	5.6
110-82-7	Cyclohexane	5.6	U	5.6
120-82-1	1,2,4-Trichlorobenzene	5.6	U	5.6
124-48-1	Chlorodibromomethane	5.6	U	5.6
127-18-4	Tetrachloroethene	5.6	U	5.6
135-98-8	sec-Butylbenzene	5.6	U	5.6
142-28-9	1,3-Dichloropropane	5.6	U	5.6
156-59-2	cis-1,2-Dichloroethene	2.8	U	2.8
156-60-5	trans-1,2-Dichloroethene	2.8	U	2.8
1634-04-4	Methyl tert-butyl ether	22	U	22
179601-23-1	m-Xylene & p-Xylene	2.8	U	2.8
541-73-1	1,3-Dichlorobenzene	5.6	U	5.6
56-23-5	Carbon tetrachloride	5.6	U	5.6
563-58-6	1,1-Dichloropropene	5.6	U	5.6
591-78-6	2-Hexanone	22	U	22

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB5-25-04032024 Lab Sample ID: 280-189690-5

Matrix: Solid Lab File ID: MS12_044321.D

Analysis Method: 8260D Date Collected: 04/03/2024 17:40

Sample wt/vol: 5.322(g) Date Analyzed: 04/16/2024 15:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 16.4 % Solids: 83.6 Level: (low/med) Low

Analysis Batch No.: 649668 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.6	U	5.6
60-29-7	Ethyl ether	11	U	11
630-20-6	1,1,1,2-Tetrachloroethane	5.6	U	5.6
67-64-1	Acetone	90	U	90
67-66-3	Chloroform	11	U	11
71-43-2	Benzene	5.6	U	5.6
71-55-6	1,1,1-Trichloroethane	5.6	U	5.6
74-83-9	Bromomethane	11	U	11
74-87-3	Chloromethane	11	U	11
74-88-4	Iodomethane	5.6	U	5.6
74-95-3	Dibromomethane	5.6	U	5.6
74-97-5	Chlorobromomethane	5.6	U	5.6
75-00-3	Chloroethane	11	U	11
75-01-4	Vinyl chloride	5.6	U	5.6
75-09-2	Methylene Chloride	5.6	U	5.6
75-15-0	Carbon disulfide	5.6	U	5.6
75-25-2	Bromoform	5.6	U	5.6
75-27-4	Dichlorobromomethane	5.6	U	5.6
75-34-3	1,1-Dichloroethane	5.6	U	5.6
75-35-4	1,1-Dichloroethene	5.6	U	5.6
75-69-4	Trichlorofluoromethane	11	U	11
75-71-8	Dichlorodifluoromethane	11	U	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22
78-87-5	1,2-Dichloropropane	5.6	U	5.6
78-93-3	2-Butanone (MEK)	22	U	22
79-00-5	1,1,2-Trichloroethane	5.6	U	5.6
79-01-6	Trichloroethene	5.6	U	5.6
79-20-9	Methyl acetate	11	U	11
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U	5.6
87-61-6	1,2,3-Trichlorobenzene	5.6	U	5.6
87-68-3	Hexachlorobutadiene	5.6	U	5.6
91-20-3	Naphthalene	7.4	U	7.4
95-47-6	o-Xylene	2.8	U	2.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1
SDG No.:
Client Sample ID: POST-SO-SB5-25-04032024 | Lab Sample ID: 280-189690-5
Matrix: Solid | Lab File ID: MS12_044321.D
Analysis Method: 8260D | Date Collected: 04/03/2024 17:40
Sample wt/vol: 5.322(g) | Date Analyzed: 04/16/2024 15:01
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 16.4 % Solids: 83.6 | Level: (low/med) Low
Analysis Batch No.: 649668 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.6	U	5.6
95-50-1	1,2-Dichlorobenzene	5.6	U	5.6
95-63-6	1,2,4-Trimethylbenzene	5.6	U	5.6
96-12-8	1,2-Dibromo-3-Chloropropane	11	U	11
96-18-4	1,2,3-Trichloropropane	5.6	U	5.6
97-63-2	Ethyl methacrylate	5.6	U	5.6
98-06-6	tert-Butylbenzene	5.6	U	5.6
98-82-8	Isopropylbenzene	5.6	U	5.6
99-87-6	4-Isopropyltoluene	5.6	U	5.6
1330-20-7	Xylenes, Total	5.6	U	5.6
540-59-0	1,2-Dichloroethene, Total	5.6	U	5.6
542-75-6	1,3-Dichloropropene, Total	5.6	U	5.6
87616209	Trihalomethanes, Total	11	U	11
87620411	Total BTEX	5.6	U	5.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		59-140
1868-53-7	Dibromofluoromethane (Surr)	97		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-124
460-00-4	4-Bromofluorobenzene (Surr)	105		76-127

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: DUP-SO-2-04032024 | Lab Sample ID: 280-189690-6

Matrix: Solid | Lab File ID: MS12_044322.D

Analysis Method: 8260D | Date Collected: 04/03/2024 17:00

Sample wt/vol: 5.671(g) | Date Analyzed: 04/16/2024 15:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 15.3 % Solids: 84.7 | Level: (low/med) Low

Analysis Batch No.: 649668 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.2	U	5.2
100-42-5	Styrene	5.2	U	5.2
10061-01-5	cis-1,3-Dichloropropene	5.2	U	5.2
10061-02-6	trans-1,3-Dichloropropene	5.2	U	5.2
103-65-1	N-Propylbenzene	5.2	U	5.2
104-51-8	n-Butylbenzene	5.2	U	5.2
106-43-4	4-Chlorotoluene	5.2	U	5.2
106-46-7	1,4-Dichlorobenzene	5.2	U	5.2
106-93-4	Ethylene Dibromide	5.2	U	5.2
107-05-1	3-Chloro-1-propene	10	U	10
107-06-2	1,2-Dichloroethane	5.2	U	5.2
108-05-4	Vinyl acetate	10	U	10
108-10-1	4-Methyl-2-pentanone (MIBK)	21	U	21
108-67-8	1,3,5-Trimethylbenzene	5.2	U	5.2
108-86-1	Bromobenzene	5.2	U	5.2
108-87-2	Methylcyclohexane	5.2	U	5.2
108-88-3	Toluene	5.2	U	5.2
108-90-7	Chlorobenzene	5.2	U	5.2
109-99-9	Tetrahydrofuran	21	U	21
110-54-3	Hexane	5.2	U	5.2
110-82-7	Cyclohexane	5.2	U	5.2
120-82-1	1,2,4-Trichlorobenzene	5.2	U	5.2
124-48-1	Chlorodibromomethane	5.2	U	5.2
127-18-4	Tetrachloroethene	5.2	U	5.2
135-98-8	sec-Butylbenzene	5.2	U	5.2
142-28-9	1,3-Dichloropropane	5.2	U	5.2
156-59-2	cis-1,2-Dichloroethene	2.6	U	2.6
156-60-5	trans-1,2-Dichloroethene	2.6	U	2.6
1634-04-4	Methyl tert-butyl ether	21	U	21
179601-23-1	m-Xylene & p-Xylene	2.6	U	2.6
541-73-1	1,3-Dichlorobenzene	5.2	U	5.2
56-23-5	Carbon tetrachloride	5.2	U	5.2
563-58-6	1,1-Dichloropropene	5.2	U	5.2
591-78-6	2-Hexanone	21	U	21

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: DUP-SO-2-04032024 | Lab Sample ID: 280-189690-6

Matrix: Solid | Lab File ID: MS12_044322.D

Analysis Method: 8260D | Date Collected: 04/03/2024 17:00

Sample wt/vol: 5.671(g) | Date Analyzed: 04/16/2024 15:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 15.3 % Solids: 84.7 | Level: (low/med) Low

Analysis Batch No.: 649668 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.2	U	5.2
60-29-7	Ethyl ether	10	U	10
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U	5.2
67-64-1	Acetone	83	U	83
67-66-3	Chloroform	10	U	10
71-43-2	Benzene	5.2	U	5.2
71-55-6	1,1,1-Trichloroethane	5.2	U	5.2
74-83-9	Bromomethane	10	U	10
74-87-3	Chloromethane	10	U	10
74-88-4	Iodomethane	5.2	U	5.2
74-95-3	Dibromomethane	5.2	U	5.2
74-97-5	Chlorobromomethane	5.2	U	5.2
75-00-3	Chloroethane	10	U	10
75-01-4	Vinyl chloride	5.2	U	5.2
75-09-2	Methylene Chloride	5.2	U	5.2
75-15-0	Carbon disulfide	5.2	U	5.2
75-25-2	Bromoform	5.2	U	5.2
75-27-4	Dichlorobromomethane	5.2	U	5.2
75-34-3	1,1-Dichloroethane	5.2	U	5.2
75-35-4	1,1-Dichloroethene	5.2	U	5.2
75-69-4	Trichlorofluoromethane	10	U	10
75-71-8	Dichlorodifluoromethane	10	U	10
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21
78-87-5	1,2-Dichloropropane	5.2	U	5.2
78-93-3	2-Butanone (MEK)	21	U	21
79-00-5	1,1,2-Trichloroethane	5.2	U	5.2
79-01-6	Trichloroethene	5.2	U	5.2
79-20-9	Methyl acetate	10	U	10
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U	5.2
87-61-6	1,2,3-Trichlorobenzene	5.2	U	5.2
87-68-3	Hexachlorobutadiene	5.2	U	5.2
91-20-3	Naphthalene	6.9	U	6.9
95-47-6	o-Xylene	2.6	U	2.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: DUP-SO-2-04032024 | Lab Sample ID: 280-189690-6

Matrix: Solid | Lab File ID: MS12_044322.D

Analysis Method: 8260D | Date Collected: 04/03/2024 17:00

Sample wt/vol: 5.671(g) | Date Analyzed: 04/16/2024 15:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 15.3 % Solids: 84.7 | Level: (low/med) Low

Analysis Batch No.: 649668 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.2	U	5.2
95-50-1	1,2-Dichlorobenzene	5.2	U	5.2
95-63-6	1,2,4-Trimethylbenzene	5.2	U	5.2
96-12-8	1,2-Dibromo-3-Chloropropane	10	U	10
96-18-4	1,2,3-Trichloropropane	5.2	U	5.2
97-63-2	Ethyl methacrylate	5.2	U	5.2
98-06-6	tert-Butylbenzene	5.2	U	5.2
98-82-8	Isopropylbenzene	5.2	U	5.2
99-87-6	4-Isopropyltoluene	5.2	U	5.2
1330-20-7	Xylenes, Total	5.2	U	5.2
540-59-0	1,2-Dichloroethene, Total	5.2	U	5.2
542-75-6	1,3-Dichloropropene, Total	5.2	U	5.2
STL00209	Trihalomethanes, Total	10	U	10
STL00431	Total BTEX	5.2	U	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		58-140
1868-53-7	Dibromofluoromethane (Surr)	98		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	103		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1
SDG No.:
Client Sample ID: POST-SO-SB2-05-04042024 Lab Sample ID: 280-189690-7
Matrix: Solid Lab File ID: MS12_044323.D
Analysis Method: 8260D Date Collected: 04/04/2024 11:40
Sample wt/vol: 5.388(g) Date Analyzed: 04/16/2024 15:41
Soil Aliquot Vol: Dilution Factor: 1
Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:
% Moisture: 15.1 % Solids: 84.9 Level: (low/med) Low
Analysis Batch No.: 649668 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.5	U	5.5
100-42-5	Styrene	5.5	U	5.5
10061-01-5	cis-1,3-Dichloropropene	5.5	U	5.5
10061-02-6	trans-1,3-Dichloropropene	5.5	U	5.5
103-65-1	N-Propylbenzene	5.5	U	5.5
104-51-8	n-Butylbenzene	5.5	U	5.5
106-43-4	4-Chlorotoluene	5.5	U	5.5
106-46-7	1,4-Dichlorobenzene	5.5	U	5.5
106-93-4	Ethylene Dibromide	5.5	U	5.5
107-05-1	3-Chloro-1-propene	11	U	11
107-06-2	1,2-Dichloroethane	5.5	U	5.5
108-05-4	Vinyl acetate	11	U	11
108-10-1	4-Methyl-2-pentanone (MIBK)	22	U	22
108-67-8	**1,3,5-Trimethylbenzene**	5.5	U	5.5
108-86-1	**Bromobenzene**	5.5	U	5.5
108-87-2	Methylcyclohexane	5.5	U	5.5
108-88-3	**Toluene**	5.5	U	5.5
108-90-7	Chlorobenzene	5.5	U	5.5
109-99-9	**Tetrahydrofuran**	22	U	22
110-54-3	Hexane	5.5	U	5.5
110-82-7	Cyclohexane	5.5	U	5.5
120-82-1	1,2,4-Trichlorobenzene	5.5	U	5.5
124-48-1	Chlorodibromomethane	5.5	U	5.5
127-18-4	Tetrachloroethene	5.5	U	5.5
135-98-8	sec-Butylbenzene	5.5	U	5.5
142-28-9	1,3-Dichloropropane	5.5	U	5.5
156-59-2	cis-1,2-Dichloroethene	2.7	U	2.7
156-60-5	trans-1,2-Dichloroethene	2.7	U	2.7
1634-04-4	Methyl tert-butyl ether	22	U	22
179601-23-1	m-Xylene & p-Xylene	2.7	U	2.7
541-73-1	1,3-Dichlorobenzene	5.5	U	5.5
56-23-5	Carbon tetrachloride	5.5	U	5.5
563-58-6	1,1-Dichloropropene	5.5	U	5.5
591-78-6	2-Hexanone	22	U	22

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB2-05-04042024 | Lab Sample ID: 280-189690-7

Matrix: Solid | Lab File ID: MS12_044323.D

Analysis Method: 8260D | Date Collected: 04/04/2024 11:40

Sample wt/vol: 5.388(g) | Date Analyzed: 04/16/2024 15:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 15.1 % Solids: 84.9 | Level: (low/med) Low

Analysis Batch No.: 649668 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.5	U	5.5
60-29-7	Ethyl ether	11	U	11
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U	5.5
67-64-1	Acetone	140		97
67-66-3	Chloroform	11	U	11
71-43-2	Benzene	5.5	U	5.5
71-55-6	1,1,1-Trichloroethane	5.5	U	5.5
74-83-9	Bromomethane	11	U	11
74-87-3	Chloromethane	11	U	11
74-88-4	Iodomethane	5.5	U	5.5
74-95-3	Dibromomethane	5.5	U	5.5
74-97-5	Chlorobromomethane	5.5	U	5.5
75-00-3	Chloroethane	11	U	11
75-01-4	Vinyl chloride	5.5	U	5.5
75-09-2	Methylene Chloride	5.5	U	5.5
75-15-0	Carbon disulfide	5.5	U	5.5
75-25-2	Bromoform	5.5	U	5.5
75-27-4	Dichlorobromomethane	5.5	U	5.5
75-34-3	1,1-Dichloroethane	5.5	U	5.5
75-35-4	1,1-Dichloroethene	5.5	U	5.5
75-69-4	Trichlorofluoromethane	11	U	11
75-71-8	Dichlorodifluoromethane	11	U	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22
78-87-5	1,2-Dichloropropane	5.5	U	5.5
78-93-3	2-Butanone (MEK)	22	U	22
79-00-5	1,1,2-Trichloroethane	5.5	U	5.5
79-01-6	Trichloroethene	5.5	U	5.5
79-20-9	Methyl acetate	11	U	11
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U	5.5
87-61-6	1,2,3-Trichlorobenzene	5.5	U	5.5
87-68-3	Hexachlorobutadiene	5.5	U	5.5
91-20-3	Naphthalene	7.2	U	7.2
95-47-6	o-Xylene	2.7	U	2.7

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB2-05-04042024 Lab Sample ID: 280-189690-7

Matrix: Solid Lab File ID: MS12_044323.D

Analysis Method: 8260D Date Collected: 04/04/2024 11:40

Sample wt/vol: 5.388(g) Date Analyzed: 04/16/2024 15:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 15.1 % Solids: 84.9 Level: (low/med) Low

Analysis Batch No.: 649668 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.5	U	5.5
95-50-1	1,2-Dichlorobenzene	5.5	U	5.5
95-63-6	1,2,4-Trimethylbenzene	5.5	U	5.5
96-12-8	1,2-Dibromo-3-Chloropropane	11	U	11
96-18-4	1,2,3-Trichloropropane	5.5	U	5.5
97-63-2	Ethyl methacrylate	5.5	U	5.5
98-06-6	tert-Butylbenzene	5.5	U	5.5
98-82-8	Isopropylbenzene	5.5	U	5.5
99-87-6	4-Isopropyltoluene	5.5	U	5.5
1330-20-7	Xylenes, Total	5.5	U	5.5
540-59-0	1,2-Dichloroethene, Total	5.5	U	5.5
542-75-6	1,3-Dichloropropene, Total	5.5	U	5.5
STL00059	Trihalomethanes, Total	11	U	11
STL00431	Total BTEX	5.5	U	5.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		58-140
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	103		76-127

MAT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB2-10-0404202 | Lab Sample ID: 280-189690-8

Matrix: Solid | Lab File ID: MS12_044402.D

Analysis Method: 8260D | Date Collected: 04/04/2024 11:45

Sample wt/vol: 4.853(g) | Date Analyzed: 04/18/2024 00:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 13.0 % Solids: 87.0 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.9	U	5.9
100-42-5	Styrene	5.9	U	5.9
10061-01-5	cis-1,3-Dichloropropene	5.9	U	5.9
10061-02-6	trans-1,3-Dichloropropene	5.9	U	5.9
103-65-1	N-Propylbenzene	5.9	U	5.9
104-51-8	n-Butylbenzene	5.9	U	5.9
106-43-4	4-Chlorotoluene	5.9	U	5.9
106-46-7	1,4-Dichlorobenzene	5.9	U	5.9
106-93-4	Ethylene Dibromide	5.9	U	5.9
107-05-1	3-Chloro-1-propene	12	U	12
107-06-2	1,2-Dichloroethane	5.9	U	5.9
108-05-4	Vinyl acetate	12	U	12
108-10-1	4-Methyl-2-pentanone (MIBK)	24	U	24
108-67-8	1,3,5-Trimethylbenzene	5.9	U	5.9
108-86-1	Bromobenzene	5.9	U	5.9
108-87-2	Methylcyclohexane	5.9	U	5.9
108-88-3	Toluene	5.9	U	5.9
108-90-7	Chlorobenzene	5.9	U	5.9
109-99-9	Tetrahydrofuran	24	U	24
110-54-3	Hexane	5.9	U	5.9
110-82-7	Cyclohexane	5.9	U	5.9
120-82-1	1,2,4-Trichlorobenzene	5.9	U	5.9
124-48-1	Chlorodibromomethane	5.9	U	5.9
127-18-4	Tetrachloroethene	5.9	U	5.9
135-98-8	sec-Butylbenzene	5.9	U	5.9
142-28-9	1,3-Dichloropropane	5.9	U	5.9
156-59-2	cis-1,2-Dichloroethene	3.0	U	3.0
156-60-5	trans-1,2-Dichloroethene	3.0	U	3.0
1634-04-4	Methyl tert-butyl ether	24	U	24
179601-23-1	m-Xylene & p-Xylene	3.0	U	3.0
541-73-1	1,3-Dichlorobenzene	5.9	U	5.9
56-23-5	Carbon tetrachloride	5.9	U	5.9
563-58-6	1,1-Dichloropropene	5.9	U	5.9
591-78-6	2-Hexanone	24	U	24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1
SDG No.:
Client Sample ID: POST-SO-SB2-10-04042024 | Lab Sample ID: 280-189690-8
Matrix: Solid | Lab File ID: MS12_044402.D
Analysis Method: 8260D | Date Collected: 04/04/2024 11:45
Sample wt/vol: 4.853(g) | Date Analyzed: 04/18/2024 00:00
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 13.0 % Solids: 87.0 | Level: (low/med) Low
Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.9	U	5.9
60-29-7	Ethyl ether	12	U	12
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U	5.9
67-64-1	Acetone	95	U	95
67-66-3	Chloroform	12	U	12
71-43-2	Benzene	5.9	U	5.9
71-55-6	1,1,1-Trichloroethane	5.9	U	5.9
74-83-9	Bromomethane	12	U	12
74-87-3	Chloromethane	12	U	12
74-88-4	Iodomethane	5.9	U	5.9
74-95-3	Dibromomethane	5.9	U	5.9
74-97-5	Chlorobromomethane	5.9	U	5.9
75-00-3	Chloroethane	12	U	12
75-01-4	Vinyl chloride	5.9	U	5.9
75-09-2	Methylene Chloride	5.9	U	5.9
75-15-0	Carbon disulfide	5.9	U	5.9
75-25-2	Bromoform	5.9	U	5.9
75-27-4	Dichlorobromomethane	5.9	U	5.9
75-34-3	1,1-Dichloroethane	5.9	U	5.9
75-35-4	1,1-Dichloroethene	5.9	U	5.9
75-69-4	Trichlorofluoromethane	12	U	12
75-71-8	Dichlorodifluoromethane	12	U	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	24
78-87-5	1,2-Dichloropropane	5.9	U	5.9
78-93-3	2-Butanone (MEK)	24	U	24
79-00-5	1,1,2-Trichloroethane	5.9	U	5.9
79-01-6	Trichloroethene	5.9	U	5.9
79-20-9	Methyl acetate	12	U	12
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U	5.9
87-61-6	1,2,3-Trichlorobenzene	5.9	U	5.9
87-68-3	Hexachlorobutadiene	5.9	U	5.9
91-20-3	Naphthalene	7.8	U	7.8
95-47-6	o-Xylene	3.0	U	3.0

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB2-10-04042024 Lab Sample ID: 280-189690-8

Matrix: Solid Lab File ID: MS12_044402.D

Analysis Method: 8260D Date Collected: 04/04/2024 11:45

Sample wt/vol: 4.853(g) Date Analyzed: 04/18/2024 00:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 13.0 % Solids: 87.0 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.9	U	5.9
95-50-1	1,2-Dichlorobenzene	5.9	U	5.9
95-63-6	1,2,4-Trimethylbenzene	5.9	U	5.9
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12
96-18-4	1,2,3-Trichloropropane	5.9	U	5.9
97-63-2	Ethyl methacrylate	5.9	U	5.9
98-06-6	tert-Butylbenzene	5.9	U	5.9
98-82-8	Isopropylbenzene	5.9	U	5.9
99-87-6	4-Isopropyltoluene	5.9	U	5.9
1330-20-7	Xylenes, Total	5.9	U	5.9
540-59-0	1,2-Dichloroethene, Total	5.9	U	5.9
542-75-6	1,3-Dichloropropene, Total	5.9	U	5.9
91L00209	Trihalomethanes, Total	12	U	12
91L00431	Total BTEX	5.9	U	5.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		58-140
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
2037-26-5	Toluene-d8 (Surr)	98		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		76-127

MF 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB2-15-04042024 Lab Sample ID: 280-189690-9

Matrix: Solid Lab File ID: MS12_044403.D

Analysis Method: 8260D Date Collected: 04/04/2024 11:50

Sample wt/vol: 5.304(g) Date Analyzed: 04/18/2024 00:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 12.8 % Solids: 87.2 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.4	U	5.4
100-42-5	Styrene	5.4	U	5.4
10061-01-5	cis-1,3-Dichloropropene	5.4	U	5.4
10061-02-6	trans-1,3-Dichloropropene	5.4	U	5.4
103-65-1	N-Propylbenzene	5.4	U	5.4
104-51-8	n-Butylbenzene	5.4	U	5.4
106-43-4	4-Chlorotoluene	5.4	U	5.4
106-46-7	1,4-Dichlorobenzene	5.4	U	5.4
106-93-4	Ethylene Dibromide	5.4	U	5.4
107-05-1	3-Chloro-1-propene	11	U	11
107-06-2	1,2-Dichloroethane	5.4	U	5.4
108-05-4	Vinyl acetate	11	U	11
108-10-1	4-Methyl-2-pentanone (MIBK)	22	U	22
108-67-8	1,3,5-Trimethylbenzene	5.4	U	5.4
108-86-1	Bromobenzene	5.4	U	5.4
108-87-2	Methylcyclohexane	5.4	U	5.4
108-88-3	Toluene	5.4	U	5.4
108-90-7	Chlorobenzene	5.4	U	5.4
109-99-9	Tetrahydrofuran	22	U	22
110-54-3	Hexane	5.4	U	5.4
110-82-7	Cyclohexane	5.4	U	5.4
120-82-1	1,2,4-Trichlorobenzene	5.4	U	5.4
124-48-1	Chlorodibromomethane	5.4	U	5.4
127-18-4	Tetrachloroethene	5.4	U	5.4
135-98-8	sec-Butylbenzene	5.4	U	5.4
142-28-9	1,3-Dichloropropane	5.4	U	5.4
156-59-2	cis-1,2-Dichloroethene	2.7	U	2.7
156-60-5	trans-1,2-Dichloroethene	2.7	U	2.7
1634-04-4	Methyl tert-butyl ether	22	U	22
179601-23-1	m-Xylene & p-Xylene	2.7	U	2.7
541-73-1	1,3-Dichlorobenzene	5.4	U	5.4
56-23-5	Carbon tetrachloride	5.4	U	5.4
563-58-6	1,1-Dichloropropene	5.4	U	5.4
591-78-6	2-Hexanone	22	U	22

MT 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB2-15-04042024 | Lab Sample ID: 280-189690-9

Matrix: Solid | Lab File ID: MS12_044403.D

Analysis Method: 8260D | Date Collected: 04/04/2024 11:50

Sample wt/vol: 5.304(g) | Date Analyzed: 04/18/2024 00:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 12.8 % Solids: 87.2 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.4	U	5.4
60-29-7	Ethyl ether	11	U	11
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U	5.4
67-64-1	Acetone	220		86
67-66-3	Chloroform	11	U	11
71-43-2	Benzene	5.4	U	5.4
71-55-6	1,1,1-Trichloroethane	5.4	U	5.4
74-83-9	Bromomethane	11	U	11
74-87-3	Chloromethane	11	U	11
74-88-4	Iodomethane	5.4	U	5.4
74-95-3	Dibromomethane	5.4	U	5.4
74-97-5	Chlorobromomethane	5.4	U	5.4
75-00-3	Chloroethane	11	U	11
75-01-4	Vinyl chloride	5.4	U	5.4
75-09-2	Methylene Chloride	5.4	U	5.4
75-15-0	Carbon disulfide	5.4	U	5.4
75-25-2	Bromoform	5.4	U	5.4
75-27-4	Dichlorobromomethane	5.4	U	5.4
75-34-3	1,1-Dichloroethane	5.4	U	5.4
75-35-4	1,1-Dichloroethene	5.4	U	5.4
75-69-4	Trichlorofluoromethane	11	U	11
75-71-8	Dichlorodifluoromethane	11	U	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22
78-87-5	1,2-Dichloropropane	5.4	U	5.4
78-93-3	2-Butanone (MEK)	22	U	22
79-00-5	1,1,2-Trichloroethane	5.4	U	5.4
79-01-6	Trichloroethene	5.4	U	5.4
79-20-9	Methyl acetate	11	U	11
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U	5.4
87-61-6	1,2,3-Trichlorobenzene	5.4	U	5.4
87-68-3	Hexachlorobutadiene	5.4	U	5.4
91-20-3	Naphthalene	7.1	U	7.1
95-47-6	o-Xylene	2.7	U	2.7

MT 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB2-15-04042024 Lab Sample ID: 280-189690-9

Matrix: Solid Lab File ID: MS12_044403.D

Analysis Method: 8260D Date Collected: 04/04/2024 11:50

Sample wt/vol: 5.304(g) Date Analyzed: 04/18/2024 00:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 12.8 % Solids: 87.2 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-49-8	2-Chlorotoluene	5.4	U	5.4	
95-50-1	1,2-Dichlorobenzene	5.4	U	5.4	
95-63-6	1,2,4-Trimethylbenzene	5.4	U	5.4	
96-12-8	1,2-Dibromo-3-Chloropropane	11	U	11	
96-18-4	1,2,3-Trichloropropane	5.4	U	5.4	
97-63-2	Ethyl methacrylate	5.4	U	5.4	
98-06-6	tert-Butylbenzene	5.4	U	5.4	
98-82-8	Isopropylbenzene	5.4	U	5.4	
99-87-6	4-Isopropyltoluene	5.4	U	5.4	
1330-20-7	Xylenes, Total	5.4	U	5.4	
540-59-0	1,2-Dichloroethene, Total	5.4	U	5.4	
542-75-6	1,3-Dichloropropene, Total	5.4	U	5.4	
2TL00209	Trihalomethanes, Total	11	U	11	
2TL00431	Total BTEX	5.4	U	5.4	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		58-140
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		76-127

MM 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB2-20-04042024 | Lab Sample ID: 280-189690-10

Matrix: Solid | Lab File ID: MS12_044404.D

Analysis Method: 8260D | Date Collected: 04/04/2024 12:10

Sample wt/vol: 6.525(g) | Date Analyzed: 04/18/2024 00:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 13.1 % Solids: 86.9 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	4.4	U	4.4
100-42-5	Styrene	4.4	U	4.4
10061-01-5	cis-1,3-Dichloropropene	4.4	U	4.4
10061-02-6	trans-1,3-Dichloropropene	4.4	U	4.4
103-65-1	n-Propylbenzene	4.4	U	4.4
104-51-8	n-Butylbenzene	4.4	U	4.4
106-43-4	4-Chlorotoluene	4.4	U	4.4
106-46-7	1,4-Dichlorobenzene	4.4	U	4.4
106-93-4	Ethylene Dibromide	4.4	U	4.4
107-05-1	3-Chloro-1-propene	8.8	U	8.8
107-06-2	1,2-Dichloroethane	4.4	U	4.4
108-05-4	Vinyl acetate	8.8	U	8.8
108-10-1	4-Methyl-2-pentanone (MIBK)	18	U	18
108-67-8	1,3,5-Trimethylbenzene	4.4	U	4.4
108-86-1	Bromobenzene	4.4	U	4.4
108-87-2	Methylcyclohexane	4.4	U	4.4
108-88-3	Toluene	4.4	U	4.4
108-90-7	Chlorobenzene	4.4	U	4.4
109-99-9	Tetrahydrofuran	18	U	18
110-54-3	Hexane	4.4	U	4.4
110-82-7	Cyclohexane	4.4	U	4.4
120-82-1	1,2,4-Trichlorobenzene	4.4	U	4.4
124-48-1	Chlorodibromomethane	4.4	U	4.4
127-18-4	Tetrachloroethene	4.4	U	4.4
135-98-8	sec-Butylbenzene	4.4	U	4.4
142-28-9	1,3-Dichloropropane	4.4	U	4.4
156-59-2	cis-1,2-Dichloroethene	2.2	U	2.2
156-60-5	trans-1,2-Dichloroethene	2.2	U	2.2
1634-04-4	Methyl tert-butyl ether	18	U	18
179601-23-1	m-Xylene & p-Xylene	2.2	U	2.2
541-73-1	1,3-Dichlorobenzene	4.4	U	4.4
56-23-5	Carbon tetrachloride	4.4	U	4.4
563-58-6	1,1-Dichloropropene	4.4	U	4.4
591-78-6	2-Hexanone	18	U	18

MM 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB2-20-04042024 | Lab Sample ID: 280-189690-10

Matrix: Solid | Lab File ID: MS12_044404.D

Analysis Method: 8260D | Date Collected: 04/04/2024 12:10

Sample wt/vol: 6.525(g) | Date Analyzed: 04/18/2024 00:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 13.1 % Solids: 86.9 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
[illegible]	2,2-Dichloropropane	4.4	U	4.4
60-29-7	Ethyl ether	8.8	U	8.8
630-20-6	1,1,1,2-Tetrachloroethane	4.4	U	4.4
67-64-1	Acetone	220		71
67-66-3	Chloroform	8.8	J	8.8
71-43-2	Benzene	4.4	U	4.4
71-55-6	1,1,1-Trichloroethane	4.4	U	4.4
74-83-9	Bromomethane	8.8	U	8.8
74-87-3	Chloromethane	8.8	U	8.8
74-88-4	Iodomethane	4.4	U	4.4
74-95-3	Dibromomethane	4.4	U	4.4
74-97-5	Chlorobromomethane	4.4	U	4.4
75-00-3	Chloroethane	8.8	U	8.8
75-01-4	Vinyl chloride	4.4	U	4.4
75-09-2	Methylene Chloride	4.4	U	4.4
75-15-0	Carbon disulfide	4.4	U	4.4
75-25-2	Bromoform	4.4	U	4.4
75-27-4	Dichlorobromomethane	4.4	U	4.4
75-34-3	1,1-Dichloroethane	4.4	U	4.4
75-35-4	1,1-Dichloroethene	4.4	U	4.4
75-69-4	Trichlorofluoromethane	8.8	U	8.8
75-71-8	Dichlorodifluoromethane	8.8	U	8.8
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18	U	18
78-87-5	1,2-Dichloropropane	4.4	U	4.4
78-93-3	2-Butanone (MEK)	18	U	18
79-00-5	1,1,2-Trichloroethane	4.4	U	4.4
79-01-6	Trichloroethene	4.4	U	4.4
79-20-9	Methyl acetate	8.8	U	8.8
79-34-5	1,1,2,2-Tetrachloroethane	4.4	U	4.4
87-61-6	1,2,3-Trichlorobenzene	4.4	U	4.4
87-68-3	Hexachlorobutadiene	4.4	U	4.4
91-20-3	Naphthalene	5.8	U	5.8
95-47-6	o-Xylene	2.2	U	2.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB2-20-04042024 Lab Sample ID: 280-189690-10

Matrix: Solid Lab File ID: MS12_044404.D

Analysis Method: 8260D Date Collected: 04/04/2024 12:10

Sample wt/vol: 6.525(g) Date Analyzed: 04/18/2024 00:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 13.1 % Solids: 86.9 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-49-8	2-Chlorotoluene	4.4	U	4.4	
95-50-1	1,2-Dichlorobenzene	4.4	U	4.4	
95-63-6	1,2,4-Trimethylbenzene	4.4	U	4.4	
96-12-8	1,2-Dibromo-3-Chloropropane	8.8	U	8.8	
96-18-4	1,2,3-Trichloropropane	4.4	U	4.4	
97-63-2	Ethyl methacrylate	4.4	U	4.4	
98-06-6	tert-Butylbenzene	4.4	U	4.4	
98-82-8	Isopropylbenzene	4.4	U	4.4	
99-87-6	4-Isopropyltoluene	4.4	U	4.4	
1330-20-7	Xylenes, Total	4.4	U	4.4	
540-59-0	1,2-Dichloroethene, Total	4.4	U	4.4	
542-75-6	1,3-Dichloropropene, Total	4.4	U	4.4	
STL00209	Trihalomethanes, Total	8.8	U	8.8	
STL00431	Total BTEX	4.4	U	4.4	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		58-140
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		76-127

MM 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1
SDG No.:
Client Sample ID: POST-SO-SB2-25-04042024 | Lab Sample ID: 280-189690-11
Matrix: Solid | Lab File ID: MS12_044405.D
Analysis Method: 8260D | Date Collected: 04/04/2024 12:15
Sample wt/vol: 5.730(g) | Date Analyzed: 04/18/2024 00:59
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 16.5 % Solids: 83.5 | Level: (low/med) Low
Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.2	U	5.2
100-42-5	Styrene	5.2	U	5.2
10061-01-5	cis-1,3-Dichloropropene	5.2	U	5.2
10061-02-6	trans-1,3-Dichloropropene	5.2	U	5.2
103-65-1	N-Propylbenzene	5.2	U	5.2
104-51-8	n-Butylbenzene	5.2	U	5.2
106-43-4	4-Chlorotoluene	5.2	U	5.2
106-46-7	1,4-Dichlorobenzene	5.2	U	5.2
106-93-4	Ethylene Dibromide	5.2	U	5.2
107-05-1	3-Chloro-1-propene	10	U	10
107-06-2	1,2-Dichloroethane	5.2	U	5.2
108-05-4	Vinyl acetate	10	U	10
108-10-1	4-Methyl-2-pentanone (MIBK)	21	U	21
108-67-8	1,3,5-Trimethylbenzene	5.2	U	5.2
108-86-1	Bromobenzene	5.2	U	5.2
108-87-2	Methylcyclohexane	5.2	U	5.2
108-88-3	Toluene	5.2	U	5.2
108-90-7	Chlorobenzene	5.2	U	5.2
109-99-9	Tetrahydrofuran	21	U	21
110-54-3	Hexane	5.2	U	5.2
110-82-7	Cyclohexane	5.2	U	5.2
120-82-1	1,2,4-Trichlorobenzene	5.2	U	5.2
124-48-1	Chlorodibromomethane	5.2	U	5.2
127-18-4	Tetrachloroethene	5.2	U	5.2
135-98-8	sec-Butylbenzene	5.2	U	5.2
142-28-9	1,3-Dichloropropane	5.2	U	5.2
156-59-2	cis-1,2-Dichloroethene	2.6	U	2.6
156-60-5	trans-1,2-Dichloroethene	2.6	U	2.6
1634-04-4	Methyl tert-butyl ether	21	U	21
179601-23-1	m-Xylene & p-Xylene	2.6	U	2.6
541-73-1	1,3-Dichlorobenzene	5.2	U	5.2
56-23-5	Carbon tetrachloride	5.2	U	5.2
563-58-6	1,1-Dichloropropene	5.2	U	5.2
591-78-6	2-Hexanone	21	U	21

MM 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB2-25-04042024 Lab Sample ID: 280-189690-11

Matrix: Solid Lab File ID: MS12_044405.D

Analysis Method: 8260D Date Collected: 04/04/2024 12:15

Sample wt/vol: 5.730(g) Date Analyzed: 04/18/2024 00:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 16.5 % Solids: 83.5 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.2	U	5.2
60-29-7	Ethyl ether	10	U	10
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U	5.2
67-64-1	Acetone	84	U	84
67-66-3	Chloroform	10	U	10
71-43-2	Benzene	5.2	U	5.2
71-55-6	1,1,1-Trichloroethane	5.2	U	5.2
74-83-9	Bromomethane	10	U	10
74-87-3	Chloromethane	10	U	10
74-88-4	Iodomethane	5.2	U	5.2
74-95-3	Dibromomethane	5.2	U	5.2
74-97-5	Chlorobromomethane	5.2	U	5.2
75-00-3	Chloroethane	10	U	10
75-01-4	Vinyl chloride	5.2	U	5.2
75-09-2	Methylene Chloride	5.2	U	5.2
75-15-0	Carbon disulfide	5.2	U	5.2
75-25-2	Bromoform	5.2	U	5.2
75-27-4	Dichlorobromomethane	5.2	U	5.2
75-34-3	1,1-Dichloroethane	5.2	U	5.2
75-35-4	1,1-Dichloroethene	5.2	U	5.2
75-69-4	Trichlorofluoromethane	10	U	10
75-71-8	Dichlorodifluoromethane	10	U	10
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21
78-87-5	1,2-Dichloropropane	5.2	U	5.2
78-93-3	2-Butanone (MEK)	21	U	21
79-00-5	1,1,2-Trichloroethane	5.2	U	5.2
79-01-6	Trichloroethene	5.2	U	5.2
79-20-9	Methyl acetate	10	U	10
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U	5.2
87-61-6	1,2,3-Trichlorobenzene	5.2	U	5.2
87-68-3	Hexachlorobutadiene	5.2	U	5.2
91-20-3	Naphthalene	6.9	U	6.9
95-47-6	o-Xylene	2.6	U	2.6

MH 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB2-25-04042024 | Lab Sample ID: 280-189690-11

Matrix: Solid | Lab File ID: MS12_044405.D

Analysis Method: 8260D | Date Collected: 04/04/2024 12:15

Sample wt/vol: 5.730(g) | Date Analyzed: 04/18/2024 00:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 16.5 % Solids: 83.5 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.2	U	5.2
95-50-1	1,2-Dichlorobenzene	5.2	U	5.2
95-63-6	1,2,4-Trimethylbenzene	5.2	U	5.2
96-12-8	1,2-Dibromo-3-Chloropropane	10	U	10
96-18-4	1,2,3-Trichloropropane	5.2	U	5.2
97-63-2	Ethyl methacrylate	5.2	U	5.2
98-06-6	tert-Butylbenzene	5.2	U	5.2
98-82-8	Isopropylbenzene	5.2	U	5.2
99-87-6	4-Isopropyltoluene	5.2	U	5.2
1330-20-7	Xylenes, Total	5.2	U	5.2
540-59-0	1,2-Dichloroethene, Total	5.2	U	5.2
542-75-6	1,3-Dichloropropene, Total	5.2	U	5.2
STL00209	Trihalomethanes, Total	10	U	10
STL00431	Total BTEX	5.2	U	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		58-140
1868-53-7	Dibromofluoromethane (Surr)	101		75-121
2037-26-5	Toluene-d8 (Surr)	100		80-126
460-00-4	4-Bromofluorobenzene (Surr)	100		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB2-30-04042024 | Lab Sample ID: 280-189690-12

Matrix: Solid | Lab File ID: MS12_044406.D

Analysis Method: 8260D | Date Collected: 04/04/2024 12:20

Sample wt/vol: 5.802(g) | Date Analyzed: 04/18/2024 01:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 17.9 % Solids: 82.1 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.2	U	5.2
100-42-5	Styrene	5.2	U	5.2
10061-01-5	cis-1,3-Dichloropropene	5.2	U	5.2
10061-02-6	trans-1,3-Dichloropropene	5.2	U	5.2
103-65-1	N-Propylbenzene	5.2	U	5.2
104-51-8	n-Butylbenzene	5.2	U	5.2
106-43-4	4-Chlorotoluene	5.2	U	5.2
106-46-7	1,4-Dichlorobenzene	5.2	U	5.2
106-93-4	Ethylene Dibromide	5.2	U	5.2
107-05-1	3-Chloro-1-propene	10	U	10
107-06-2	1,2-Dichloroethane	5.2	U	5.2
108-05-4	Vinyl acetate	10	U	10
108-10-1	4-Methyl-2-pentanone (MIBK	21	U	21
108-67-8	1,3,5-Trimethylbenzene	5.2	U	5.2
108-86-1	Bromobenzene	5.2	U	5.2
108-87-2	Methylcyclohexane	5.2	U	5.2
108-88-3	Toluene	5.2	U	5.2
108-90-7	Chlorobenzene	5.2	U	5.2
109-99-9	Tetrahydrofuran	21	U	21
110-54-3	Hexane	5.2	U	5.2
110-82-7	Cyclohexane	5.2	U	5.2
120-82-1	1,2,4-Trichlorobenzene	5.2	U	5.2
124-48-1	Chlorodibromomethane	5.2	U	5.2
127-18-4	Tetrachloroethene	5.2	U	5.2
135-98-8	sec-Butylbenzene	5.2	U	5.2
142-28-9	1,3-Dichloropropane	5.2	U	5.2
156-59-2	cis-1,2-Dichloroethene	2.6	U	2.6
156-60-5	trans-1,2-Dichloroethene	2.6	U	2.6
1634-04-4	Methyl tert-butyl ether	21	U	21
179601-23-1	m-Xylene & p-Xylene	2.6	U	2.6
541-73-1	1,3-Dichlorobenzene	5.2	U	5.2
56-23-5	Carbon tetrachloride	5.2	U	5.2
563-58-6	1,1-Dichloropropene	5.2	U	5.2
591-78-6	2-Hexanone	21	U	21

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1
SDG No.:
Client Sample ID: POST-SO-SB2-30-04042024 | Lab Sample ID: 280-189690-12
Matrix: Solid | Lab File ID: MS12_044406.D
Analysis Method: 8260D | Date Collected: 04/04/2024 12:20
Sample wt/vol: 5.802(g) | Date Analyzed: 04/18/2024 01:18
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 17.9 % Solids: 82.1 | Level: (low/med) Low
Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.2	U	5.2
60-29-7	Ethyl ether	10	U	10
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U	5.2
67-64-1	Acetone	84	U	84
67-66-3	Chloroform	10	U	10
71-43-2	Benzene	5.2	U	5.2
71-55-6	1,1,1-Trichloroethane	5.2	U	5.2
74-83-9	Bromomethane	10	U	10
74-87-3	Chloromethane	10	U	10
74-88-4	Iodomethane	5.2	U	5.2
74-95-3	Dibromomethane	5.2	U	5.2
74-97-5	Chlorobromomethane	5.2	U	5.2
75-00-3	Chloroethane	10	U	10
75-01-4	Vinyl chloride	5.2	U	5.2
75-09-2	Methylene Chloride	5.2	U	5.2
75-15-0	Carbon disulfide	5.2	U	5.2
75-25-2	Bromoform	5.2	U	5.2
75-27-4	Dichlorobromomethane	5.2	U	5.2
75-34-3	1,1-Dichloroethane	5.2	U	5.2
75-35-4	1,1-Dichloroethene	5.2	U	5.2
75-69-4	Trichlorofluoromethane	10	U	10
75-71-8	Dichlorodifluoromethane	10	U	10
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21
78-87-5	1,2-Dichloropropane	5.2	U	5.2
78-93-3	2-Butanone (MEK)	21	U	21
79-00-5	1,1,2-Trichloroethane	5.2	U	5.2
79-01-6	Trichloroethene	5.2	U	5.2
79-20-9	Methyl acetate	10	U	10
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U	5.2
87-61-6	1,2,3-Trichlorobenzene	5.2	U	5.2
87-68-3	Hexachlorobutadiene	5.2	U	5.2
91-20-3	Naphthalene	6.9	U	6.9
95-47-6	o-Xylene	2.6	U	2.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB2-30-04042024 Lab Sample ID: 280-189690-12

Matrix: Solid Lab File ID: MS12_044406.D

Analysis Method: 8260D Date Collected: 04/04/2024 12:20

Sample wt/vol: 5.802(g) Date Analyzed: 04/18/2024 01:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 17.9 % Solids: 82.1 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.2	U	5.2
95-50-1	1,2-Dichlorobenzene	5.2	U	5.2
95-63-6	1,2,4-Trimethylbenzene	5.2	U	5.2
96-12-8	1,2-Dibromo-3-Chloropropane	10	U	10
96-18-4	1,2,3-Trichloropropane	5.2	U	5.2
97-63-2	Ethyl methacrylate	5.2	U	5.2
98-06-6	tert-Butylbenzene	5.2	U	5.2
98-82-8	Isopropylbenzene	5.2	U	5.2
99-87-6	4-Isopropyltoluene	5.2	U	5.2
1330-20-7	Xylenes, Total	5.2	U	5.2
540-59-0	1,2-Dichloroethene, Total	5.2	U	5.2
542-75-6	1,3-Dichloropropene, Total	5.2	U	5.2
STL00209	Trihalomethanes, Total	10	U	10
STL00431	Total BTEX	5.2	U	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		50-140
1868-53-7	Dibromofluoromethane (Surr)	101		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		76-127

FORM 1
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1
SDG No.:
Client Sample ID: DUP-SO-1-04042024 | Lab Sample ID: 280-189690-13
Matrix: Solid | Lab File ID: MS12_044407.D
Analysis Method: 8260D | Date Collected: 04/04/2024 11:00
Sample wt/vol: 5.430(g) | Date Analyzed: 04/18/2024 01:38
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 13.2 % Solids: 86.8 | Level: (low/med) Low
Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.3	U	5.3
100-42-5	Styrene	5.3	U	5.3
10061-01-5	cis-1,3-Dichloropropene	5.3	U	5.3
10061-02-6	trans-1,3-Dichloropropene	5.3	U	5.3
103-65-1	N-Propylbenzene	5.3	U	5.3
104-51-8	n-Butylbenzene	5.3	U	5.3
106-43-4	4-Chlorotoluene	5.3	U	5.3
106-46-7	1,4-Dichlorobenzene	5.3	U	5.3
106-93-4	Ethylene Dibromide	5.3	U	5.3
107-05-1	3-Chloro-1-propene	11	U	11
107-06-2	1,2-Dichloroethane	5.3	U	5.3
108-05-4	Vinyl acetate	11	U	11
108-10-1	4-Methyl-2-pentanone (MIBK)	21	U	21
108-67-8	1,3,5-Trimethylbenzene	5.3	U	5.3
108-86-1	Bromobenzene	5.3	U	5.3
108-87-2	Methylcyclohexane	5.3	U	5.3
108-88-3	Toluene	5.3	U	5.3
108-90-7	Chlorobenzene	5.3	U	5.3
109-99-9	Tetrahydrofuran	21	U	21
110-54-3	Hexane	5.3	U	5.3
110-82-7	Cyclohexane	5.3	U	5.3
120-82-1	1,2,4-Trichlorobenzene	5.3	U	5.3
124-48-1	Chlorodibromomethane	5.3	U	5.3
127-18-4	Tetrachloroethene	5.3	U	5.3
135-98-8	sec-Butylbenzene	5.3	U	5.3
142-28-9	1,3-Dichloropropane	5.3	U	5.3
156-59-2	cis-1,2-Dichloroethene	2.7	U	2.7
156-60-5	trans-1,2-Dichloroethene	2.7	U	2.7
1634-04-4	Methyl tert-butyl ether	21	U	21
179601-23-1	m-Xylene & p-Xylene	2.7	U	2.7
541-73-1	1,3-Dichlorobenzene	5.3	U	5.3
56-23-5	Carbon tetrachloride	5.3	U	5.3
563-58-6	1,1-Dichloropropene	5.3	U	5.3
591-78-6	2-Hexanone	21	U	21

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1
SDG No.:
Client Sample ID: DUP-SO-1-04042024 | Lab Sample ID: 280-189690-13
Matrix: Solid | Lab File ID: MS12_044407.D
Analysis Method: 8260D | Date Collected: 04/04/2024 11:00
Sample wt/vol: 5.430(g) | Date Analyzed: 04/18/2024 01:38
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 13.2 % Solids: 86.8 | Level: (low/med) Low
Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.3	U	5.3
60-29-7	Ethyl ether	11	U	11
630-20-6	1,1,1,2-Tetrachloroethane	5.3	U	5.3
67-64-1	Acetone	220		85
67-66-3	Chloroform	11	U	11
71-43-2	Benzene	5.3	U	5.3
71-55-6	1,1,1-Trichloroethane	5.3	U	5.3
74-83-9	Bromomethane	11	U	11
74-87-3	Chloromethane	11	U	11
74-88-4	Iodomethane	5.3	U	5.3
74-95-3	Dibromomethane	5.3	U	5.3
74-97-5	Chlorobromomethane	5.3	U	5.3
75-00-3	Chloroethane	11	U	11
75-01-4	Vinyl chloride	5.3	U	5.3
75-09-2	Methylene Chloride	5.3	U	5.3
75-15-0	Carbon disulfide	5.3	U	5.3
75-25-2	Bromoform	5.3	U	5.3
75-27-4	Dichlorobromomethane	5.3	U	5.3
75-34-3	1,1-Dichloroethane	5.3	U	5.3
75-35-4	1,1-Dichloroethene	5.3	U	5.3
75-69-4	Trichlorofluoromethane	11	U	11
75-71-8	Dichlorodifluoromethane	11	U	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21
78-87-5	1,2-Dichloropropane	5.3	U	5.3
78-93-3	2-Butanone (MEK)	30		21
79-00-5	1,1,2-Trichloroethane	5.3	U	5.3
79-01-6	Trichloroethene	5.3	U	5.3
79-20-9	Methyl acetate	11	U	11
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U	5.3
87-61-6	1,2,3-Trichlorobenzene	5.3	U	5.3
87-68-3	Hexachlorobutadiene	5.3	U	5.3
91-20-3	Naphthalene	7.0	U	7.0
95-47-6	o-Xylene	2.7	U	2.7

MM 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: DUP-SO-1-04042024 Lab Sample ID: 280-189690-13

Matrix: Solid Lab File ID: MS12_044407.D

Analysis Method: 8260D Date Collected: 04/04/2024 11:00

Sample wt/vol: 5.430(g) Date Analyzed: 04/18/2024 01:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 13.2 % Solids: 86.8 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-49-8	2-Chlorotoluene	5.3	U	5.3	
95-50-1	1,2-Dichlorobenzene	5.3	U	5.3	
95-63-6	1,2,4-Trimethylbenzene	5.3	U	5.3	
96-12-8	1,2-Dibromo-3-Chloropropane	11	U	11	
96-18-4	1,2,3-Trichloropropane	5.3	U	5.3	
97-63-2	Ethyl methacrylate	5.3	U	5.3	
98-06-6	tert-Butylbenzene	5.3	U	5.3	
98-82-8	Isopropylbenzene	5.3	U	5.3	
99-87-6	4-Isopropyltoluene	5.3	U	5.3	
1330-20-7	Xylenes, Total	5.3	U	5.3	
540-59-0	1,2-Dichloroethene, Total	5.3	U	5.3	
542-75-6	1,3-Dichloropropene, Total	5.3	U	5.3	
STL00209	Trihalomethanes, Total	11	U	11	
STL00431	Total BTEX	5.3	U	5.3	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		58-140
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB1-05-04042024 | Lab Sample ID: 280-189690-14

Matrix: Solid | Lab File ID: MS12_044408.D

Analysis Method: 8260D | Date Collected: 04/04/2024 13:25

Sample wt/vol: 5.550(g) | Date Analyzed: 04/18/2024 01:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 15.3 % Solids: 84.7 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.3	U	5.3
100-42-5	Styrene	5.3	U	5.3
10061-01-5	cis-1,3-Dichloropropene	5.3	U	5.3
10061-02-6	trans-1,3-Dichloropropene	5.3	U	5.3
103-65-1	N-Propylbenzene	5.3	U	5.3
104-51-8	n-Butylbenzene	5.3	U	5.3
106-43-4	4-Chlorotoluene	5.3	U	5.3
106-46-7	1,4-Dichlorobenzene	5.3	U	5.3
106-93-4	Ethylene Dibromide	5.3	U	5.3
107-05-1	3-Chloro-1-propene	11	U	11
107-06-2	1,2-Dichloroethane	5.3	U	5.3
108-05-4	Vinyl acetate	11	U	11
108-10-1	4-Methyl-2-pentanone (MIBK)	21	U	21
108-67-8	1,3,5-Trimethylbenzene	5.3	U	5.3
108-86-1	Bromobenzene	5.3	U	5.3
108-87-2	Methylcyclohexane	5.3	U	5.3
108-88-3	Toluene	5.3	U	5.3
108-90-7	Chlorobenzene	5.3	U	5.3
109-99-9	Tetrahydrofuran	21	U	21
110-54-3	Hexane	5.3	U	5.3
110-82-7	Cyclohexane	5.3	U	5.3
120-82-1	1,2,4-Trichlorobenzene	5.3	U	5.3
124-48-1	Chlorodibromomethane	5.3	U	5.3
127-18-4	Tetrachloroethene	5.3	U	5.3
135-98-8	sec-Butylbenzene	5.3	U	5.3
142-28-9	1,3-Dichloropropane	5.3	U	5.3
156-59-2	cis-1,2-Dichloroethene	2.7	U	2.7
156-60-5	trans-1,2-Dichloroethene	2.7	U	2.7
1634-04-4	Methyl tert-butyl ether	21	U	21
179601-23-1	m-Xylene & p-Xylene	2.7	U	2.7
541-73-1	1,3-Dichlorobenzene	5.3	U	5.3
56-23-5	Carbon tetrachloride	5.3	U	5.3
563-58-6	1,1-Dichloropropene	5.3	U	5.3
591-78-6	2-Hexanone	21	U	21

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB1-05-04042024 | Lab Sample ID: 280-189690-14

Matrix: Solid | Lab File ID: MS12 044408.D

Analysis Method: 8260D | Date Collected: 04/04/2024 13:25

Sample wt/vol: 5.550(g) | Date Analyzed: 04/18/2024 01:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 15.3 % Solids: 84.7 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.3	U	5.3
60-29-7	Ethyl ether	11	U	11
630-20-6	1,1,1,2-Tetrachloroethane	5.3	U	5.3
67-64-1	Acetone	85	U	85
67-66-3	Chloroform	11	U	11
71-43-2	Benzene	5.3	U	5.3
71-55-6	1,1,1-Trichloroethane	5.3	U	5.3
74-83-9	Bromomethane	11	U	11
74-87-3	Chloromethane	11	U	11
74-88-4	Iodomethane	5.3	U	5.3
74-95-3	Dibromomethane	5.3	U	5.3
74-97-5	Chlorobromomethane	5.3	U	5.3
75-00-3	Chloroethane	11	U	11
75-01-4	Vinyl chloride	5.3	U	5.3
75-09-2	Methylene Chloride	5.3	U	5.3
75-15-0	Carbon disulfide	5.3	U	5.3
75-25-2	Bromoform	5.3	U	5.3
75-27-4	Dichlorobromomethane	5.3	U	5.3
75-34-3	1,1-Dichloroethane	5.3	U	5.3
75-35-4	1,1-Dichloroethene	5.3	U	5.3
75-69-4	Trichlorofluoromethane	11	U	11
75-71-8	Dichlorodifluoromethane	11	U	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21
78-87-5	1,2-Dichloropropane	5.3	U	5.3
78-93-3	2-Butanone (MEK)	21	U	21
79-00-5	1,1,2-Trichloroethane	5.3	U	5.3
79-01-6	Trichloroethene	5.3	U	5.3
79-20-9	Methyl acetate	11	U	11
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U	5.3
87-61-6	1,2,3-Trichlorobenzene	5.3	U	5.3
87-68-3	Hexachlorobutadiene	5.3	U	5.3
91-20-3	Naphthalene	7.0	U	7.0
95-47-6	o-Xylene	2.7	U	2.7

MT 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB1-05-04042024 Lab Sample ID: 280-189690-14

Matrix: Solid Lab File ID: MS12_044408.D

Analysis Method: 8260D Date Collected: 04/04/2024 13:25

Sample wt/vol: 5.550(g) Date Analyzed: 04/18/2024 01:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 15.3 % Solids: 84.7 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.3	U	5.3
95-50-1	1,2-Dichlorobenzene	5.3	U	5.3
95-63-6	1,2,4-Trimethylbenzene	5.3	U	5.3
96-12-8	1,2-Dibromo-3-Chloropropane	11	U	11
96-18-4	1,2,3-Trichloropropane	5.3	U	5.3
97-63-2	Ethyl methacrylate	5.3	U	5.3
98-06-6	tert-Butylbenzene	5.3	U	5.3
98-82-8	Isopropylbenzene	5.3	U	5.3
99-87-6	4-Isopropyltoluene	5.3	U	5.3
1330-20-7	Xylenes, Total	5.3	U	5.3
540-59-0	1,2-Dichloroethene, Total	5.3	U	5.3
542-75-6	1,3-Dichloropropene, Total	5.3	U	5.3
9TL00209	Trihalomethanes, Total	11	U	11
9TL00431	Total BTEX	5.3	U	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		58-140
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1
SDG No.:
Client Sample ID: POST-SO-SB1-10-04042024 Lab Sample ID: 280-189690-15
Matrix: Solid Lab File ID: MS12_044409.D
Analysis Method: 8260D Date Collected: 04/04/2024 13:30
Sample wt/vol: 4.649(g) Date Analyzed: 04/18/2024 02:17
Soil Aliquot Vol: Dilution Factor: 1
Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:
% Moisture: 16.3 % Solids: 83.7 Level: (low/med) Low
Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	6.4	U F1 P2	6.4
100-42-5	Styrene	6.4	U F1 P2	6.4
10061-01-5	cis-1,3-Dichloropropene	6.4	U F1 P2	6.4
10061-02-6	trans-1,3-Dichloropropene	6.4	U F1 P2	6.4
103-65-1	N-Propylbenzene	6.4	U F1 P2	6.4
104-51-8	n-Butylbenzene	6.4	U F1 P2	6.4
106-43-4	4-Chlorotoluene	6.4	U F1 P2	6.4
106-46-7	1,4-Dichlorobenzene	6.4	U F1 P2	6.4
106-93-4	Ethylene Dibromide	6.4	U F1 P2	6.4
107-05-1	3-Chloro-1-propene	13	U F1 P2	13
107-06-2	1,2-Dichloroethane	6.4	U F1 P2	6.4
108-05-4	Vinyl acetate	13	U F1 P2	13
108-10-1	4-Methyl-2-pentanone (MIBK)	26	U F1 P2	26
108-67-8	1,3,5-Trimethylbenzene	6.4	U F1 P2	6.4
108-86-1	Bromobenzene	6.4	U F1 P2	6.4
108-87-2	Methylcyclohexane	6.4	U F1 P2	6.4
108-88-3	Toluene	6.4	U F1 P2	6.4
108-90-7	Chlorobenzene	6.4	U F1 P2	6.4
109-99-9	Tetrahydrofuran	26	U F1 P2	26
110-54-3	Hexane	6.4	U F1 P2	6.4
110-82-7	Cyclohexane	6.4	U F1 P2	6.4

MS/MSD

NM 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB1-10-04042024 Lab Sample ID: 280-189690-15

Matrix: Solid Lab File ID: MS12_044409.D

Analysis Method: 8260D Date Collected: 04/04/2024 13:30

Sample wt/vol: 4.649(g) Date Analyzed: 04/18/2024 02:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 16.3 % Solids: 83.7 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
120-82-1	1,2,4-Trichlorobenzene	6.4	U	6.4	MS/MSD
124-48-1	Chlorodibromomethane	6.4	U	6.4	
127-18-4	Tetrachloroethene	6.4	U	6.4	
135-98-8	sec-Butylbenzene	6.4	U	6.4	
142-28-9	1,3-Dichloropropane	6.4	U	6.4	
156-59-2	cis-1,2-Dichloroethene	3.2	U	3.2	
156-60-5	trans-1,2-Dichloroethene	3.2	U	3.2	
1634-04-4	Methyl tert-butyl ether	26	U	26	
179601-23-1	m-Xylene & p-Xylene	3.2	U	3.2	
541-73-1	1,3-Dichlorobenzene	6.4	U	6.4	
56-23-5	Carbon tetrachloride	6.4	U	6.4	
563-58-6	1,1-Dichloropropene	6.4	U	6.4	
591-78-6	2-Hexanone	26	U	26	
594-20-7	2,2-Dichloropropane	6.4	U	6.4	
60-29-7	Ethyl ether	13	U	13	
630-20-6	1,1,1,2-Tetrachloroethane	6.4	U	6.4	
67-64-1	Acetone	100	U	100	
67-66-3	Chloroform	13	U	13	
71-43-2	Benzene	6.4	U	6.4	
71-55-6	1,1,1-Trichloroethane	6.4	U	6.4	
74-83-9	Bromomethane	13	U	13	

MS 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB1-10-04042024 | Lab Sample ID: 280-189690-15

Matrix: Solid | Lab File ID: MS12_044409.D

Analysis Method: 8260D | Date Collected: 04/04/2024 13:30

Sample wt/vol: 4.649(g) | Date Analyzed: 04/18/2024 02:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 16.3 % Solids: 83.7 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
74-87-3	Chloromethane	13	U	13
74-88-4	Iodomethane	6.4	U	6.4
74-95-3	Dibromomethane	6.4	U	6.4
74-97-5	Chlorobromomethane	6.4	U	6.4
75-00-3	Chloroethane	13	U	13
75-01-4	Vinyl chloride	6.4	U	6.4
75-09-2	Methylene Chloride	6.4	U	6.4
75-15-0	Carbon disulfide	6.4	U	6.4
75-25-2	Bromoform	6.4	U	6.4
75-27-4	Dichlorobromomethane	6.4	U	6.4
75-34-3	1,1-Dichloroethane	6.4	U	6.4
75-35-4	1,1-Dichloroethene	6.4	U	6.4
75-69-4	Trichlorofluoromethane	13	U	13
75-71-8	Dichlorodifluoromethane	13	U	13
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26	U	26
78-87-5	1,2-Dichloropropane	6.4	U	6.4
78-93-3	2-Butanone (MEK)	26	U	26
79-00-5	1,1,2-Trichloroethane	6.4	U	6.4
79-01-6	Trichloroethene	6.4	U	6.4
79-20-9	Methyl acetate	13	U	13
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U	6.4
87-61-6	1,2,3-Trichlorobenzene	6.4	U	6.4
87-68-3	Hexachlorobutadiene	6.4	U	6.4

ug/kg

MT 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB1-10-04042024 | Lab Sample ID: 280-189690-15

Matrix: Solid | Lab File ID: MS12_044409.D

Analysis Method: 8260D | Date Collected: 04/04/2024 13:30

Sample wt/vol: 4.649(g) | Date Analyzed: 04/18/2024 02:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 16.3 % Solids: 83.7 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
91-20-3	Naphthalene	8.5	U P1 P2	8.5	MS/MSD
95-47-6	o-Xylene	3.2	J P1 P2	3.2	
95-49-8	2-Chlorotoluene	6.4	U P1 P2	6.4	
95-50-1	1,2-Dichlorobenzene	6.4	U P1 P2	6.4	
95-63-6	1,2,4-Trimethylbenzene	6.4	U P1 P2	6.4	
96-12-8	1,2-Dibromo-3-Chloropropane	13	U P1 P2	13	
96-18-4	1,2,3-Trichloropropane	6.4	U P1 P2	6.4	
97-63-2	Ethyl methacrylate	6.4	U P1 P2	6.4	
98-06-6	tert-Butylbenzene	6.4	U P1 P2	6.4	
98-82-8	Isopropylbenzene	6.4	U P1 P2	6.4	
99-87-6	4-Isopropyltoluene	6.4	U P1 P2	6.4	
1330-20-7	Xylenes, Total	6.4	U P1 P2	6.4	
540-59-0	1,2-Dichloroethene, Total	6.4	U P1 P2	6.4	
542-75-6	1,3-Dichloropropene, Total	6.4	U P1 P2	6.4	
STL00209	Trihalomethanes, Total	13	U P1 P2	13	
STL00431	Total BTEX	6.4	U P1 P2	6.4	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		58-140
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		76-127

MT 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB1-15-04042024 Lab Sample ID: 280-189690-16

Matrix: Solid Lab File ID: MS12_044410.D

Analysis Method: 8260D Date Collected: 04/04/2024 13:35

Sample wt/vol: 5.580(g) Date Analyzed: 04/18/2024 02:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 13.4 % Solids: 86.6 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.2	U	5.2
100-42-5	Styrene	5.2	U	5.2
10061-01-5	cis-1,3-Dichloropropene	5.2	U	5.2
10061-02-6	trans-1,3-Dichloropropene	5.2	U	5.2
103-65-1	N-Propylbenzene	5.2	U	5.2
104-51-8	n-Butylbenzene	5.2	U	5.2
106-43-4	4-Chlorotoluene	5.2	U	5.2
106-46-7	1,4-Dichlorobenzene	5.2	U	5.2
106-93-4	Ethylene Dibromide	5.2	U	5.2
107-05-1	3-Chloro-1-propene	10	U	10
107-06-2	1,2-Dichloroethane	5.2	U	5.2
108-05-4	Vinyl acetate	10	U	10
108-10-1	4-Methyl-2-pentanone (MIBK)	21	U	21
108-67-8	1,3,5-Trimethylbenzene	5.2	U	5.2
108-86-1	Bromobenzene	5.2	U	5.2
108-87-2	Methylcyclohexane	5.2	U	5.2
108-88-3	Toluene	5.2	U	5.2
108-90-7	Chlorobenzene	5.2	U	5.2
109-99-9	Tetrahydrofuran	21	U	21
110-54-3	Hexane	5.2	U	5.2
110-82-7	Cyclohexane	5.2	U	5.2
120-82-1	1,2,4-Trichlorobenzene	5.2	U	5.2
124-48-1	Chlorodibromomethane	5.2	U	5.2
127-18-4	Tetrachloroethene	5.2	U	5.2
135-98-8	sec-Butylbenzene	5.2	U	5.2
142-28-9	1,3-Dichloropropane	5.2	U	5.2
156-59-2	cis-1,2-Dichloroethene	2.6	U	2.6
156-60-5	trans-1,2-Dichloroethene	2.6	U	2.6
1634-04-4	Methyl tert-butyl ether	21	U	21
179601-23-1	m-Xylene & p-Xylene	2.6	U	2.6
541-73-1	1,3-Dichlorobenzene	5.2	U	5.2
56-23-5	Carbon tetrachloride	5.2	U	5.2
563-58-6	1,1-Dichloropropene	5.2	U	5.2
591-78-6	2-Hexanone	21	U	21

FORM I 8260D

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB1-15-04042024 | Lab Sample ID: 280-189690-16

Matrix: Solid | Lab File ID: MS12_044410.D

Analysis Method: 8260D | Date Collected: 04/04/2024 13:35

Sample wt/vol: 5.580(g) | Date Analyzed: 04/18/2024 02:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 13.4 % Solids: 86.6 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.2	U	5.2
60-29-7	Ethyl ether	10	U	10
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U	5.2
67-64-1	Acetone	83	U	83
67-66-3	Chloroform	10	U	10
71-43-2	Benzene	5.2	U	5.2
71-55-6	1,1,1-Trichloroethane	5.2	U	5.2
74-83-9	Bromomethane	10	U	10
74-87-3	Chloromethane	10	U	10
74-88-4	Iodomethane	5.2	U	5.2
74-95-3	Dibromomethane	5.2	U	5.2
74-97-5	Chlorobromomethane	5.2	U	5.2
75-00-3	Chloroethane	10	U	10
75-01-4	Vinyl chloride	5.2	U	5.2
75-09-2	Methylene Chloride	5.2	U	5.2
75-15-0	Carbon disulfide	5.2	U	5.2
75-25-2	Bromoform	5.2	U	5.2
75-27-4	Dichlorobromomethane	5.2	U	5.2
75-34-3	1,1-Dichloroethane	5.2	U	5.2
75-35-4	1,1-Dichloroethene	5.2	U	5.2
75-69-4	Trichlorofluoromethane	10	U	10
75-71-8	Dichlorodifluoromethane	10	U	10
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21
78-87-5	1,2-Dichloropropane	5.2	U	5.2
78-93-3	2-Butanone (MEK)	21	U	21
79-00-5	1,1,2-Trichloroethane	5.2	U	5.2
79-01-6	Trichloroethene	5.2	U	5.2
79-20-9	Methyl acetate	10	U	10
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U	5.2
87-61-6	1,2,3-Trichlorobenzene	5.2	U	5.2
87-68-3	Hexachlorobutadiene	5.2	U	5.2
91-20-3	Naphthalene	6.8	U	6.8
95-47-6	o-Xylene	2.6	U	2.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1
SDG No.:
Client Sample ID: POST-SO-SB1-15-04042024 Lab Sample ID: 280-189690-16
Matrix: Solid Lab File ID: MS12_044410.D
Analysis Method: 8260D Date Collected: 04/04/2024 13:35
Sample wt/vol: 5.580(g) Date Analyzed: 04/18/2024 02:37
Soil Aliquot Vol: Dilution Factor: 1
Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:
% Moisture: 13.4 % Solids: 86.6 Level: (low/med) Low
Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.2	U	5.2
95-50-1	1,2-Dichlorobenzene	5.2	U	5.2
95-63-6	1,2,4-Trimethylbenzene	5.2	U	5.2
96-12-8	1,2-Dibromo-3-Chloropropane	10	U	10
96-18-4	1,2,3-Trichloropropane	5.2	U	5.2
97-63-2	Ethyl methacrylate	5.2	U	5.2
98-06-6	tert-Butylbenzene	5.2	U	5.2
98-82-8	Isopropylbenzene	5.2	U	5.2
99-87-6	4-Isopropyltoluene	5.2	U	5.2
1330-20-7	Xylenes, Total	5.2	U	5.2
540-59-0	1,2-Dichloroethene, Total	5.2	U	5.2
542-75-6	1,3-Dichloropropene, Total	5.2	U	5.2
STL00209	Trihalomethanes, Total	10	U	10
STL00431	Total BTEX	5.2	U	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		58-140
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
2037-26-5	Toluene-d8 (Surr)	98		80-126
460-00-4	4-Bromofluorobenzene (Surr)	101		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB1-20-04042024 Lab Sample ID: 280-189690-17

Matrix: Solid Lab File ID: MS12_044411.D

Analysis Method: 8260D Date Collected: 04/04/2024 13:40

Sample wt/vol: 5.680(g) Date Analyzed: 04/18/2024 02:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 14.7 % Solids: 85.3 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.2	U	5.2
100-42-5	Styrene	5.2	U	5.2
10061-01-5	cis-1,3-Dichloropropene	5.2	U	5.2
10061-02-6	trans-1,3-Dichloropropene	5.2	U	5.2
103-65-1	N-Propylbenzene	5.2	U	5.2
104-51-8	n-Butylbenzene	5.2	U	5.2
106-43-4	4-Chlorotoluene	5.2	U	5.2
106-46-7	1,4-Dichlorobenzene	5.2	U	5.2
106-93-4	Ethylene Dibromide	5.2	U	5.2
107-05-1	3-Chloro-1-propene	10	U	10
107-06-2	1,2-Dichloroethane	5.2	U	5.2
108-05-4	Vinyl acetate	10	U	10
108-10-1	4-Methyl-2-pentanone (MIBK)	21	U	21
108-67-8	1,3,5-Trimethylbenzene	5.2	U	5.2
108-86-1	Bromobenzene	5.2	U	5.2
108-87-2	Methylcyclohexane	5.2	U	5.2
108-88-3	Toluene	5.2	U	5.2
108-90-7	Chlorobenzene	5.2	U	5.2
109-99-9	Tetrahydrofuran	21	U	21
110-54-3	Hexane	5.2	U	5.2
110-82-7	Cyclohexane	5.2	U	5.2
120-82-1	1,2,4-Trichlorobenzene	5.2	U	5.2
124-48-1	Chlorodibromomethane	5.2	U	5.2
127-18-4	Tetrachloroethene	5.2	U	5.2
135-98-8	sec-Butylbenzene	5.2	U	5.2
142-28-9	1,3-Dichloropropane	5.2	U	5.2
156-59-2	cis-1,2-Dichloroethene	2.6	U	2.6
156-60-5	trans-1,2-Dichloroethene	2.6	U	2.6
1634-04-4	Methyl tert-butyl ether	21	U	21
179601-23-1	m-Xylene & p-Xylene	2.6	U	2.6
541-73-1	1,3-Dichlorobenzene	5.2	U	5.2
56-23-5	Carbon tetrachloride	5.2	U	5.2
563-58-6	1,1-Dichloropropene	5.2	U	5.2
591-78-6	2-Hexanone	21	U	21

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB1-20-04042024 Lab Sample ID: 280-189690-17

Matrix: Solid Lab File ID: MS12_044411.D

Analysis Method: 8260D Date Collected: 04/04/2024 13:40

Sample wt/vol: 5.680(g) Date Analyzed: 04/18/2024 02:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 14.7 % Solids: 85.3 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.2	U	5.2
60-29-7	Ethyl ether	10	U	10
630-20-6	1,1,1,2-Tetrachloroethane	5.2	U	5.2
67-64-1	Acetone	120		83
67-66-3	Chloroform	10	U	10
71-43-2	Benzene	5.2	U	5.2
71-55-6	1,1,1-Trichloroethane	5.2	U	5.2
74-83-9	Bromomethane	10	U	10
74-87-3	Chloromethane	10	U	10
74-88-4	Iodomethane	5.2	U	5.2
74-95-3	Dibromomethane	5.2	U	5.2
74-97-5	Chlorobromomethane	5.2	U	5.2
75-00-3	Chloroethane	10	U	10
75-01-4	Vinyl chloride	5.2	U	5.2
75-09-2	Methylene Chloride	5.2	U	5.2
75-15-0	Carbon disulfide	5.2	U	5.2
75-25-2	Bromoform	5.2	U	5.2
75-27-4	Dichlorobromomethane	5.2	U	5.2
75-34-3	1,1-Dichloroethane	5.2	U	5.2
75-35-4	1,1-Dichloroethene	5.2	U	5.2
75-69-4	Trichlorofluoromethane	10	U	10
75-71-8	Dichlorodifluoromethane	10	U	10
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21
78-87-5	1,2-Dichloropropane	5.2	U	5.2
78-93-3	2-Butanone (MEK)	21	U	21
79-00-5	1,1,2-Trichloroethane	5.2	U	5.2
79-01-6	Trichloroethene	5.2	U	5.2
79-20-9	Methyl acetate	10	U	10
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U	5.2
87-61-6	1,2,3-Trichlorobenzene	5.2	U	5.2
87-68-3	Hexachlorobutadiene	5.2	U	5.2
91-20-3	Naphthalene	6.8	U	6.8
95-47-6	o-Xylene	2.6	U	2.6

MM 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB1-20-04042024 | Lab Sample ID: 280-189690-17

Matrix: Solid | Lab File ID: MS12_044411.D

Analysis Method: 8260D | Date Collected: 04/04/2024 13:40

Sample wt/vol: 5.680(g) | Date Analyzed: 04/18/2024 02:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.7 % Solids: 85.3 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.2	U	5.2
95-50-1	1,2-Dichlorobenzene	5.2	U	5.2
95-63-6	1,2,4-Trimethylbenzene	5.2	U	5.2
96-12-8	1,2-Dibromo-3-Chloropropane	10	U	10
96-18-4	1,2,3-Trichloropropane	5.2	U	5.2
97-63-2	Ethyl methacrylate	5.2	U	5.2
98-06-6	tert-Butylbenzene	5.2	U	5.2
98-82-8	Isopropylbenzene	5.2	U	5.2
99-87-6	4-Isopropyltoluene	5.2	U	5.2
1330-20-7	Xylenes, Total	5.2	U	5.2
540-59-0	1,2-Dichloroethene, Total	5.2	U	5.2
542-75-6	1,3-Dichloropropene, Total	5.2	U	5.2
STL00209	Trihalomethanes, Total	10	U	10
STL00431	Total BTEX	5.2	U	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		58-140
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
2037-26-5	Toluene-d8 (Surr)	98		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-03-04042024 Lab Sample ID: 280-189690-18

Matrix: Solid Lab File ID: MS12_044412.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:00

Sample wt/vol: 4.787(g) Date Analyzed: 04/18/2024 03:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 20.3 % Solids: 79.7 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	6.6	U	6.6
100-42-5	Styrene	6.6	U	6.6
10061-01-5	cis-1,3-Dichloropropene	6.6	U	6.6
10061-02-6	trans-1,3-Dichloropropene	6.6	U	6.6
103-65-1	N-Propylbenzene	6.6	U	6.6
104-51-8	n-Butylbenzene	6.6	U	6.6
106-43-4	4-Chlorotoluene	6.6	U	6.6
106-46-7	1,4-Dichlorobenzene	6.6	U	6.6
106-93-4	Ethylene Dibromide	6.6	U	6.6
107-05-1	3-Chloro-1-propene	13	U	13
107-06-2	1,2-Dichloroethane	6.6	U	6.6
108-05-4	Vinyl acetate	13	U	13
108-10-1	4-Methyl-2-pentanone (MIBK)	26	U	26
108-67-8	1,3,5-Trimethylbenzene	6.6	U	6.6
108-86-1	Bromobenzene	6.6	U	6.6
108-87-2	Methylcyclohexane	6.6	U	6.6
108-88-3	Toluene	6.6	U	6.6
108-90-7	Chlorobenzene	6.6	U	6.6
109-99-9	Tetrahydrofuran	26	U	26
110-54-3	Hexane	6.6	U	6.6
110-82-7	Cyclohexane	6.6	U	6.6
120-82-1	1,2,4-Trichlorobenzene	6.6	U	6.6
124-48-1	Chlorodibromomethane	6.6	U	6.6
127-18-4	Tetrachloroethene	6.6	U	6.6
135-98-8	sec-Butylbenzene	6.6	U	6.6
142-28-9	1,3-Dichloropropane	6.6	U	6.6
156-59-2	cis-1,2-Dichloroethene	3.3	U	3.3
156-60-5	trans-1,2-Dichloroethene	3.3	U	3.3
1634-04-4	Methyl tert-butyl ether	26	U	26
179601-23-1	m-Xylene & p-Xylene	3.3	U	3.3
541-73-1	1,3-Dichlorobenzene	6.6	U	6.6
56-23-5	Carbon tetrachloride	6.6	U	6.6
563-58-6	1,1-Dichloropropene	6.6	U	6.6
591-78-6	2-Hexanone	26	U	26

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-05-04042024 Lab Sample ID: 280-189690-18

Matrix: Solid Lab File ID: MS12_044412.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:00

Sample wt/vol: 4.787(g) Date Analyzed: 04/18/2024 03:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 20.3 % Solids: 79.7 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	6.6	U	6.6
60-29-7	Ethyl ether	13	U	13
630-20-6	1,1,1,2-Tetrachloroethane	6.6	U	6.6
67-64-1	Acetone	100	U	100
67-66-3	Chloroform	13	U	13
71-43-2	Benzene	6.6	U	6.6
71-55-6	1,1,1-Trichloroethane	6.6	U	6.6
74-83-9	Bromomethane	13	U	13
74-87-3	Chloromethane	13	U	13
74-88-4	Iodomethane	6.6	U	6.6
74-95-3	Dibromomethane	6.6	U	6.6
74-97-5	Chlorobromomethane	6.6	U	6.6
75-00-3	Chloroethane	13	U	13
75-01-4	Vinyl chloride	6.6	U	6.6
75-09-2	Methylene Chloride	6.6	U	6.6
75-15-0	Carbon disulfide	6.6	U	6.6
75-25-2	Bromoform	6.6	U	6.6
75-27-4	Dichlorobromomethane	6.6	U	6.6
75-34-3	1,1-Dichloroethane	6.6	U	6.6
75-35-4	1,1-Dichloroethene	6.6	U	6.6
75-69-4	Trichlorofluoromethane	13	U	13
75-71-8	Dichlorodifluoromethane	13	U	13
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26	U	26
78-87-5	1,2-Dichloropropane	6.6	U	6.6
78-93-3	2-Butanone (MEK)	26	U	26
79-00-5	1,1,2-Trichloroethane	6.6	U	6.6
79-01-6	Trichloroethene	6.6	U	6.6
79-20-9	Methyl acetate	13	U	13
79-34-5	1,1,2,2-Tetrachloroethane	6.6	U	6.6
87-61-6	1,2,3-Trichlorobenzene	6.6	U	6.6
87-68-3	Hexachlorobutadiene	6.6	U	6.6
91-20-3	Naphthalene	8.6	U	8.6
95-47-6	o-Xylene	3.3	U	3.3

MF 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-05-04042024 Lab Sample ID: 280-189690-18

Matrix: Solid Lab File ID: MS12_044412.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:00

Sample wt/vol: 4.787(g) Date Analyzed: 04/18/2024 03:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 20.3 % Solids: 79.7 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	6.6	U	6.6
95-50-1	1,2-Dichlorobenzene	6.6	U	6.6
95-63-6	1,2,4-Trimethylbenzene	6.6	U	6.6
96-12-8	1,2-Dibromo-3-Chloropropane	13	U	13
96-18-4	1,2,3-Trichloropropane	6.6	U	6.6
97-63-2	Ethyl methacrylate	6.6	U	6.6
98-06-6	tert-Butylbenzene	6.6	U	6.6
98-82-8	Isopropylbenzene	6.6	U	6.6
99-87-6	4-Isopropyltoluene	6.6	U	6.6
1330-20-7	Xylenes, Total	6.6	U	6.6
540-59-0	1,2-Dichloroethene, Total	6.6	U	6.6
542-75-6	1,3-Dichloropropene, Total	6.6	U	6.6
STL00209	Trihalomethanes, Total	13	U	13
STL00431	Total BTEX	6.6	U	6.6

CAS NO	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		58-140
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1
SDG No.:
Client Sample ID: POST-SO-SB3-10-04042024 | Lab Sample ID: 280-189690-19
Matrix: Solid | Lab File ID: MS12_044413.D
Analysis Method: 8260D | Date Collected: 04/04/2024 15:05
Sample wt/vol: 5.334(g) | Date Analyzed: 04/18/2024 03:36
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 15.1 % Solids: 84.8 | Level: (low/med) Low
Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.5	U	5.5
100-42-5	Styrene	5.5	U	5.5
10061-01-5	cis-1,3-Dichloropropene	5.5	U	5.5
10061-02-6	trans-1,3-Dichloropropene	5.5	U	5.5
103-65-1	N-Propylbenzene	5.5	U	5.5
104-51-8	n-Butylbenzene	5.5	U	5.5
106-43-4	4-Chlorotoluene	5.5	U	5.5
106-46-7	1,4-Dichlorobenzene	5.5	U	5.5
106-93-4	Ethylene Dibromide	5.5	U	5.5
107-05-1	3-Chloro-1-propene	11	U	11
107-06-2	1,2-Dichloroethane	5.5	U	5.5
108-05-4	Vinyl acetate	11	U	11
108-10-1	4-Methyl-2-pentanone (MIBK)	22	U	22
108-67-8	1,3,5-Trimethylbenzene	5.5	U	5.5
108-86-1	Bromobenzene	5.5	U	5.5
108-87-2	Methylcyclohexane	5.5	U	5.5
108-88-3	Toluene	5.5	U	5.5
108-90-7	Chlorobenzene	5.5	U	5.5
109-99-9	Tetrahydrofuran	22	U	22
110-54-3	Hexane	5.5	U	5.5
110-82-7	Cyclohexane	5.5	U	5.5
120-82-1	1,2,4-Trichlorobenzene	5.5	U	5.5
124-48-1	Chlorodibromomethane	5.5	U	5.5
127-18-4	Tetrachloroethene	5.5	U	5.5
135-98-8	sec-Butylbenzene	5.5	U	5.5
142-28-9	1,3-Dichloropropane	5.5	U	5.5
156-59-2	cis-1,2-Dichloroethene	2.8	U	2.8
156-60-5	trans-1,2-Dichloroethene	2.8	U	2.8
1634-04-4	Methyl tert-butyl ether	22	U	22
179601-23-1	m-Xylene & p-Xylene	2.8	U	2.8
541-73-1	1,3-Dichlorobenzene	5.5	U	5.5
56-23-5	Carbon tetrachloride	5.5	U	5.5
563-58-6	1,1-Dichloropropene	5.5	U	5.5
591-78-6	2-Hexanone	22	U	22

MT 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-10-04042024 Lab Sample ID: 280-189690-19

Matrix: Solid Lab File ID: MS12_044413.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:05

Sample wt/vol: 5.334(g) Date Analyzed: 04/18/2024 03:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 15.1 % Solids: 84.8 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
594-20-7	2,2-Dichloropropane	5.5	U	5.5	
60-29-7	Ethyl ether	11	U	11	
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U	5.5	
67-64-1	Acetone	88	U	88	
67-66-3	Chloroform	11	U	11	
71-43-2	Benzene	5.5	U	5.5	
71-55-6	1,1,1-Trichloroethane	5.5	U	5.5	
74-83-9	Bromomethane	11	U	11	
74-87-3	Chloromethane	11	U	11	
74-88-4	Iodomethane	5.5	U	5.5	
74-95-3	Dibromomethane	5.5	U	5.5	
74-97-5	Chlorobromomethane	5.5	U	5.5	
75-00-3	Chloroethane	11	U	11	
75-01-4	Vinyl chloride	5.5	U	5.5	
75-09-2	Methylene Chloride	5.5	U	5.5	
75-15-0	Carbon disulfide	5.5	U	5.5	
75-25-2	Bromoform	5.5	U	5.5	
75-27-4	Dichlorobromomethane	5.5	U	5.5	
75-34-3	1,1-Dichloroethane	5.5	U	5.5	
75-35-4	1,1-Dichloroethene	5.5	U	5.5	
75-69-4	Trichlorofluoromethane	11	U	11	
75-71-8	Dichlorodifluoromethane	11	U	11	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22	
78-87-5	1,2-Dichloropropane	5.5	U	5.5	
78-93-3	2-Butanone (MEK)	22	U	22	
79-00-5	1,1,2-Trichloroethane	5.5	U	5.5	
79-01-6	Trichloroethene	5.5	U	5.5	
79-20-9	Methyl acetate	11	U	11	
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U	5.5	
87-61-6	1,2,3-Trichlorobenzene	5.5	U	5.5	
87-68-3	Hexachlorobutadiene	5.5	U	5.5	
91-20-3	Naphthalene	7.3	U	7.3	
95-47-6	o-Xylene	2.8	U	2.8	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-10-04042024 | Lab Sample ID: 280-189690-19

Matrix: Solid | Lab File ID: MS12_044413.D

Analysis Method: 8260D | Date Collected: 04/04/2024 15:05

Sample wt/vol: 5.334(g) | Date Analyzed: 04/18/2024 03:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 15.1 % Solids: 84.8 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.5	U	5.5
95-50-1	1,2-Dichlorobenzene	5.5	U	5.5
95-63-6	1,2,4-Trimethylbenzene	5.5	U	5.5
96-12-8	1,2-Dibromo-3-Chloropropane	11	U	11
96-18-4	1,2,3-Trichloropropane	5.5	U	5.5
97-63-2	Ethyl methacrylate	5.5	U	5.5
98-06-6	tert-Butylbenzene	5.5	U	5.5
98-82-8	Isopropylbenzene	5.5	U	5.5
99-87-6	4-Isopropyltoluene	5.5	U	5.5
1330-20-7	Xylenes, Total	5.5	U	5.5
540-59-0	1,2-Dichloroethene, Total	5.5	U	5.5
542-75-6	1,3-Dichloropropene, Total	5.5	U	5.5
STL00209	Trihalomethanes, Total	11	U	11
STL00431	Total BTEX	5.5	U	5.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		58-140
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
2037-26-5	Toluene-d8 (Surr)	97		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-15-04042024 Lab Sample ID: 280-189690-20

Matrix: Solid Lab File ID: MS12_044414.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:10

Sample wt/vol: 5.005(g) Date Analyzed: 04/18/2024 03:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 14.1 % Solids: 85.9 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.8	U	5.8
100-42-5	Styrene	5.8	U	5.8
10061-01-5	cis-1,3-Dichloropropene	5.8	U	5.8
10061-02-6	trans-1,3-Dichloropropene	5.8	U	5.8
103-65-1	N-Propylbenzene	5.8	U	5.8
104-51-8	n-Butylbenzene	5.8	U	5.8
106-43-4	4-Chlorotoluene	5.8	U	5.8
106-46-7	1,4-Dichlorobenzene	5.8	U	5.8
106-93-4	Ethylene Dibromide	5.8	U	5.8
107-05-1	3-Chloro-1-propene	12	U	12
107-06-2	1,2-Dichloroethane	5.8	U	5.8
108-05-4	Vinyl acetate	12	U	12
108-10-1	4-Methyl-2-pentanone (MIBK)	23	U	23
108-67-8	1,3,5-Trimethylbenzene	5.8	U	5.8
108-86-1	Bromobenzene	5.8	U	5.8
108-87-2	Methylcyclohexane	5.8	U	5.8
108-88-3	Toluene	5.8	U	5.8
108-90-7	Chlorobenzene	5.8	U	5.8
109-99-9	Tetrahydrofuran	23	U	23
110-54-3	Hexane	5.8	U	5.8
110-82-7	Cyclohexane	5.8	U	5.8
120-82-1	1,2,4-Trichlorobenzene	5.8	U	5.8
124-48-1	Chlorodibromomethane	5.8	U	5.8
127-18-4	Tetrachloroethene	5.8	U	5.8
135-98-8	sec-Butylbenzene	5.8	U	5.8
142-28-9	1,3-Dichloropropane	5.8	U	5.8
156-59-2	cis-1,2-Dichloroethene	2.9	U	2.9
156-60-5	trans-1,2-Dichloroethene	2.9	U	2.9
1634-04-4	Methyl tert-butyl ether	23	U	23
179601-23-1	m-Xylene & p-Xylene	2.9	U	2.9
541-73-1	1,3-Dichlorobenzene	5.8	U	5.8
56-23-5	Carbon tetrachloride	5.8	U	5.8
563-58-6	1,1-Dichloropropene	5.8	U	5.8
591-78-6	2-Hexanone	23	U	23

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-15-04042024 Lab Sample ID: 280-189690-20

Matrix: Solid Lab File ID: MS12_044414.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:10

Sample wt/vol: 5.005(g) Date Analyzed: 04/18/2024 03:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 14.1 % Solids: 85.9 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.8	U	5.8
60-29-7	Ethyl ether	12	U	12
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U	5.8
67-64-1	Acetone	93	U	93
67-66-3	Chloroform	12	U	12
71-43-2	Benzene	5.8	U	5.8
71-55-6	1,1,1-Trichloroethane	5.8	U	5.8
74-83-9	Bromomethane	12	U	12
74-87-3	Chloromethane	12	U	12
74-88-4	Iodomethane	5.8	U	5.8
74-95-3	Dibromomethane	5.8	U	5.8
74-97-5	Chlorobromomethane	5.8	U	5.8
75-00-3	Chloroethane	12	U	12
75-01-4	Vinyl chloride	5.8	U	5.8
75-09-2	Methylene Chloride	5.8	U	5.8
75-15-0	Carbon disulfide	5.8	U	5.8
75-25-2	Bromoform	5.8	U	5.8
75-27-4	Dichlorobromomethane	5.8	U	5.8
75-34-3	1,1-Dichloroethane	5.8	U	5.8
75-35-4	1,1-Dichloroethene	5.8	U	5.8
75-69-4	Trichlorofluoromethane	12	U	12
75-71-8	Dichlorodifluoromethane	12	U	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	23
78-87-5	1,2-Dichloropropane	5.8	U	5.8
78-93-3	2-Butanone (MEK)	23	U	23
79-00-5	1,1,2-Trichloroethane	5.8	U	5.8
79-01-6	Trichloroethene	5.8	U	5.8
79-20-9	Methyl acetate	12	U	12
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U	5.8
87-61-6	1,2,3-Trichlorobenzene	5.8	U	5.8
87-68-3	Hexachlorobutadiene	5.8	U	5.8
91-20-3	Naphthalene	7.7	U	7.7
95-47-6	o-Xylene	2.9	U	2.9

MT 4/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-15-04042024 Lab Sample ID: 280-189690-20

Matrix: Solid Lab File ID: MS12_044414.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:10

Sample wt/vol: 5.005(g) Date Analyzed: 04/18/2024 03:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 14.1 % Solids: 85.9 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.8	U	5.8
95-50-1	1,2-Dichlorobenzene	5.8	U	5.8
95-63-6	1,2,4-Trimethylbenzene	5.8	U	5.8
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12
96-18-4	1,2,3-Trichloropropane	5.8	U	5.8
97-63-2	Ethyl methacrylate	5.8	U	5.8
98-06-6	tert-Butylbenzene	5.8	U	5.8
98-82-8	Isopropylbenzene	5.8	U	5.8
99-87-6	4-Isopropyltoluene	5.8	U	5.8
1330-20-7	Xylenes, Total	5.8	U	5.8
540-59-0	1,2-Dichloroethene, Total	5.8	U	5.8
542-75-6	1,3-Dichloropropene, Total	5.8	U	5.8
STL00209	Trihalomethanes, Total	12	U	12
STL00431	Total BTEX	5.8	U	5.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		50-160
1868-53-7	Dibromofluoromethane (Surr)	93		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-126
460-00-4	4-Bromofluorobenzene (Surr)	103		76-127

MF 6/5/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-20-04042024 | Lab Sample ID: 280-189690-21

Matrix: Solid | Lab File ID: MS12_044415.D

Analysis Method: 8260D | Date Collected: 04/04/2024 15:15

Sample wt/vol: 5.144(g) | Date Analyzed: 04/18/2024 04:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 17.5 % Solids: 82.5 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.9	U	5.9
100-42-5	Styrene	5.9	U	5.9
10061-01-5	cis-1,3-Dichloropropene	5.9	U	5.9
10061-02-6	trans-1,3-Dichloropropene	5.9	U	5.9
103-65-1	N-Propylbenzene	5.9	U	5.9
104-51-8	n-Butylbenzene	5.9	U	5.9
106-43-4	4-Chlorotoluene	5.9	U	5.9
106-46-7	1,4-Dichlorobenzene	5.9	U	5.9
106-93-4	Ethylene Dibromide	5.9	U	5.9
107-05-1	3-Chloro-1-propene	12	U	12
107-06-2	1,2-Dichloroethane	5.9	U	5.9
108-05-4	Vinyl acetate	12	U	12
108-10-1	4-Methyl-2-pentanone (MIBK)	24	U	24
108-67-8	1,3,5-Trimethylbenzene	5.9	U	5.9
108-86-1	Bromobenzene	5.9	U	5.9
108-87-2	Methylcyclohexane	5.9	U	5.9
108-88-3	Toluene	5.9	U	5.9
108-90-7	Chlorobenzene	5.9	U	5.9
109-99-9	Tetrahydrofuran	24	U	24
110-54-3	Hexane	5.9	U	5.9
110-82-7	Cyclohexane	5.9	U	5.9
120-82-1	1,2,4-Trichlorobenzene	5.9	U	5.9
124-48-1	Chlorodibromomethane	5.9	U	5.9
127-18-4	Tetrachloroethene	5.9	U	5.9
135-98-8	sec-Butylbenzene	5.9	U	5.9
142-28-9	1,3-Dichloropropane	5.9	U	5.9
156-59-2	cis-1,2-Dichloroethene	2.9	U	2.9
156-60-5	trans-1,2-Dichloroethene	2.9	U	2.9
1634-04-4	Methyl tert-butyl ether	24	U	24
179601-23-1	m-Xylene & p-Xylene	2.9	U	2.9
541-73-1	1,3-Dichlorobenzene	5.9	U	5.9
56-23-5	Carbon tetrachloride	5.9	U	5.9
563-58-6	1,1-Dichloropropene	5.9	U	5.9
591-78-6	2-Hexanone	24	U	24

MT 4/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-20-04042024 | Lab Sample ID: 280-189690-21

Matrix: Solid | Lab File ID: MS12_044415.D

Analysis Method: 8260D | Date Collected: 04/04/2024 15:15

Sample wt/vol: 5.144(g) | Date Analyzed: 04/18/2024 04:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 17.5 % Solids: 82.5 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.9	U	5.9
60-29-7	Ethyl ether	12	U	12
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U	5.9
67-64-1	Acetone	94	U	94
67-66-3	Chloroform	12	U	12
71-43-2	Benzene	5.9	U	5.9
71-55-6	1,1,1-Trichloroethane	5.9	U	5.9
74-83-9	Bromomethane	12	U	12
74-87-3	Chloromethane	12	U	12
74-88-4	Iodomethane	5.9	U	5.9
74-95-3	Dibromomethane	5.9	U	5.9
74-97-5	Chlorobromomethane	5.9	U	5.9
75-00-3	Chloroethane	12	U	12
75-01-4	Vinyl chloride	5.9	U	5.9
75-09-2	Methylene Chloride	5.9	U	5.9
75-15-0	Carbon disulfide	5.9	U	5.9
75-25-2	Bromoform	5.9	U	5.9
75-27-4	Dichlorobromomethane	5.9	U	5.9
75-34-3	1,1-Dichloroethane	5.9	U	5.9
75-35-4	1,1-Dichloroethene	5.9	U	5.9
75-69-4	Trichlorofluoromethane	12	U	12
75-71-8	Dichlorodifluoromethane	12	U	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	24
78-87-5	1,2-Dichloropropane	5.9	U	5.9
78-93-3	2-Butanone (MEK)	24	U	24
79-00-5	1,1,2-Trichloroethane	5.9	U	5.9
79-01-6	Trichloroethene	5.9	U	5.9
79-20-9	Methyl acetate	12	U	12
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U	5.9
87-61-6	1,2,3-Trichlorobenzene	5.9	U	5.9
87-68-3	Hexachlorobutadiene	5.9	U	5.9
91-20-3	Naphthalene	7.8	U	7.8
95-47-6	o-Xylene	2.9	U	2.9

MM 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-20-04042024 Lab Sample ID: 280-189690-21

Matrix: Solid Lab File ID: MS12_044415.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:15

Sample wt/vol: 5.144(g) Date Analyzed: 04/18/2024 04:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 17.5 % Solids: 82.5 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-49-8	2-Chlorotoluene	5.9	U	5.9	
95-50-1	1,2-Dichlorobenzene	5.9	U	5.9	
95-63-6	1,2,4-Trimethylbenzene	5.9	U	5.9	
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12	
96-18-4	1,2,3-Trichloropropane	5.9	U	5.9	
97-63-2	Ethyl methacrylate	5.9	U	5.9	
98-06-6	tert-Butylbenzene	5.9	U	5.9	
98-82-8	Isopropylbenzene	5.9	U	5.9	
99-87-6	4-Isopropyltoluene	5.9	U	5.9	
1330-20-7	Xylenes, Total	5.9	U	5.9	
540-59-0	1,2-Dichloroethene, Total	5.9	U	5.9	
542-75-6	1,3-Dichloropropene, Total	5.9	U	5.9	
STL00209	Trihalomethanes, Total	12	U	12	
STL00431	Total BTEX	5.9	U	5.9	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		58-140
1868-53-7	Dibromofluoromethane (Surr)	98		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	103		76-127

MM 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-25-04042024 Lab Sample ID: 280-189690-22

Matrix: Solid Lab File ID: MS12_044416.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:20

Sample wt/vol: 4.632(g) Date Analyzed: 04/18/2024 04:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 9.9 % Solids: 90.1 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	6.0	U	6.0
100-42-5	Styrene	6.0	U	6.0
10061-01-5	cis-1,3-Dichloropropene	6.0	U	6.0
10061-02-6	trans-1,3-Dichloropropene	6.0	U	6.0
103-65-1	N-Propylbenzene	6.0	U	6.0
104-51-8	n-Butylbenzene	6.0	U	6.0
106-43-4	4-Chlorotoluene	6.0	U	6.0
106-46-7	1,4-Dichlorobenzene	6.0	U	6.0
106-93-4	Ethylene Dibromide	6.0	U	6.0
107-05-1	3-Chloro-1-propene	12	U	12
107-06-2	1,2-Dichloroethane	6.0	U	6.0
108-05-4	Vinyl acetate		U	12
108-10-1	4-Methyl-2-pentanone (MIBK)	24	U	24
108-67-8	1,3,5-Trimethylbenzene	6.0	U	6.0
108-86-1	Bromobenzene	6.0	U	6.0
108-87-2	Methylcyclohexane	6.0	U	6.0
108-88-3	Toluene	6.0	U	6.0
108-90-7	Chlorobenzene	6.0	U	6.0
109-99-9	Tetrahydrofuran	24	U	24
110-54-3	Hexane	6.0	U	6.0
110-82-7	Cyclohexane	6.0	U	6.0
120-82-1	1,2,4-Trichlorobenzene	6.0	U	6.0
124-48-1	Chlorodibromomethane	6.0	U	6.0
127-18-4	Tetrachloroethene	6.0	U	6.0
135-98-8	sec-Butylbenzene	6.0	U	6.0
142-28-9	1,3-Dichloropropane	6.0	U	6.0
156-59-2	cis-1,2-Dichloroethene	3.0	U	3.0
156-60-5	trans-1,2-Dichloroethene	3.0	U	3.0
1634-04-4	Methyl tert-butyl ether	24	U	24
179601-23-1	m-Xylene & p-Xylene	3.0	U	3.0
541-73-1	1,3-Dichlorobenzene	6.0	U	6.0
56-23-5	Carbon tetrachloride	6.0	U	6.0
563-58-6	1,1-Dichloropropene	6.0	U	6.0
591-78-6	2-Hexanone	24	U	24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1
SDG No.:
Client Sample ID: POST-SO-SB3-25-04042024 | Lab Sample ID: 280-189690-22
Matrix: Solid | Lab File ID: MS12_044416.D
Analysis Method: 8260D | Date Collected: 04/04/2024 15:20
Sample wt/vol: 4.632(g) | Date Analyzed: 04/18/2024 04:35
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 9.9 % Solids: 90.1 | Level: (low/med) Low
Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	6.0	U	6.0
60-29-7	Ethyl ether	12	U	12
630-20-6	1,1,1,2-Tetrachloroethane	6.0	U	6.0
67-64-1	Acetone	96	U	96
67-66-3	Chloroform	12	U	12
71-43-2	Benzene	6.0	U	6.0
71-55-6	1,1,1-Trichloroethane	6.0	U	6.0
74-83-9	Bromomethane	12	U	12
74-87-3	Chloromethane	12	U	12
74-88-4	Iodomethane	6.0	U	6.0
74-95-3	Dibromomethane	6.0	U	6.0
74-97-5	Chlorobromomethane	6.0	U	6.0
75-00-3	Chloroethane	12	U	12
75-01-4	Vinyl chloride	6.0	U	6.0
75-09-2	Methylene Chloride	6.0	U	6.0
75-15-0	Carbon disulfide	6.0	U	6.0
75-25-2	Bromoform	6.0	U	6.0
75-27-4	Dichlorobromomethane	6.0	U	6.0
75-34-3	1,1-Dichloroethane	6.0	U	6.0
75-35-4	1,1-Dichloroethene	6.0	U	6.0
75-69-4	Trichlorofluoromethane	12	U	12
75-71-8	Dichlorodifluoromethane	12	U	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	24
78-87-5	1,2-Dichloropropane	6.0	U	6.0
78-93-3	2-Butanone (MEK)	24	U	24
79-00-5	1,1,2-Trichloroethane	6.0	U	6.0
79-01-6	Trichloroethene	6.0	U	6.0
79-20-9	Methyl acetate	12	U	12
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U	6.0
87-61-6	1,2,3-Trichlorobenzene	6.0	U	6.0
87-68-3	Hexachlorobutadiene	6.0	U	6.0
91-20-3	Naphthalene	7.9	U	7.9
95-47-6	o-Xylene	3.0	U	3.0

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-25-04042024 Lab Sample ID: 280-189690-22

Matrix: Solid Lab File ID: MS12_044416.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:20

Sample wt/vol: 4.632(g) Date Analyzed: 04/18/2024 04:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 9.9 % Solids: 90.1 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	6.0	U	6.0
95-50-1	1,2-Dichlorobenzene	6.0	U	6.0
95-63-6	1,2,4-Trimethylbenzene	6.0	U	6.0
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12
96-18-4	1,2,3-Trichloropropane	6.0	U	6.0
97-63-2	Ethyl methacrylate	6.0	U	6.0
98-06-6	tert-Butylbenzene	6.0	U	6.0
98-82-8	Isopropylbenzene	6.0	U	6.0
99-87-6	4-Isopropyltoluene	6.0	U	6.0
1330-20-7	Xylenes, Total	6.0	U	6.0
540-59-0	1,2-Dichloroethene, Total	6.0	U	6.0
542-75-6	1,3-Dichloropropene, Total	6.0	U	6.0
STL00209	Trihalomethanes, Total	12	U	12
STL00431	Total BTEX	6.0	U	6.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		58-140
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	103		76-127

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-30-04042024 | Lab Sample ID: 280-189690-23

Matrix: Solid | Lab File ID: MS12_044417.D

Analysis Method: 8260D | Date Collected: 04/04/2024 15:25

Sample wt/vol: 4.919(g) | Date Analyzed: 04/18/2024 04:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 21.4 % Solids: 78.6 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	6.5	U	6.5
100-42-5	Styrene	6.5	U	6.5
10061-01-5	cis-1,3-Dichloropropene	6.5	U	6.5
10061-02-6	trans-1,3-Dichloropropene	6.5	U	6.5
103-65-1	N-Propylbenzene	6.5	U	6.5
104-51-8	n-Butylbenzene	6.5	U	6.5
106-43-4	4-Chlorotoluene	6.5	U	6.5
106-46-7	1,4-Dichlorobenzene	6.5	U	6.5
106-93-4	Ethylene Dibromide	6.5	U	6.5
107-05-1	3-Chloro-1-propene	13	U	13
107-06-2	1,2-Dichloroethane	6.5	U	6.5
108-05-4	Vinyl acetate	13	U	13
108-10-1	4-Methyl-2-pentanone (MIBK)	26	U	26
108-67-8	1,3,5-Trimethylbenzene	6.5	U	6.5
108-86-1	Bromobenzene	6.5	U	6.5
108-87-2	Methylcyclohexane	6.5	U	6.5
108-88-3	Toluene	6.5	U	6.5
108-90-7	Chlorobenzene	6.5	U	6.5
109-99-9	Tetrahydrofuran	26	U	26
110-54-3	Hexane	6.5	U	6.5
110-82-7	Cyclohexane	6.5	U	6.5
120-82-1	1,2,4-Trichlorobenzene	6.5	U	6.5
124-48-1	Chlorodibromomethane	6.5	U	6.5
127-18-4	Tetrachloroethene	6.5	U	6.5
135-98-8	sec-Butylbenzene	6.5	U	6.5
142-28-9	1,3-Dichloropropane	6.5	U	6.5
156-59-2	cis-1,2-Dichloroethene	3.2	U	3.2
156-60-5	trans-1,2-Dichloroethene	3.2	U	3.2
1634-04-4	Methyl tert-butyl ether	26	U	26
179601-23-1	m-Xylene & p-Xylene	3.2	U	3.2
541-73-1	1,3-Dichlorobenzene	6.5	U	6.5
56-23-5	Carbon tetrachloride	6.5	U	6.5
563-58-6	1,1-Dichloropropene	6.5	U	6.5
591-78-6	2-Hexanone	26	U	26

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-30-04042024 Lab Sample ID: 280-189690-23

Matrix: Solid Lab File ID: MS12_044417.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:25

Sample wt/vol: 4.919(g) Date Analyzed: 04/18/2024 04:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 21.4 % Solids: 78.6 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	6.5	U	6.5
60-29-7	Ethyl ether	13	U	13
630-20-6	1,1,1,2-Tetrachloroethane	6.5	U	6.5
67-64-1	Acetone	100	U	100
67-66-3	Chloroform	13	U	13
71-43-2	Benzene	6.5	U	6.5
71-55-6	1,1,1-Trichloroethane	6.5	U	6.5
74-83-9	Bromomethane	13	U	13
74-87-3	Chloromethane	13	U	13
74-88-4	Iodomethane	6.5	U	6.5
74-95-3	Dibromomethane	6.5	U	6.5
74-97-5	Chlorobromomethane	6.5	U	6.5
75-00-3	Chloroethane	13	U	13
75-01-4	Vinyl chloride	6.5	U	6.5
75-09-2	Methylene Chloride	6.5	U	6.5
75-15-0	Carbon disulfide	6.5	U	6.5
75-25-2	Bromoform	6.5	U	6.5
75-27-4	Dichlorobromomethane	6.5	U	6.5
75-34-3	1,1-Dichloroethane	6.5	U	6.5
75-35-4	1,1-Dichloroethene	6.5	U	6.5
75-69-4	Trichlorofluoromethane	13	U	13
75-71-8	Dichlorodifluoromethane	13	U	13
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26	U	26
78-87-5	1,2-Dichloropropane	6.5	U	6.5
78-93-3	2-Butanone (MEK)	26	U	26
79-00-5	1,1,2-Trichloroethane	6.5	U	6.5
79-01-6	Trichloroethene	6.5	U	6.5
79-20-9	Methyl acetate	13	U	13
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U	6.5
87-61-6	1,2,3-Trichlorobenzene	6.5	U	6.5
87-68-3	Hexachlorobutadiene	6.5	U	6.5
91-20-3	Naphthalene	8.5	U	8.5
95-47-6	o-Xylene	3.2	U	3.2

MF 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1
SDG No.:
Client Sample ID: POST-SO-SB3-30-04042024 | Lab Sample ID: 280-189690-23
Matrix: Solid | Lab File ID: MS12_044417.D
Analysis Method: 8260D | Date Collected: 04/04/2024 15:25
Sample wt/vol: 4.919(g) | Date Analyzed: 04/18/2024 04:54
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 21.4 % Solids: 78.6 | Level: (low/med) Low
Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	6.5	U	6.5
95-50-1	1,2-Dichlorobenzene	6.5	U	6.5
95-63-6	1,2,4-Trimethylbenzene	6.5	U	6.5
96-12-8	1,2-Dibromo-3-Chloropropane	13	U	13
96-18-4	1,2,3-Trichloropropane	6.5	U	6.5
97-63-2	Ethyl methacrylate	6.5	U	6.5
98-06-6	tert-Butylbenzene	6.5	U	6.5
98-82-8	Isopropylbenzene	6.5	U	6.5
99-87-6	4-Isopropyltoluene	6.5	U	6.5
1330-20-7	Xylenes, Total	6.5	U	6.5
540-59-0	1,2-Dichloroethene, Total	6.5	U	6.5
542-75-6	1,3-Dichloropropene, Total	6.5	U	6.5
STL00209	Trihalomethanes, Total	13	U	13
STL00431	Total BTEX	6.5	U	6.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		58-140
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
2037-26-5	Toluene-d8 (Surr)	100		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		76-127

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-35-04042024 Lab Sample ID: 280-189690-24

Matrix: Solid Lab File ID: MS12_044418.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:30

Sample wt/vol: 4.847(g) Date Analyzed: 04/18/2024 05:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 13.1 % Solids: 86.9 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.9	U	5.9
100-42-5	Styrene	5.9	U	5.9
10061-01-5	cis-1,3-Dichloropropene	5.9	U	5.9
10061-02-6	trans-1,3-Dichloropropene	5.9	U	5.9
103-65-1	n-Propylbenzene	5.9	U	5.9
104-51-8	n-Butylbenzene	5.9	U	5.9
106-43-4	4-Chlorotoluene	5.9	U	5.9
106-46-7	1,4-Dichlorobenzene	5.9	U	5.9
106-93-4	Ethylene Dibromide	5.9	U	5.9
107-05-1	3-Chloro-1-propene	12	U	12
107-06-2	1,2-Dichloroethane	5.9	U	5.9
108-05-4	Vinyl acetate	12	U	12
108-10-1	4-Methyl-2-pentanone (MIBK)	24	U	24
108-67-8	1,3,5-Trimethylbenzene	5.9	U	5.9
108-86-1	Bromobenzene	5.9	U	5.9
108-87-2	Methylcyclohexane	5.9	U	5.9
108-88-3	Toluene	5.9	U	5.9
108-90-7	Chlorobenzene	5.9	U	5.9
109-99-9	Tetrahydrofuran	24	U	24
110-54-3	Hexane	5.9	U	5.9
110-82-7	Cyclohexane	5.9	U	5.9
120-82-1	1,2,4-Trichlorobenzene	5.9	U	5.9
124-48-1	Chlorodibromomethane	5.9	U	5.9
127-18-4	Tetrachloroethene	5.9	U	5.9
135-98-8	sec-Butylbenzene	5.9	U	5.9
142-28-9	1,3-Dichloropropane	5.9	U	5.9
156-59-2	cis-1,2-Dichloroethene	3.0	U	3.0
156-60-5	trans-1,2-Dichloroethene	3.0	U	3.0
1634-04-4	Methyl tert-butyl ether	24	U	24
179601-23-1	m-Xylene & p-Xylene	3.0	U	3.0
541-73-1	1,3-Dichlorobenzene	5.9	U	5.9
56-23-5	Carbon tetrachloride	5.9	U	5.9
563-58-6	1,1-Dichloropropene	5.9	U	5.9
591-78-6	2-Hexanone	24	U	24

MT 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-35-04042024 Lab Sample ID: 280-189690-24

Matrix: Solid Lab File ID: MS12_044418.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:30

Sample wt/vol: 4.847(g) Date Analyzed: 04/18/2024 05:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 13.1 % Solids: 86.9 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.9	U	5.9
60-29-7	Ethyl ether	12	U	12
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U	5.9
67-64-1	Acetone	99	U	99
67-66-3	Chloroform	12	U	12
71-43-2	Benzene	5.9	U	5.9
71-55-6	1,1,1-Trichloroethane	5.9	U	5.9
74-83-9	Bromomethane	12	U	12
74-87-3	Chloromethane	12	U	12
74-88-4	Iodomethane	5.9	U	5.9
74-95-3	Dibromomethane	5.9	U	5.9
74-97-5	Chlorobromomethane	5.9	U	5.9
75-00-3	Chloroethane	12	U	12
75-01-4	Vinyl chloride	5.9	U	5.9
75-09-2	Methylene Chloride	5.9	U	5.9
75-15-0	Carbon disulfide	5.9	U	5.9
75-25-2	Bromoform	5.9	U	5.9
75-27-4	Dichlorobromomethane	5.9	U	5.9
75-34-3	1,1-Dichloroethane	5.9	U	5.9
75-35-4	1,1-Dichloroethene	5.9	U	5.9
75-69-4	Trichlorofluoromethane	12	U	12
75-71-8	Dichlorodifluoromethane	12	U	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	24
78-87-5	1,2-Dichloropropane	5.9	U	5.9
78-93-3	2-Butanone (MEK)	24	U	24
79-00-5	1,1,2-Trichloroethane	5.9	U	5.9
79-01-6	Trichloroethene	5.9	U	5.9
79-20-9	Methyl acetate	12	U	12
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U	5.9
87-61-6	1,2,3-Trichlorobenzene	5.9	U	5.9
87-68-3	Hexachlorobutadiene	5.9	U	5.9
91-20-3	Naphthalene	7.8	U	7.8
95-47-6	o-Xylene	3.0	U	3.0

MT 4/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-35-04042024 | Lab Sample ID: 280-189690-24

Matrix: Solid | Lab File ID: MS12_044418.D

Analysis Method: 8260D | Date Collected: 04/04/2024 15:30

Sample wt/vol: 4.847(g) | Date Analyzed: 04/18/2024 05:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 13.1 % Solids: 86.9 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.9	U	5.9
95-50-1	1,2-Dichlorobenzene	5.9	U	5.9
95-63-6	1,2,4-Trimethylbenzene	5.9	U	5.9
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12
96-18-4	1,2,3-Trichloropropane	5.9	U	5.9
97-63-2	Ethyl methacrylate	5.9	U	5.9
98-06-6	tert-Butylbenzene	5.9	U	5.9
98-82-8	Isopropylbenzene	5.9	U	5.9
99-87-6	4-Isopropyltoluene	5.9	U	5.9
1330-20-7	Xylenes, Total	5.9	U	5.9
540-59-0	1,2-Dichloroethene, Total	5.9	U	5.9
542-75-6	1,3-Dichloropropene, Total	5.9	U	5.9
STL00209	Trihalomethanes, Total	12	U	12
STL00431	Total BTEX	5.9	U	5.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		58-140
1868-53-7	Dibromofluoromethane (Surr)	101		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	103		76-127

MT 4/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-40-04042024 Lab Sample ID: 280-189690-25

Matrix: Solid Lab File ID: MS12_044419.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:35

Sample wt/vol: 5.418(g) Date Analyzed: 04/18/2024 05:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 14.3 % Solids: 85.7 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.4	U	5.4
100-42-5	Styrene	5.4	U	5.4
10061-01-5	cis-1,3-Dichloropropene	5.4	U	5.4
10061-02-6	trans-1,3-Dichloropropene	5.4	U	5.4
103-65-1	N-Propylbenzene	5.4	U	5.4
104-51-8	n-Butylbenzene	5.4	U	5.4
106-43-4	4-Chlorotoluene	5.4	U	5.4
106-46-7	1,4-Dichlorobenzene	5.4	U	5.4
106-93-4	Ethylene Dibromide	5.4	U	5.4
107-05-1	3-Chloro-1-propene	11	U	11
107-06-2	1,2-Dichloroethane	5.4	U	5.4
108-05-4	Vinyl acetate	11	U	11
108-10-1	4-Methyl-2-pentanone (MIBK)	22	U	22
108-67-8	1,3,5-Trimethylbenzene	5.4	U	5.4
108-86-1	Bromobenzene	5.4	U	5.4
108-87-2	Methylcyclohexane	5.4	U	5.4
108-88-3	Toluene	5.4	U	5.4
108-90-7	Chlorobenzene	5.4	U	5.4
109-99-9	Tetrahydrofuran	22	U	22
110-54-3	Hexane	5.4	U	5.4
110-82-7	Cyclohexane	5.4	U	5.4
120-82-1	1,2,4-Trichlorobenzene	5.4	U	5.4
124-48-1	Chlorodibromomethane	5.4	U	5.4
127-18-4	Tetrachloroethene	5.4	U	5.4
135-98-8	sec-Butylbenzene	5.4	U	5.4
142-28-9	1,3-Dichloropropane	5.4	U	5.4
156-59-2	cis-1,2-Dichloroethene	2.7	U	2.7
156-60-5	trans-1,2-Dichloroethene	2.7	U	2.7
1634-04-4	Methyl tert-butyl ether	22	U	22
179601-23-1	m-Xylene & p-Xylene	2.7	U	2.7
541-73-1	1,3-Dichlorobenzene	5.4	U	5.4
56-23-5	Carbon tetrachloride	5.4	U	5.4
563-58-6	1,1-Dichloropropene	5.4	U	5.4
591-78-6	2-Hexanone	22	U	22

MM 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1
SDG No.:
Client Sample ID: POST-SO-SB3-40-04042024 | Lab Sample ID: 280-189690-25
Matrix: Solid | Lab File ID: MS12_044419.D
Analysis Method: 8260D | Date Collected: 04/04/2024 15:35
Sample wt/vol: 5.418(g) | Date Analyzed: 04/18/2024 05:33
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 14.3 % Solids: 85.7 | Level: (low/med) Low
Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
[illegible]	2,2-Dichloropropane	5.4	U	5.4
60-29-7	Ethyl ether	11	U	11
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U	5.4
67-64-1	Acetone	86	U	86
67-66-3	Chloroform	11	U	11
71-43-2	Benzene	5.4	U	5.4
71-55-6	1,1,1-Trichloroethane	5.4	U	5.4
74-83-9	Bromomethane	11	U	11
74-87-3	Chloromethane	11	U	11
74-88-4	Iodomethane	5.4	U	5.4
74-95-3	Dibromomethane	5.4	U	5.4
74-97-5	Chlorobromomethane	5.4	U	5.4
75-00-3	Chloroethane	11	U	11
75-01-4	Vinyl chloride	5.4	U	5.4
75-09-2	Methylene Chloride	5.4	U	5.4
75-15-0	Carbon disulfide	5.4	U	5.4
75-25-2	Bromoform	5.4	U	5.4
75-27-4	Dichlorobromomethane	5.4	U	5.4
75-34-3	1,1-Dichloroethane	5.4	U	5.4
75-35-4	1,1-Dichloroethene	5.4	U	5.4
75-69-4	Trichlorofluoromethane	11	U	11
75-71-8	Dichlorodifluoromethane	11	U	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22
78-87-5	1,2-Dichloropropane	5.4	U	5.4
78-93-3	2-Butanone (MEK)	22	U	22
79-00-5	1,1,2-Trichloroethane	5.4	U	5.4
79-01-6	Trichloroethene	5.4	U	5.4
79-20-9	Methyl acetate	11	U	11
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U	5.4
87-61-6	1,2,3-Trichlorobenzene	5.4	U	5.4
87-68-3	Hexachlorobutadiene	5.4	U	5.4
91-20-3	Naphthalene	7.1	U	7.1
95-47-6	o-Xylene	2.7	U	2.7

MT 4/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-40-04042024 | Lab Sample ID: 280-189690-25

Matrix: Solid | Lab File ID: MS12_044419.D

Analysis Method: 8260D | Date Collected: 04/04/2024 15:35

Sample wt/vol: 5.418(g) | Date Analyzed: 04/18/2024 05:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.3 % Solids: 85.7 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.4	U	5.4
95-50-1	1,2-Dichlorobenzene	5.4	U	5.4
95-63-6	1,2,4-Trimethylbenzene	5.4	U	5.4
96-12-8	1,2-Dibromo-3-Chloropropane	11	U	11
96-18-4	1,2,3-Trichloropropane	5.4	U	5.4
97-63-2	Ethyl methacrylate	5.4	U	5.4
98-06-6	tert-Butylbenzene	5.4	U	5.4
98-82-8	Isopropylbenzene	5.4	U	5.4
99-87-6	4-Isopropyltoluene	5.4	U	5.4
1330-20-7	Xylenes, Total	5.4	U	5.4
540-59-0	1,2-Dichloroethene, Total	5.4	U	5.4
542-75-6	1,3-Dichloropropene, Total	5.4	U	5.4
STL00209	Trihalomethanes, Total	11	U	11
STL00431	Total BTEX	5.4	U	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		58-140
1868-53-7	Dibromofluoromethane (Surr)	98		75-121
2037-26-5	Toluene-d8 (Surr)	101		80-126
460-00-4	4-Bromofluorobenzene (Surr)	103		76-127

MM 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-45-04042024 | Lab Sample ID: 280-189690-26

Matrix: Solid | Lab File ID: MS12_044420.D

Analysis Method: 8260D | Date Collected: 04/04/2024 15:40

Sample wt/vol: 4.879(g) | Date Analyzed: 04/18/2024 05:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 13.0 % Solids: 87.0 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.9	U	5.9
100-42-5	Styrene	5.9	U	5.9
10061-01-5	cis-1,3-Dichloropropene	5.9	U	5.9
10061-02-6	trans-1,3-Dichloropropene	5.9	U	5.9
103-65-1	N-Propylbenzene	5.9	U	5.9
104-51-8	n-Butylbenzene	5.9	U	5.9
106-43-4	4-Chlorotoluene	5.9	U	5.9
106-46-7	1,4-Dichlorobenzene	5.9	U	5.9
106-93-4	Ethylene Dibromide	5.9	U	5.9
107-05-1	3-Chloro-1-propene	12	U	12
107-06-2	1,2-Dichloroethane	5.9	U	5.9
108-05-4	Vinyl acetate	12	U	12
108-10-1	4-Methyl-2-pentanone (MIBK)	24	U	24
108-67-8	1,3,5-Trimethylbenzene	5.9	U	5.9
108-86-1	Bromobenzene	5.9	U	5.9
108-87-2	Methylcyclohexane	5.9	U	5.9
108-88-3	Toluene	5.9	U	5.9
108-90-7	Chlorobenzene	5.9	U	5.9
109-99-9	Tetrahydrofuran	24	U	24
110-54-3	Hexane	5.9	U	5.9
110-82-7	Cyclohexane	5.9	U	5.9
120-82-1	1,2,4-Trichlorobenzene	5.9	U	5.9
124-48-1	Chlorodibromomethane	5.9	U	5.9
127-18-4	Tetrachloroethene	5.9	U	5.9
135-98-8	sec-Butylbenzene	5.9	U	5.9
142-28-9	1,3-Dichloropropane	5.9	U	5.9
156-59-2	cis-1,2-Dichloroethene	2.9	U	2.9
156-60-5	trans-1,2-Dichloroethene	2.9	U	2.9
1634-04-4	Methyl tert-butyl ether	24	U	24
179601-23-1	m-Xylene & p-Xylene	2.9	U	2.9
541-73-1	1,3-Dichlorobenzene	5.9	U	5.9
56-23-5	Carbon tetrachloride	5.9	U	5.9
563-58-6	1,1-Dichloropropene	5.9	U	5.9
591-78-6	2-Hexanone	24	U	24

MT 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-45-04042024 Lab Sample ID: 280-189690-26

Matrix: Solid Lab File ID: MS12_044420.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:40

Sample wt/vol: 4.879(g) Date Analyzed: 04/18/2024 05:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 13.0 % Solids: 87.0 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.9	U	5.9
60-29-7	Ethyl ether	12	U	12
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U	5.9
67-64-1	Acetone	94	U	94
67-66-3	Chloroform	12	U	12
71-43-2	Benzene	5.9	U	5.9
71-55-6	1,1,1-Trichloroethane	5.9	U	5.9
74-83-9	Bromomethane	12	U	12
74-87-3	Chloromethane	12	U	12
74-88-4	Iodomethane	5.9	U	5.9
74-95-3	Dibromomethane	5.9	U	5.9
74-97-5	Chlorobromomethane	5.9		5.9
75-00-3	Chloroethane	12	U	12
75-01-4	Vinyl chloride	5.9	U	5.9
75-09-2	Methylene Chloride	5.9	U	5.9
75-15-0	Carbon disulfide	5.9	U	5.9
75-25-2	Bromoform	5.9	U	5.9
75-27-4	Dichlorobromomethane	5.9	U	5.9
75-34-3	1,1-Dichloroethane	5.9	U	5.9
75-35-4	1,1-Dichloroethene	5.9	U	5.9
75-69-4	Trichlorofluoromethane	12	U	12
75-71-8	Dichlorodifluoromethane	12	U	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24	U	24
78-87-5	1,2-Dichloropropane	5.9	U	5.9
78-93-3	2-Butanone (MEK)	24	U	24
79-00-5	1,1,2-Trichloroethane	5.9	U	5.9
79-01-6	Trichloroethene	5.9	U	5.9
79-20-9	Methyl acetate	12	U	12
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U	5.9
87-61-6	1,2,3-Trichlorobenzene	5.9	U	5.9
87-68-3	Hexachlorobutadiene	5.9	U	5.9
91-20-3	Naphthalene	7.8	U	7.8
95-47-6	o-Xylene	2.9	J	2.9

MT 4/15/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-45-04042024 Lab Sample ID: 280-189690-26

Matrix: Solid Lab File ID: MS12_044420.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:40

Sample wt/vol: 4.879(g) Date Analyzed: 04/18/2024 05:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 13.0 % Solids: 87.0 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.9	U	5.9
95-50-1	1,2-Dichlorobenzene	5.9	U	5.9
95-63-6	1,2,4-Trimethylbenzene	5.9	U	5.9
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12
96-18-4	1,2,3-Trichloropropane	5.9	U	5.9
97-63-2	Ethyl methacrylate	5.9	U	5.9
98-06-6	tert-Butylbenzene	5.9	U	5.9
98-82-8	Isopropylbenzene	5.9	U	5.9
99-87-6	4-Isopropyltoluene	5.9	U	5.9
1330-20-7	Xylenes, Total	5.9	U	5.9
540-59-0	1,2-Dichloroethene, Total	5.9	U	5.9
542-75-6	1,3-Dichloropropene, Total	5.9	U	5.9
STL00209	Trihalomethanes, Total	12	U	12
STL00431	Total BTEX	5.9	U	5.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-140
1868-53-7	Dibromofluoromethane (Surr)	99		75-121
2037-26-5	Toluene-d8 (Surr)	100		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		76-127

MT 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-50-04042024 | Lab Sample ID: 280-189690-27

Matrix: Solid | Lab File ID: MS12_044421.D

Analysis Method: 8260D | Date Collected: 04/04/2024 15:45

Sample wt/vol: 5.088(g) | Date Analyzed: 04/18/2024 06:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 16.2 % Solids: 83.8 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.9	U	5.9
100-42-5	Styrene	5.9	U	5.9
10061-01-5	cis-1,3-Dichloropropene	5.9	U	5.9
10061-02-6	trans-1,3-Dichloropropene	5.9	U	5.9
103-65-1	N-Propylbenzene	5.9	U	5.9
104-51-8	n-Butylbenzene	5.9	U	5.9
106-43-4	4-Chlorotoluene	5.9	U	5.9
106-46-7	1,4-Dichlorobenzene	5.9	U	5.9
106-93-4	Ethylene Dibromide	5.9	U	5.9
107-05-1	3-Chloro-1-propene	12	U	12
107-06-2	1,2-Dichloroethane	5.9	U	5.9
108-05-4	Vinyl acetate	12	U	12
108-10-1	4-Methyl-2-pentanone (MIBK)	23	U	23
108-67-8	1,3,5-Trimethylbenzene	5.9	U	5.9
108-86-1	Bromobenzene	5.9	U	5.9
108-87-2	Methylcyclohexane	5.9	U	5.9
108-88-3	Toluene	5.9	U	5.9
108-90-7	Chlorobenzene	5.9	U	5.9
109-99-9	Tetrahydrofuran	23	U	23
110-54-3	Hexane	5.9	U	5.9
110-82-7	Cyclohexane	5.9	U	5.9
120-82-1	1,2,4-Trichlorobenzene	5.9	U	5.9
124-48-1	Chlorodibromomethane	5.9	U	5.9
127-18-4	Tetrachloroethene	5.9	U	5.9
135-98-8	sec-Butylbenzene	5.9	U	5.9
142-28-9	1,3-Dichloropropane	5.9	U	5.9
156-59-2	cis-1,2-Dichloroethene	2.9	U	2.9
156-60-5	trans-1,2-Dichloroethene	2.9	U	2.9
1634-04-4	Methyl tert-butyl ether	23	U	23
179601-23-1	m-Xylene & p-Xylene	2.9	U	2.9
541-73-1	1,3-Dichlorobenzene	5.9	U	5.9
56-23-5	Carbon tetrachloride	5.9	U	5.9
563-58-6	1,1-Dichloropropene	5.9	U	5.9
591-78-6	2-Hexanone	23	U	23

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-50-04042024 Lab Sample ID: 280-189690-27

Matrix: Solid Lab File ID: MS12_044421.D

Analysis Method: 8260D Date Collected: 04/04/2024 15:45

Sample wt/vol: 5.088(g) Date Analyzed: 04/18/2024 06:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 16.2 % Solids: 83.8 Level: (low/med) Low

Analysis Batch No.: 649974 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.9	U	5.9
60-29-7	Ethyl ether	12	U	12
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U	5.9
67-64-1	Acetone	94	U	94
67-66-3	Chloroform	12	U	12
71-43-2	Benzene	5.9	U	5.9
71-55-6	1,1,1-Trichloroethane	5.9	U	5.9
74-83-9	Bromomethane	12	U	12
74-87-3	Chloromethane	12	U	12
74-88-4	Iodomethane	5.9	U	5.9
74-95-3	Dibromomethane	5.9	U	5.9
74-97-5	Chlorobromomethane	5.9	U	5.9
75-00-3	Chloroethane	12	U	12
75-01-4	Vinyl chloride	5.9	U	5.9
75-09-2	Methylene Chloride	5.9	U	5.9
75-15-0	Carbon disulfide	5.9	U	5.9
75-25-2	Bromoform	5.9	U	5.9
75-27-4	Dichlorobromomethane	5.9	U	5.9
75-34-3	1,1-Dichloroethane	5.9	U	5.9
75-35-4	1,1-Dichloroethene	5.9	U	5.9
75-69-4	Trichlorofluoromethane	12	U	12
75-71-8	Dichlorodifluoromethane	12	U	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	23
78-87-5	1,2-Dichloropropane	5.9	U	5.9
78-93-3	2-Butanone (MEK)	23	U	23
79-00-5	1,1,2-Trichloroethane	5.9	U	5.9
79-01-6	Trichloroethene	5.9	U	5.9
79-20-9	Methyl acetate	12	U	12
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U	5.9
87-61-6	1,2,3-Trichlorobenzene	5.9	U	5.9
87-68-3	Hexachlorobutadiene	5.9	U	5.9
91-20-3	Naphthalene	7.7	U	7.7
95-47-6	o-Xylene	2.9	U	2.9

MT 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: POST-SO-SB3-50-04042024 | Lab Sample ID: 280-189690-2

Matrix: Solid | Lab File ID: MS12_044421.D

Analysis Method: 8260D | Date Collected: 04/04/2024 15:45

Sample wt/vol: 5.088(g) | Date Analyzed: 04/18/2024 06:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 16.2 % Solids: 83.8 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.9	U	5.9
95-50-1	1,2-Dichlorobenzene	5.9	U	5.9
95-63-6	1,2,4-Trimethylbenzene	5.9	U	5.9
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12
96-18-4	1,2,3-Trichloropropane	5.9	U	5.9
97-63-2	Ethyl methacrylate	5.9	U	5.9
98-06-6	tert-Butylbenzene	5.9	U	5.9
98-82-8	Isopropylbenzene	5.9	U	5.9
99-87-6	4-Isopropyltoluene	5.9	U	5.9
1330-20-7	Xylenes, Total	5.9	U	5.9
540-59-0	1,2-Dichloroethene, Total	5.9	U	5.9
542-75-6	1,3-Dichloropropene, Total	5.9	U	5.9
STL00209	Trihalomethanes, Total	12	U	12
STL00431	Total BTEX	5.9	U	5.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		58-140
1868-53-7	Dibromofluoromethane (Surr)	98		75-121
2037-26-5	Toluene-d8 (Surr)	101		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		76-127

MF 4/15/24

FORM 1
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1
SDG No.:
Client Sample ID: DUP-SO-2-04042024 | Lab Sample ID: 280-189690-28
Matrix: Solid | Lab File ID: MS12_044422.D
Analysis Method: 8260D | Date Collected: 04/04/2024 14:00
Sample wt/vol: 5.171(g) | Date Analyzed: 04/18/2024 06:32
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: 17.4 % Solids: 82.6 | Level: (low/med) Low
Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.9	U	5.9
100-42-5	Styrene	5.9	U	5.9
10061-01-5	cis-1,3-Dichloropropene	5.9	U	5.9
10061-02-6	trans-1,3-Dichloropropene	5.9	U	5.9
103-65-1	N-Propylbenzene	5.9	U	5.9
104-51-8	n-Butylbenzene	5.9	U	5.9
106-43-4	4-Chlorotoluene	5.9	U	5.9
106-46-7	1,4-Dichlorobenzene	5.9	U	5.9
106-93-4	Ethylene Dibromide	5.9	U	5.9
107-05-1	3-Chloro-1-propene	12	U	12
107-06-2	1,2-Dichloroethane	5.9	U	5.9
108-05-4	Vinyl acetate	12	U	12
108-10-1	4-Methyl-2-pentanone (MIBK)	23	U	23
108-67-8	1,3,5-Trimethylbenzene	5.9	U	5.9
108-86-1	Bromobenzene	5.9	U	5.9
108-87-2	Methylcyclohexane	5.9	U	5.9
108-88-3	Toluene	5.9	U	5.9
108-90-7	Chlorobenzene	5.9	U	5.9
109-99-9	Tetrahydrofuran	23	U	23
110-54-3	Hexane	5.9	U	5.9
110-82-7	Cyclohexane	5.9	U	5.9
120-82-1	1,2,4-Trichlorobenzene	5.9	U	5.9
124-48-1	Chlorodibromomethane	5.9	U	5.9
127-18-4	Tetrachloroethene	5.9	U	5.9
135-98-8	sec-Butylbenzene	5.9	U	5.9
142-28-9	1,3-Dichloropropane	5.9	U	5.9
156-59-2	cis-1,2-Dichloroethene	2.9	U	2.9
156-60-5	trans-1,2-Dichloroethene	2.9	U	2.9
1634-04-4	Methyl tert-butyl ether	23	U	23
179601-23-1	m-Xylene & p-Xylene	2.9	U	2.9
541-73-1	1,3-Dichlorobenzene	5.9	U	5.9
56-23-5	Carbon tetrachloride	5.9	U	5.9
563-58-6	1,1-Dichloropropene	5.9	U	5.9
591-78-6	2-Hexanone	23	U	23

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: DUP-SO-2-04042024 | Lab Sample ID: 280-189690-28

Matrix: Solid | Lab File ID: MS12_044422.D

Analysis Method: 8260D | Date Collected: 04/04/2024 14:00

Sample wt/vol: 5.171(g) | Date Analyzed: 04/18/2024 06:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 17.4 % Solids: 82.6 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	5.9	U	5.9
60-29-7	Ethyl ether	12	U	12
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U	5.9
67-64-1	Acetone	94	U	94
67-66-3	Chloroform	12	U	12
71-43-2	Benzene	5.9	U	5.9
71-55-6	1,1,1-Trichloroethane	5.9	U	5.9
74-83-9	Bromomethane	12	U	12
74-87-3	Chloromethane	12	U	12
74-88-4	Iodomethane	5.9	U	5.9
74-95-3	Dibromomethane	5.9	U	5.9
74-97-5	Chlorobromomethane	5.9	U	5.9
75-00-3	Chloroethane	12	U	12
75-01-4	Vinyl chloride	5.9	U	5.9
75-09-2	Methylene Chloride	5.9	U	5.9
75-15-0	Carbon disulfide	5.9	U	5.9
75-25-2	Bromoform	5.9	U	5.9
75-27-4	Dichlorobromomethane	5.9	U	5.9
75-34-3	1,1-Dichloroethane	5.9	U	5.9
75-35-4	1,1-Dichloroethene	5.9	U	5.9
75-69-4	Trichlorofluoromethane	12	U	12
75-71-8	Dichlorodifluoromethane	12	U	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	23
78-87-5	1,2-Dichloropropane	5.9	U	5.9
78-93-3	2-Butanone (MEK)	23	U	23
79-00-5	1,1,2-Trichloroethane	5.9	U	5.9
79-01-6	Trichloroethene	5.9	U	5.9
79-20-9	Methyl acetate	12	U	12
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U	5.9
87-61-6	1,2,3-Trichlorobenzene	5.9	U	5.9
87-68-3	Hexachlorobutadiene	5.9	U	5.9
91-20-3	Naphthalene	7.7	U	7.7
95-47-6	o-Xylene	2.9	U	2.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: DUP-SO-2-04042024 | Lab Sample ID: 280-189690-28

Matrix: Solid | Lab File ID: MS12_044422.D

Analysis Method: 8260D | Date Collected: 04/04/2024 14:00

Sample wt/vol: 5.171(g) | Date Analyzed: 04/18/2024 06:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 17.4 % Solids: 82.6 | Level: (low/med) Low

Analysis Batch No.: 649974 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	5.9	U	5.9
95-50-1	1,2-Dichlorobenzene	5.9	U	5.9
95-63-6	1,2,4-Trimethylbenzene	5.9	U	5.9
96-12-8	1,2-Dibromo-3-Chloropropane	12	U	12
96-18-4	1,2,3-Trichloropropane	5.9	U	5.9
97-63-2	Ethyl methacrylate	5.9	U	5.9
98-06-6	tert-Butylbenzene	5.9	U	5.9
98-82-8	Isopropylbenzene	5.9	U	5.9
99-87-6	4-Isopropyltoluene	5.9	U	5.9
1330-20-7	Xylenes, Total	5.9	U	5.9
540-59-0	1,2-Dichloroethene, Total	5.9	U	5.9
542-75-6	1,3-Dichloropropene, Total	5.9	U	5.9
STL00209	Trihalomethanes, Total	12	U	12
STL00431	Total BTEX	5.9	U	5.9

CAS NO	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		58-140
1868-53-7	Dibromofluoromethane (Surr)	100		75-131
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	102		76-127

MT 6/18/24

FORM 1
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189690-1
SDG No.:
Client Sample ID: Trip Blank Lab Sample ID: 280-189690-29
Matrix: Water Lab File ID: P7201.D
Analysis Method: 8260D Date Collected: 04/04/2024 13:00
Sample wt/vol: 5(mL) Date Analyzed: 04/11/2024 00:05
Soil Aliquot Vol: Dilution Factor: 1
Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 4.0
% Moisture: % Solids: Level: (low/med) Low
Analysis Batch No.: 649057 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	20
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0	U	2.0
110-82-7	Cyclohexane	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	1.0	U	1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

CW

MM 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 280-189690-29

Matrix: Water | Lab File ID: P7201.D

Analysis Method: 8260D | Date Collected: 04/04/2024 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/11/2024 00:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 4.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 649057 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	5.0	U	5.0	
594-20-7	2,2-Dichloropropane	1.0	U	1.0	
60-29-7	Ethyl ether	2.0	U	2.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	
67-64-1	Acetone	15	U	15	
67-66-3	Chloroform	1.0	U	1.0	
71-43-2	Benzene	1.0	U	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
74-83-9	Bromomethane	5.0	U	5.0	cw
74-87-3	Chloromethane	2.0	U	2.0	
74-88-4	Iodomethane	5.0	U	5.0	cw
74-95-3	Dibromomethane	1.0	U	1.0	
74-97-5	Chlorobromomethane	1.0	U	1.0	
75-00-3	Chloroethane	4.0	U	4.0	
75-01-4	Vinyl chloride	2.0	U	2.0	
75-09-2	Methylene Chloride	2.0	U	2.0	
75-15-0	Carbon disulfide	2.0	U	2.0	
75-25-2	Bromoform	2.0	U	2.0	
75-27-4	Dichlorobromomethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
75-69-4	Trichlorofluoromethane	2.0	U	2.0	
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	cw
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	15	U	15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
79-01-6	Trichloroethene	1.0	U	1.0	
79-20-9	Methyl acetate	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0	
87-68-3	Hexachlorobutadiene	2.0	U	2.0	
91-20-3	Naphthalene	2.0	U	2.0	

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189690-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 280-189690-29

Matrix: Water | Lab File ID: P7201.D

Analysis Method: 8260D | Date Collected: 04/04/2024 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/11/2024 00:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 4.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 649057 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	1.0	U	1.0
95-49-8	2-Chlorotoluene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5
97-63-2	Ethyl methacrylate	3.0	U	3.0
98-06-6	tert-Butylbenzene	1.0	U	1.0
98-82-8	Isopropylbenzene	1.0	U	1.0
99-87-6	4-Isopropyltoluene	1.0	U	1.0
1330-20-7	Xylenes, Total	1.0	U	1.0
540-59-0	1,2-Dichloroethene, Total	1.0	U	1.0
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0
STL00209	Trihalomethanes, Total	1.0	U	1.0
STL00431	Total BTEX	1.0	U	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-127
1868-53-7	Dibromofluoromethane (Surr)	93		77-120
2037-26-5	Toluene-d8 (Surr)	103		80-125
460-00-4	4-Bromofluorobenzene (Surr)	104		78-120

ENVIRONMENTAL
Data Services, Inc.

DATA VALIDATION SUMMARY REPORT
ABC CLEANERS, NORTH CAROLINA

Client: EA Engineering, Science & Technology, Inc., Hunt Valley, Maryland
SDG: 280-190468-1
Laboratory: Eurofins, Denver, Colorado
Site: ABC Cleaners, North Carolina
Date: June 18, 2024

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1*	SS-01-04222024	280-190468-1	Soil
2	SS-02-04222024	280-190468-2	Soil

*Stage 4 review

A Stage 2B/4 data validation was performed on the analytical data for two soil samples collected on April 22, 2024 by EA Engineering at the ABC Cleaners site in North Carolina. The samples were analyzed under the Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions.

Specific method references are as follows:

Analysis	*Method References*
VOCs	SW846 Method 8260D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, the Sampling and Analysis Plan and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," November 2020;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Holding times and sample preservation
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Target Compound Identification

- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no serious deficiencies of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Volatile Organic Compounds (VOC)

Holding Times

- All samples were analyzed within 14 days for soil samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- All percent relative standard deviation (%RSD) and/or correlation coefficients and mean relative response factor (RRF) criteria were met.

Continuing Calibration

- All %D and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)

- The LCS/LCSD samples exhibited acceptable percent recoveries (%R) and RPD values except for the following.

LCS ID	Compound	LCS %R/LCSD %R/RPD	Qualifier	Affected Samples
280-650657/3-A	1,1-Dichloroethene	OK/77%/OK	UJ	2

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria except for the following.

Sample ID	Compound	%R	Qualifier
1	All Standards	Low	UJ

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 6/21/24

Nancy Weaver

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Reason Code	Definition
HT	Holding Time
MB	Method Blank
SURR	Surrogate
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
CB/CCB	Calibration Blank or Continuing Calibration Blank
CCV	Calibration Verification
SD	ICP Serial Dilution
TB	Trip Blank
EB	Equipment Blank
FB	Field Blank
FD	Field Duplicate
CQ	Compound Quantitation
IS	Internal Standard

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190468-1

SDG No.:

Client Sample ID: SS-01-04222024 | Lab Sample ID: 280-190468-1

Matrix: Solid | Lab File ID: MS12 044683.D

Analysis Method: 8260D | Date Collected: 04/22/2024 10:58

Sample wt/vol: 5.980(g) | Date Analyzed: 04/24/2024 13:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 650746 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	4.2	U	4.2
100-42-5	Styrene	4.2	U	4.2
10061-01-5	cis-1,3-Dichloropropene	4.2	U	4.2
10061-02-6	trans-1,3-Dichloropropene	4.2	U	4.2
103-65-1	N-Propylbenzene	4.2	U	4.2
104-51-8	n-Butylbenzene	4.2	U	4.2
106-43-4	4-Chlorotoluene	4.2	U	4.2
106-46-7	1,4-Dichlorobenzene	4.2	U	4.2
106-93-4	Ethylene Dibromide	4.2	U	4.2
107-05-1	3-Chloro-1-propene	8.4	U	8.4
107-06-2	1,2-Dichloroethane	4.2	U	4.2
108-05-4	Vinyl acetate	8.4	U	8.4
108-10-1	4-Methyl-2-pentanone (MIBK)	17	U	17
108-67-8	1,3,5-Trimethylbenzene	4.2	U	4.2
108-86-1	Bromobenzene	4.2	U	4.2
108-87-2	Methylcyclohexane	4.2	U	4.2
108-88-3	Toluene	4.2	U	4.2
108-90-7	Chlorobenzene	4.2	U	4.2
109-99-9	Tetrahydrofuran	17	U	17
110-54-3	Hexane	4.2	U	4.2
110-82-7	Cyclohexane	4.2	U	4.2
120-82-1	1,2,4-Trichlorobenzene	4.2	U	4.2
124-48-1	Chlorodibromomethane	4.2	U	4.2
127-18-4	Tetrachloroethene	4.2	U	4.2
135-98-8	sec-Butylbenzene	4.2	U	4.2
142-28-9	1,3-Dichloropropane	4.2	U	4.2
156-59-2	cis-1,2-Dichloroethene	2.1	U	2.1
156-60-5	trans-1,2-Dichloroethene	2.1	U	2.1
1634-04-4	Methyl tert-butyl ether	17	U	17
179601-23-1	m-Xylene & p-Xylene	2.1	U	2.1
541-73-1	1,3-Dichlorobenzene	4.2	U	4.2
56-23-5	Carbon tetrachloride	4.2	U	4.2
563-58-6	1,1-Dichloropropene	4.2	U	4.2
591-78-6	2-Hexanone	17	U	17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190468-1

SDG No.:

Client Sample ID: SS-01-04222024 | Lab Sample ID: 280-190468-1

Matrix: Solid | Lab File ID: MS12_044683.D

Analysis Method: 8260D | Date Collected: 04/22/2024 10:58

Sample wt/vol: 5.980(g) | Date Analyzed: 04/24/2024 13:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 650746 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	4.2	U	4.2
60-29-7	Ethyl ether	8.4	U	8.4
630-20-6	1,1,1,2-Tetrachloroethane	4.2	U	4.2
67-64-1	Acetone	67		67
67-66-3	Chloroform	8.4	U	8.4
71-43-2	Benzene	4.2	U	4.2
71-55-6	1,1,1-Trichloroethane	4.2	U	4.2
74-83-9	Bromomethane	8.4	U	8.4
74-87-3	Chloromethane	8.4	U	8.4
74-88-4	Iodomethane	4.2	U	4.2
74-95-3	Dibromomethane	4.2	U	4.2
74-97-5	Chlorobromomethane	4.2	U	4.2
75-00-3	Chloroethane	8.4	U	8.4
75-01-4	Vinyl chloride	4.2	U	4.2
75-09-2	Methylene Chloride	4.2	U	4.2
75-15-0	Carbon disulfide	4.2	U	4.2
75-25-2	Bromoform	4.2	U	4.2
75-27-4	Dichlorobromomethane	4.2	U	4.2
75-34-3	1,1-Dichloroethane	4.2	U	4.2
75-35-4	1,1-Dichloroethene	4.2	U	4.2
75-69-4	Trichlorofluoromethane	8.4	U	8.4
75-71-8	Dichlorodifluoromethane	8.4	U	8.4
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17	U	17
78-87-5	1,2-Dichloropropane	4.2	U	4.2
78-93-3	2-Butanone (MEK)	17	U	17
79-00-5	1,1,2-Trichloroethane	4.2	U	4.2
79-01-6	Trichloroethene	4.2	U	4.2
79-20-9	Methyl acetate	8.4	U	8.4
79-34-5	1,1,2,2-Tetrachloroethane	4.2	U	4.2
87-61-6	1,2,3-Trichlorobenzene	4.2	U	4.2
87-68-3	Hexachlorobutadiene	4.2	U	4.2
91-20-3	Naphthalene	5.5	J	4.2
95-47-6	o-Xylene	2.1	J	2.1

FORM I 8260D

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190468-1

SDG No.:

Client Sample ID: SS-01-04222024 | Lab Sample ID: 280-190468-1

Matrix: Solid | Lab File ID: MS12_044683.D

Analysis Method: 8260D | Date Collected: 04/22/2024 10:58

Sample wt/vol: 5.980(g) | Date Analyzed: 04/24/2024 13:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 650746 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	4.2	U	4.2
95-50-1	1,2-Dichlorobenzene	4.2	U	4.2
95-63-6	1,2,4-Trimethylbenzene	4.2	U	4.2
96-12-8	1,2-Dibromo-3-Chloropropane	8.4	U	8.4
96-18-4	1,2,3-Trichloropropane	4.2	U	4.2
97-63-2	Ethyl methacrylate	4.2	U	4.2
98-06-6	tert-Butylbenzene	4.2	U	4.2
98-82-8	Isopropylbenzene	4.2	U	4.2
99-87-6	4-Isopropyltoluene	4.2	U	4.2
1330-20-7	Xylenes, Total	4.2	U	4.2
540-59-0	1,2-Dichloroethene, Total	4.2	U	4.2
542-75-6	1,3-Dichloropropene, Total	4.2	U	4.2
STL00209	Trihalomethanes, Total	8.4	U	8.4
STL00431	Total BTEX	4.2	U	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121		58-140
1868-53-7	Dibromofluoromethane (Surr)	105		75-121
2037-26-5	Toluene-d8 (Surr)	99		80-126
460-00-4	4-Bromofluorobenzene (Surr)	98		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190468-1

SDG No.:

Client Sample ID: SS-02-04222024 | Lab Sample ID: 280-190468-2

Matrix: Solid | Lab File ID: MS12_044684.D

Analysis Method: 8260D | Date Collected: 04/22/2024 11:05

Sample wt/vol: 6.032(g) | Date Analyzed: 04/24/2024 13:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 650746 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	4.1	U	4.1
100-42-5	Styrene	4.1	U	4.1
10061-01-5	cis-1,3-Dichloropropene	4.1	U	4.1
10061-02-6	trans-1,3-Dichloropropene	4.1	U	4.1
103-65-1	N-Propylbenzene	4.1	U	4.1
104-51-8	n-Butylbenzene	4.1	U	4.1
106-43-4	4-Chlorotoluene	4.1	U	4.1
106-46-7	1,4-Dichlorobenzene	4.1	U	4.1
106-93-4	Ethylene Dibromide	4.1	U	4.1
107-05-1	3-Chloro-1-propene	8.3	U	8.3
107-06-2	1,2-Dichloroethane	4.1	U	4.1
108-05-4	Vinyl acetate	8.3	U	8.3
108-10-1	4-Methyl-2-pentanone (MIBK)	17	U	17
108-67-8	1,3,5-Trimethylbenzene	4.1	U	4.1
108-86-1	Bromobenzene	4.1	U	4.1
108-87-2	Methylcyclohexane	4.1	U	4.1
108-88-3	Toluene	4.1	U	4.1
108-90-7	Chlorobenzene	4.1	U	4.1
109-99-9	Tetrahydrofuran	17	U	17
110-54-3	Hexane	4.1	U	4.1
110-82-7	Cyclohexane	4.1	U	4.1
120-82-1	1,2,4-Trichlorobenzene	4.1	U	4.1
124-48-1	Chlorodibromomethane	4.1	U	4.1
127-18-4	Tetrachloroethene	4.1	U	4.1
135-98-8	sec-Butylbenzene	4.1	U	4.1
142-28-9	1,3-Dichloropropane	4.1	U	4.1
156-59-2	cis-1,2-Dichloroethene	2.1	U	2.1
156-60-5	trans-1,2-Dichloroethene	2.1	U	2.1
1634-04-4	Methyl tert-butyl ether	17	U	17
179601-23-1	m-Xylene & p-Xylene	2.1	U	2.1
541-73-1	1,3-Dichlorobenzene	4.1	U	4.1
56-23-5	Carbon tetrachloride	4.1	U	4.1
563-58-6	1,1-Dichloropropene	4.1	U	4.1
591-78-6	2-Hexanone	17	U	17

2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190468-1
SDG No.:
Client Sample ID: SS-02-04222024 | Lab Sample ID: 280-190468-2
Matrix: Solid | Lab File ID: MS12_044684.D
Analysis Method: 8260D | Date Collected: 04/22/2024 11:05
Sample wt/vol: 6.032(g) | Date Analyzed: 04/24/2024 13:55
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 650746 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
594-20-7	2,2-Dichloropropane	4.1	U	4.1
60-29-7	Ethyl ether	8.3	U	8.3
630-20-6	1,1,1,2-Tetrachloroethane	4.1	U	4.1
67-64-1	Acetone	66	U	66
67-66-3	Chloroform	8.3	U	8.3
71-43-2	Benzene	4.1	U	4.1
71-55-6	1,1,1-Trichloroethane	4.1	U	4.1
74-83-9	Bromomethane	8.3	U	8.3
74-87-3	Chloromethane	8.3	U	8.3
74-88-4	Iodomethane	4.1	U	4.1
74-95-3	Dibromomethane	4.1	U	4.1
74-97-5	Chlorobromomethane	4.1	U	4.1
75-00-3	Chloroethane	8.3	U	8.3
75-01-4	Vinyl chloride	4.1	U	4.1
75-09-2	Methylene Chloride	4.1	U	4.1
75-15-0	Carbon disulfide	4.1	U	4.1
75-25-2	Bromoform	4.1	U	4.1
75-27-4	Dichlorobromomethane	4.1	U	4.1
75-34-3	1,1-Dichloroethane	4.1	U	4.1
75-35-4	1,1-Dichloroethene	4.1	U	4.1
75-69-4	Trichlorofluoromethane	8.3	U	8.3
75-71-8	Dichlorodifluoromethane	8.3	U	8.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17	U	17
78-87-5	1,2-Dichloropropane	4.1	U	4.1
78-93-3	2-Butanone (MEK)	17	U	17
79-00-5	1,1,2-Trichloroethane	4.1	U	4.1
79-01-6	Trichloroethene	4.1	U	4.1
79-20-9	Methyl acetate	8.3	U	8.3
79-34-5	1,1,2,2-Tetrachloroethane	4.1	U	4.1
87-61-6	1,2,3-Trichlorobenzene	4.1	U	4.1
87-68-3	Hexachlorobutadiene	4.1	U	4.1
91-20-3	Naphthalene	5.5	U	5.5
95-47-6	o-Xylene	2.1	U	2.1

2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190468-1

SDG No.:

Client Sample ID: SS-02-04222024 | Lab Sample ID: 280-190468-2

Matrix: Solid | Lab File ID: MS12_044684.D

Analysis Method: 8260D | Date Collected: 04/22/2024 11:05

Sample wt/vol: 6.032(g) | Date Analyzed: 04/24/2024 13:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 650746 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-49-8	2-Chlorotoluene	4.1	U	4.1
95-50-1	1,2-Dichlorobenzene	4.1	U	4.1
95-63-6	1,2,4-Trimethylbenzene	4.1	U	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	8.3	U	8.3
96-18-4	1,2,3-Trichloropropane	4.1	U	4.1
97-63-2	Ethyl methacrylate	4.1	U	4.1
98-06-6	tert-Butylbenzene	4.1	U	4.1
98-82-8	Isopropylbenzene	4.1	U	4.1
99-87-6	4-Isopropyltoluene	4.1	U	4.1
1330-20-7	Xylenes, Total	4.1	U	4.1
540-59-0	1,2-Dichloroethene, Total	4.1	U	4.1
542-75-6	1,3-Dichloropropene, Total	4.1	U	4.1
STL00208	Trihalomethanes, Total	8.3	U	8.3
STL00431	Total BTEX	4.1	U	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		58-140
1868-53-7	Dibromofluoromethane (Surr)	98		75-121
2037-26-5	Toluene-d8 (Surr)	101		80-126
460-00-4	4-Bromofluorobenzene (Surr)	103		76-127

MF 6/11/24

ENVIRONMENTAL
Data Services, Inc.

DATA VALIDATION SUMMARY REPORT
ABC CLEANERS, NORTH CAROLINA

Client: EA Engineering, Science & Technology, Inc., Hunt Valley, Maryland
SDG: 280-190830-1
Laboratory: Eurofins, Denver, Colorado
Site: ABC Cleaners, North Carolina
Date: June 18, 2024

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	Post-SO-Shallow SVE-1-04302024	280-190830-1	Soil
2*	Post-SO-Shallow SVE-2-04302024	280-190830-2	Soil
3	Post-SO-Shallow SVE-3-04302024	280-190830-3	Soil
4	Post-SO-Shallow SVE-4-04302024	280-190830-4	Soil
5	Post-SO-Shallow SVE-5-04302024	280-190830-5	Soil
6	Post-SO-Shallow SVE-6-04302024	280-190830-6	Soil

*Stage 4 review

A Stage 2B/4 data validation was performed on the analytical data for six soil samples collected on April 30, 2024 by EA Engineering at the ABC Cleaners site in North Carolina. The samples were analyzed under the Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions.

Specific method references are as follows:

Analysis	*Method References*
VOCs	SW846 Method 8260D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, the Sampling and Analysis Plan and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," November 2020;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Holding times and sample preservation
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination

- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes. There were no qualifications.

Volatile Organic Compounds (VOC)

Holding Times

- All samples were analyzed within 14 days for soil samples.

GC/MS Tuning

- All criteria were met

Initial Calibration

- All percent relative standard deviation (%RSD) and/or correlation coefficients and mean relative response factor (RRF) criteria were met.

Continuing Calibration

- All %D and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- Field QC samples were not collected.

Surrogate Spike **Recoveries**

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples Laboratory Control Sample Duplicates (LCS/LCSD)

- The LCS/LCSD samples exhibited acceptable percent recoveries (%R) and RPD valu.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target **Compound Identification**

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 6/21/24

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Reason Code	Definition
HT	Holding Time
MB	Method Blank
SURR	Surrogate
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
CB/CCB	Calibration Blank or Continuing Calibration Blank
CCV	Calibration Verification
SD	ICP Serial Dilution
TB	Trip Blank
EB	Equipment Blank
FB	Field Blank
FD	Field Duplicate
CQ	Compound Quantitation
IS	Internal Standard

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-1-04302024 | Lab Sample ID: 280-190830-1

Matrix: Solid | Lab File ID: MS13_010469.D

Analysis Method: 8260D | Date Collected: 04/30/2024 11:30

Sample wt/vol: 5.365(g) | Date Analyzed: 05/08/2024 15:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.1 % Solids: 85.9 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.4	U	5.4
100-42-5	Styrene	5.4	U	5.4
10061-01-5	cis-1,3-Dichloropropene	5.4	U	5.4
10061-02-6	trans-1,3-Dichloropropene	5.4	U	5.4
103-65-1	N-Propylbenzene	5.4	U	5.4
104-51-8	n-Butylbenzene	5.4	U	5.4
106-43-4	4-Chlorotoluene	5.4	U	5.4
106-46-7	1,4-Dichlorobenzene	5.4	U	5.4
106-93-4	Ethylene Dibromide	5.4	U	5.4
107-05-1	3-Chloro-1-propene	11	U	11
107-06-2	1,2-Dichloroethane	5.4	U	5.4
108-05-4	Vinyl acetate	11	U	11
108-10-1	4-Methyl-2-pentanone (MIBK)	22	U	22
108-67-8	1,3,5-Trimethylbenzene	5.4	U	5.4
108-86-1	Bromobenzene	5.4	U	5.4
108-87-2	Methylcyclohexane	5.4	U	5.4
108-88-3	Toluene	5.4	U	5.4
108-90-7	Chlorobenzene	5.4	U	5.4
109-99-9	Tetrahydrofuran	22	U	22
110-54-3	Hexane	5.4	U	5.4
110-82-7	Cyclohexane	5.4	U	5.4
120-82-1	1,2,4-Trichlorobenzene	5.4	U	5.4
124-48-1	Chlorodibromomethane	5.4	U	5.4
127-18-4	Tetrachloroethene	5.4	U	5.4
135-98-8	sec-Butylbenzene	5.4	U	5.4
142-28-9	1,3-Dichloropropane	5.4	U	5.4
156-59-2	cis-1,2-Dichloroethene	2.7	U	2.7
156-60-5	trans-1,2-Dichloroethene	2.7	U	2.7
1634-04-4	Methyl tert-butyl ether	22	U	22
179601-23-1	m-Xylene & p-Xylene	2.7	U	2.7
541-73-1	1,3-Dichlorobenzene	5.4	U	5.4
56-23-5	Carbon tetrachloride	5.4	U	5.4
563-58-6	1,1-Dichloropropene	5.4	U	5.4

FORM I

GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-1-04302024 | Lab Sample ID: 280-190830-1

Matrix: Solid | Lab File ID: MS13_010469.D

Analysis Method: 8260D | Date Collected: 04/30/2024 11:30

Sample wt/vol: 5.365(g) | Date Analyzed: 05/08/2024 15:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.1 % Solids: 85.9 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
591-78-6	2-Hexanone	22	U	22
594-20-7	2,2-Dichloropropane	5.4	U	5.4
60-29-7	Ethyl ether	11	U	11
630-20-6	1,1,1,2-Tetrachloroethane	5.4	U	5.4
67-64-1	Acetone	87	U	87
67-66-3	Chloroform	11	U	11
71-43-2	Benzene	5.4	U	5.4
71-55-6	1,1,1-Trichloroethane	5.4	U	5.4
74-83-9	Bromomethane	11	U	11
74-87-3	Chloromethane	11	U	11
74-88-4	Iodomethane	5.4	U	5.4
74-95-3	Dibromomethane	5.4	U	5.4
74-97-5	Chlorobromomethane	5.4	U	5.4
75-00-3	Chloroethane	11	U	11
75-01-4	Vinyl chloride	5.4	U	5.4
75-09-2	Methylene Chloride	5.4	U	5.4
75-15-0	Carbon disulfide	5.4	U	5.4
75-25-2	Bromoform	5.4	U	5.4
75-27-4	Dichlorobromomethane	5.4	U	5.4
75-34-3	1,1-Dichloroethane	5.4	U	5.4
75-35-4	1,1-Dichloroethene	5.4	U	5.4
75-69-4	Trichlorofluoromethane	11	U	11
75-71-8	Dichlorodifluoromethane	11	U	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22	U	22
78-87-5	1,2-Dichloropropane	5.4	U	5.4
78-93-3	2-Butanone (MEK)	22	U	22
79-00-5	1,1,2-Trichloroethane	5.4	U	5.4
79-01-6	Trichloroethene	5.4	U	5.4
79-20-9	Methyl acetate	11	U	11
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U	5.4
87-61-6	1,2,3-Trichlorobenzene	5.4	U	5.4
87-68-3	Hexachlorobutadiene	5.4	U	5.4
91-20-3	Naphthalene	7.2	U	7.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-1-04302024 | Lab Sample ID: 280-190830-1

Matrix: Solid | Lab File ID: MS13_010469.D

Analysis Method: 8260D | Date Collected: 04/30/2024 11:30

Sample wt/vol: 5.365(g) | Date Analyzed: 05/08/2024 15:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 14.1 % Solids: 85.9 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	2.7	U	2.7	
95-49-8	2-Chlorotoluene	5.4	U	5.4	
95-50-1	1,2-Dichlorobenzene	5.4	U	5.4	
95-63-6	1,2,4-Trimethylbenzene	5.4	U	5.4	
96-12-8	1,2-Dibromo-3-Chloropropane	11	U	11	
96-18-4	1,2,3-Trichloropropane	5.4	U	5.4	
97-63-2	Ethyl methacrylate	5.4	U	5.4	
98-06-6	tert-Butylbenzene	5.4	U	5.4	
98-82-8	Isopropylbenzene	5.4	U	5.4	
99-87-6	4-Isopropyltoluene	5.4	U	5.4	
1330-20-7	Xylenes, Total	5.4	U	5.4	
540-59-0	1,2-Dichloroethene, Total	5.4	U	5.4	
542-75-6	1,3-Dichloropropene, Total	5.4	U	5.4	
STL00209	Trihalomethanes, Total	11	U	11	
STL00431	Total BTEX	5.4	U	5.4	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		50-140
1868-53-7	Dibromofluoromethane (Surr)	94		75-121
2037-26-5	Toluene-d8 (Surr)	121		80-126
460-00-4	4-Bromofluorobenzene (Surr)	122		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-2-04302024 | Lab Sample ID: 280-190830-2

Matrix: Solid | Lab File ID: MS13_010470.D

Analysis Method: 8260D | Date Collected: 04/30/2024 11:45

Sample wt/vol: 6.001(g) | Date Analyzed: 05/08/2024 15:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 13.6 % Solids: 86.4 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	4.8	U	4.8
100-42-5	Styrene	4.8	U	4.8
10061-01-5	cis-1,3-Dichloropropene	4.8	U	4.8
10061-02-6	trans-1,3-Dichloropropene	4.8	U	4.8
103-65-1	N-Propylbenzene	4.8	U	4.8
104-51-8	n-Butylbenzene	4.8	U	4.8
106-43-4	4-Chlorotoluene	4.8	U	4.8
106-46-7	1,4-Dichlorobenzene	4.8	U	4.8
106-93-4	Ethylene Dibromide	4.8	U	4.8
107-05-1	3-Chloro-1-propene	9.6	U	9.6
107-06-2	1,2-Dichloroethane	4.8	U	4.8
108-05-4	Vinyl acetate	9.6	U	9.6
108-10-1	4-Methyl-2-pentanone (MIBK)	19	U	19
108-67-8	1,3,5 Trimethylbenzene	4.8	U	4.8
108-86-1	Bromobenzene	4.8	U	4.8
108-87-2	Methylcyclohexane	4.8	U	4.8
108-88-3	Toluene	4.8	U	4.8
108-90-7	Chlorobenzene	4.8	U	4.8
109-99-9	Tetrahydrofuran	19	U	19
110-54-3	Hexane	4.8	U	4.8
110-82-7	Cyclohexane	4.8	U	4.8
120-82-1	1,2,4-Trichlorobenzene	4.8	U	4.8
124-48-1	Chlorodibromomethane	4.8	U	4.8
127-18-4	Tetrachloroethene	4.8	U	4.8
135-98-8	sec-Butylbenzene	4.8	U	4.8
142-28-9	1,3-Dichloropropane	4.8	U	4.8
156-59-2	cis-1,2-Dichloroethene	2.4	U	2.4
156-60-5	trans-1,2-Dichloroethene	2.4	U	2.4
1634-04-4	Methyl tert-butyl ether	19	U	19
179601-23-1	m-Xylene & p-Xylene	2.4	U	2.4
541-73-1	1,3-Dichlorobenzene	4.8	U	4.8
56-23-5	Carbon tetrachloride	4.8	U	4.8
563-58-6	1,1-Dichloropropene	4.8	U	4.8

MM 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-2-04302024 | Lab Sample ID: 280-190830-2

Matrix: Solid | Lab File ID: MS13_010470.D

Analysis Method: 8260D | Date Collected: 04/30/2024 11:45

Sample wt/vol: 6.001(g) | Date Analyzed: 05/08/2024 15:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 13.6 % Solids: 86.4 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
591-78-6	2-Hexanone	19	U	19
594-20-7	2,2-Dichloropropane	4.8	U	4.8
60-29-7	Ethyl ether	9.6	U	9.6
630-20-6	1,1,1,2-Tetrachloroethane	4.8	U	4.8
67-64-1	Acetone	77	U	77
67-66-3	Chloroform	9.6	U	9.6
71-43-2	Benzene	4.8	U	4.8
71-55-6	1,1,1-Trichloroethane	4.8	U	4.8
74-83-9	Bromomethane	9.6	U	9.6
74-87-3	Chloromethane	9.6	U	9.6
74-88-4	Iodomethane	4.8	U	4.8
74-95-3	Dibromomethane	4.8	U	4.8
74-97-5	Chlorobromomethane	4.8	U	4.8
75-00-3	Chloroethane	9.6	U	9.6
75-01-4	Vinyl chloride	4.8	U	4.8
75-09-2	Methylene Chloride	4.8	U	4.8
75-15-0	Carbon disulfide	4.8	U	4.8
75-25-2	Bromoform	4.8	U	4.8
75-27-4	Dichlorobromomethane	4.8	U	4.8
75-34-3	1,1-Dichloroethane	4.8	U	4.8
75-35-4	1,1-Dichloroethene	4.8	U	4.8
75-69-4	Trichlorofluoromethane	9.6	U	9.6
75-71-8	Dichlorodifluoromethane	9.6	U	9.6
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19	U	19
78-87-5	1,2-Dichloropropane	4.8	U	4.8
78-93-3	2-Butanone (MEK)	19	U	19
79-00-5	1,1,2-Trichloroethane	4.8	U	4.8
79-01-6	Trichloroethene	4.8	U	4.8
79-20-9	Methyl acetate	9.6	U	9.6
79-34-5	1,1,2,2-Tetrachloroethane	4.8	U	4.8
87-61-6	1,2,3-Trichlorobenzene	4.8	U	4.8
87-68-3	Hexachlorobutadiene	4.8	U	4.8
91-20-3	Naphthalene	6.4	U	6.4

MM 6/18/24

2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-2-04302024 | Lab Sample ID: 280-190830-2

Matrix: Solid | Lab File ID: MS13_010470.D

Analysis Method: 8260D | Date Collected: 04/30/2024 11:45

Sample wt/vol: 6.001(g) | Date Analyzed: 05/08/2024 15:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 13.6 % Solids: 86.4 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	2.4	U	2.4	
95-49-8	2-Chlorotoluene	4.8	U	4.8	
95-50-1	1,2-Dichlorobenzene	4.8	U	4.8	
95-63-6	1,2,4-Trimethylbenzene	4.8	U	4.8	
96-12-8	1,2-Dibromo-3-Chloropropane	9.6	U	9.6	
96-18-4	1,2,3-Trichloropropane	4.8	U	4.8	
97-63-2	Ethyl methacrylate	4.8	U	4.8	
98-06-6	tert-Butylbenzene	4.8	U	4.8	
98-82-8	Isopropylbenzene	4.8	U	4.8	
99-87-6	4-Isopropyltoluene	4.8	U	4.8	
1330-20-7	Xylenes, Total	4.8	U	4.8	
540-59-0	1,2-Dichloroethene, Total	4.8	U	4.8	
542-75-6	1,3-Dichloropropene, Total	4.8	U	4.8	
STL00209	Trihalomethanes, Total	9.6	U	9.6	
STL00431	Total BTEX	4.8	U	4.8	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		50-140
1868-53-7	Dibromofluoromethane (Surr)	93		75-121
2037-26-5	Toluene-d8 (Surr)	110		80-126
460-00-4	4-Bromofluorobenzene (Surr)	114		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-3-04302024 | Lab Sample ID: 280-190830-3

Matrix: Solid | Lab File ID: MS13_010471.D

Analysis Method: 8260D | Date Collected: 04/30/2024 12:00

Sample wt/vol: 5.379(g) | Date Analyzed: 05/08/2024 16:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 11.6 % Solids: 88.4 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.3	U	5.3
100-42-5	Styrene	5.3	U	5.3
10061-01-5	cis-1,3-Dichloropropene	5.3	U	5.3
10061-02-6	trans-1,3-Dichloropropene	5.3	U	5.3
103-65-1	N-Propylbenzene	5.3	U	5.3
104-51-8	n-Butylbenzene	5.3	U	5.3
106-43-4	4-Chlorotoluene	5.3	U	5.3
106-46-7	1,4-Dichlorobenzene	5.3	U	5.3
106-93-4	Ethylene Dibromide	5.3	U	5.3
107-05-1	3-Chloro-1-propene	11	U	11
107-06-2	1,2-Dichloroethane	5.3	U	5.3
108-05-4	Vinyl acetate	11	U	11
108-10-1	4-Methyl-2-pentanone (MIBK)	21	U	21
108-67-8	1,3,5-Trimethylbenzene	5.3	U	5.3
108-86-1	Bromobenzene	5.3	U	5.3
108-87-2	Methylcyclohexane	5.3	U	5.3
108-88-3	Toluene	5.3	U	5.3
108-90-7	Chlorobenzene	5.3	U	5.3
109-99-9	Tetrahydrofuran	21	U	21
110-54-3	Hexane	5.3	U	5.3
110-82-7	Cyclohexane	5.3	U	5.3
120-82-1	1,2,4-Trichlorobenzene	5.3	U	5.3
124-48-1	Chlorodibromomethane	5.3	U	5.3
127-18-4	Tetrachloroethene	5.3	U	5.3
135-98-8	sec-Butylbenzene	5.3	U	5.3
142-28-9	1,3-Dichloropropane	5.3	U	5.3
156-59-2	cis-1,2-Dichloroethene	2.6	U	2.6
156-60-5	trans-1,2-Dichloroethene	2.6	U	2.6
1634-04-4	Methyl tert-butyl ether	21	U	21
179601-23-1	m-Xylene & p-Xylene	2.6	U	2.6
541-73-1	1,3-Dichlorobenzene	5.3	U	5.3
56-23-5	Carbon tetrachloride	5.3	U	5.3
563-58-6	1,1-Dichloropropene	5.3	U	5.3

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-3-04302024 | Lab Sample ID: 280-190830-3

Matrix: Solid | Lab File ID: MS13_010471.D

Analysis Method: 8260D | Date Collected: 04/30/2024 12:00

Sample wt/vol: 5.379(g) | Date Analyzed: 05/08/2024 16:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 11.6 % Solids: 88.4 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	21	U	21	
594-20-7	2,2-Dichloropropane	5.3	U	5.3	
60-29-7	Ethyl ether	11	U	11	
630-20-6	1,1,1,2-Tetrachloroethane	5.3	U	5.3	
67-64-1	Acetone	84	U	84	
67-66-3	Chloroform	11	U	11	
71-43-2	Benzene	5.3	U	5.3	
71-55-6	1,1,1-Trichloroethane	5.3	U	5.3	
74-83-9	Bromomethane	11	U	11	
74-87-3	Chloromethane	11	U	11	
74-88-4	Iodomethane	5.3	U	5.3	
74-95-3	Dibromomethane	5.3	U	5.3	
74-97-5	Chlorobromomethane	5.3	U	5.3	
75-00-3	Chloroethane	11	U	11	
75-01-4	Vinyl chloride	5.3	U	5.3	
75-09-2	Methylene Chloride	5.3	U	5.3	
75-15-0	Carbon disulfide	5.3	U	5.3	
75-25-2	Bromoform	5.3	U	5.3	
75-27-4	Dichlorobromomethane	5.3	U	5.3	
75-34-3	1,1-Dichloroethane	5.3	U	5.3	
75-35-4	1,1-Dichloroethene	5.3	U	5.3	
75-69-4	Trichlorofluoromethane	11	U	11	
75-71-8	Dichlorodifluoromethane	11	U	11	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21	
78-87-5	1,2-Dichloropropane	5.3	U	5.3	
78-93-3	2-Butanone (MEK)	21	U	21	
79-00-5	1,1,2-Trichloroethane	5.3	U	5.3	
79-01-6	Trichloroethene	5.3	U	5.3	
79-20-9	Methyl acetate	11	U	11	
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U	5.3	
87-61-6	1,2,3-Trichlorobenzene	5.3	U	5.3	
87-68-3	Hexachlorobutadiene	5.3	U	5.3	
91-20-3	Naphthalene	6.9	U	6.9	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-3-04302024 | Lab Sample ID: 280-190830-3

Matrix: Solid | Lab File ID: MS13 010471.D

Analysis Method: 8260D | Date Collected: 04/30/2024 12:00

Sample wt/vol: 5.379(g) | Date Analyzed: 05/08/2024 16:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 11.6 % Solids: 88.4 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	2.6	U	2.6
95-49-8	2-Chlorotoluene	5.3	U	5.3
95-50-1	1,2-Dichlorobenzene	5.3	U	5.3
95-63-6	1,2,4-Trimethylbenzene	5.3	U	5.3
96-12-8	1,2-Dibromo-3-Chloropropane	11	U	11
96-18-4	1,2,3-Trichloropropane	5.3	U	5.3
97-63-2	Ethyl methacrylate	5.3	U	5.3
98-06-6	tert-Butylbenzene	5.3	U	5.3
98-82-8	Isopropylbenzene	5.3	U	5.3
99-87-6	4-Isopropyltoluene	5.3	U	5.3
1330-20-7	Xylenes, Total	5.3	U	5.3
540-59-0	1,2-Dichloroethene, Total	5.3	U	5.3
542-75-6	1,3-Dichloropropene, Total	5.3	U	5.3
STL00209	Trihalomethanes, Total	11	U	11
STL00431	Total BTEX	5.3	U	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		58-140
1868-53-7	Dibromofluoromethane (Surr)	92		75-121
2037-26-5	Toluene-d8 (Surr)	110		80-126
460-00-4	4-Bromofluorobenzene (Surr)	116		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-4-04302024 | Lab Sample ID: 280-190830-4

Matrix: Solid | Lab File ID: MS13_010472.D

Analysis Method: 8260D | Date Collected: 04/30/2024 12:15

Sample wt/vol: 5.521(g) | Date Analyzed: 05/08/2024 16:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 11.3 % Solids: 88.7 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-41-4	Ethylbenzene	5.1	U	5.1	
100-42-5	Styrene	5.1	U	5.1	
10061-01-5	cis-1,3-Dichloropropene	5.1	U	5.1	
10061-02-6	trans-1,3-Dichloropropene	5.1	U	5.1	
103-65-1	N-Propylbenzene	5.1	U	5.1	
104-51-8	n-Butylbenzene	5.1	U	5.1	
106-43-4	4-Chlorotoluene	5.1	U	5.1	
106-46-7	1,4-Dichlorobenzene	5.1	U	5.1	
106-93-4	Ethylene Dibromide	5.1	U	5.1	
107-05-1	3-Chloro-1-propene	10	U	10	
107-06-2	1,2-Dichloroethane	5.1	U	5.1	
108-05-4	Vinyl acetate	10	U	10	
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U	20	
108-67-8	1,3,5-Trimethylbenzene	5.1	U	5.1	
108-86-1	Bromobenzene	5.1	U	5.1	
108-87-2	Methylcyclohexane	5.1	U	5.1	
108-88-3	Toluene	5.1	U	5.1	
108-90-7	Chlorobenzene	5.1	U	5.1	
109-99-9	Tetrahydrofuran	20	U	20	
110-54-3	Hexane	5.1	U	5.1	
110-82-7	Cyclohexane	5.1	U	5.1	
120-82-1	1,2,4-Trichlorobenzene	5.1	U	5.1	
124-48-1	Chlorodibromomethane	5.1	U	5.1	
127-18-4	Tetrachloroethene	5.1	U	5.1	
135-98-8	sec-Butylbenzene	5.1	U	5.1	
142-28-9	1,3-Dichloropropane	5.1	U	5.1	
156-59-2	cis-1,2-Dichloroethene	2.6	U	2.6	
156-60-5	trans-1,2-Dichloroethene	2.6	U	2.6	
1634-04-4	Methyl tert-butyl ether	20	U	20	
179601-23-1	m-Xylene & p-Xylene	2.6	U	2.6	
541-73-1	1,3-Dichlorobenzene	5.1	U	5.1	
56-23-5	Carbon tetrachloride	5.1	U	5.1	
563-58-6	1,1-Dichloropropene	5.1	U	5.1	

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-4-04302024 | Lab Sample ID: 280-190830-4

Matrix: Solid | Lab File ID: MS13_010472.D

Analysis Method: 8260D | Date Collected: 04/30/2024 12:15

Sample wt/vol: 5.521(g) | Date Analyzed: 05/08/2024 16:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 11.3 % Solids: 88.7 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
591-78-6	2-Hexanone	20	U	20
594-20-7	2,2-Dichloropropane	5.1	U	5.1
60-29-7	Ethyl ether	10	U	10
630-20-6	1,1,1,2-Tetrachloroethane	5.1	U	5.1
67-64-1	Acetone	82	U	82
67-66-3	Chloroform	10	U	10
71-43-2	Benzene	5.1	U	5.1
71-55-6	1,1,1-Trichloroethane	5.1	U	5.1
74-83-9	Bromomethane	10	U	10
74-87-3	Chloromethane	10	U	10
74-88-4	Iodomethane	5.1	U	5.1
74-95-3	Dibromomethane	5.1	U	5.1
74-97-5	Chlorobromomethane	5.1	U	5.1
75-00-3	Chloroethane	10	U	10
75-01-4	Vinyl chloride	5.1	U	5.1
75-09-2	Methylene Chloride	5.1	U	5.1
75-15-0	Carbon disulfide	5.1	U	5.1
75-25-2	Bromoform	5.1	U	5.1
75-27-4	Dichlorobromomethane	5.1	U	5.1
75-34-3	1,1-Dichloroethane	5.1	U	5.1
75-35-4	1,1-Dichloroethene	5.1	U	5.1
75-69-4	Trichlorofluoromethane	10	U	10
75-71-8	Dichlorodifluoromethane	10	U	10
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20
78-87-5	1,2-Dichloropropane	5.1	U	5.1
78-93-3	2-Butanone (MEK)	20	U	20
79-00-5	1,1,2-Trichloroethane	5.1	U	5.1
79-01-6	Trichloroethene	5.1	U	5.1
79-20-9	Methyl acetate	10	U	10
79-34-5	1,1,2,2-Tetrachloroethane	5.1	U	5.1
87-61-6	1,2,3-Trichlorobenzene	5.1	U	5.1
87-68-3	Hexachlorobutadiene	5.1	U	5.1
91-20-3	Naphthalene	6.7	U	6.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-4-04302024 | Lab Sample ID: 280-190830-4

Matrix: Solid | Lab File ID: MS13_010472.D

Analysis Method: 8260D | Date Collected: 04/30/2024 12:15

Sample wt/vol: 5.521(g) | Date Analyzed: 05/08/2024 16:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 11.3 % Solids: 88.7 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	2.6	U	2.6
95-49-8	2-Chlorotoluene	5.1	U	5.1
95-50-1	1,2-Dichlorobenzene	5.1	U	5.1
95-63-6	1,2,4-Trimethylbenzene	5.1	U	5.1
96-12-8	1,2-Dibromo-3-Chloropropane	10	U	10
96-18-4	1,2,3-Trichloropropane	5.1	U	5.1
97-63-2	Ethyl methacrylate	5.1	U	5.1
98-06-6	tert-Butylbenzene	5.1	U	5.1
98-82-8	Isopropylbenzene	5.1	U	5.1
99-87-6	4-Isopropyltoluene	5.1	U	5.1
1330-20-7	Xylenes, Total	5.1	U	5.1
540-59-0	1,2-Dichloroethene, Total	5.1	U	5.1
542-75-6	1,3-Dichloropropene, Total	5.1	U	5.1
STL00209	Trihalomethanes, Total	10	U	10
STL00431	Total BTEX	5.1	U	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		58-140
1868-53-7	Dibromofluoromethane (Surr)	95		75-121
2037-26-5	Toluene-d8 (Surr)	111		80-126
460-00-4	4-Bromofluorobenzene (Surr)	123		76-127

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-5-04302024 | Lab Sample ID: 280-190830-5

Matrix: Solid | Lab File ID: MS13_010473.D

Analysis Method: 8260D | Date Collected: 04/30/2024 12:30

Sample wt/vol: 5.029(g) | Date Analyzed: 05/08/2024 16:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 22.3 % Solids: 77.7 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-41-4	Ethylbenzene	6.4	U	6.4	
100-42-5	Styrene	6.4	U	6.4	
10061-01-5	cis-1,3-Dichloropropene	6.4	U	6.4	
10061-02-6	trans-1,3-Dichloropropene	6.4	U	6.4	
103-65-1	N-Propylbenzene	6.4	U	6.4	
104-51-8	n-Butylbenzene	6.4	U	6.4	
106-43-4	4-Chlorotoluene	6.4	U	6.4	
106-46-7	1,4-Dichlorobenzene	6.4	U	6.4	
106-93-4	Ethylene Dibromide	6.4	U	6.4	
107-05-1	3-Chloro-1-propene	13	U	13	
107-06-2	1,2-Dichloroethane	6.4	U	6.4	
108-05-4	Vinyl acetate	13	U	13	
108-10-1	4-Methyl-2-pentanone (MIBK)	26	U	26	
108-67-8	1,3,5-Trimethylbenzene	6.4	U	6.4	
108-86-1	Bromobenzene	6.4	U	6.4	
108-87-2	Methylcyclohexane	6.4	U	6.4	
108-88-3	Toluene	6.4	U	6.4	
108-90-7	Chlorobenzene	6.4	U	6.4	
109-99-9	Tetrahydrofuran	26	U	26	
110-54-3	Hexane	6.4	U	6.4	
110-82-7	Cyclohexane	6.4	U	6.4	
120-82-1	1,2,4-Trichlorobenzene	6.4	U	6.4	
124-48-1	Chlorodibromomethane	6.4	U	6.4	
127-18-4	Tetrachloroethene	6.4	U	6.4	
135-98-8	sec-Butylbenzene	6.4	U	6.4	
142-28-9	1,3-Dichloropropane	6.4	U	6.4	
156-59-2	cis-1,2-Dichloroethene	3.2	U	3.2	
156-60-5	trans-1,2-Dichloroethene	3.2	U	3.2	
1634-04-4	Methyl tert-butyl ether	26	U	26	
179601-23-1	m-Xylene & p-Xylene	3.2	U	3.2	
541-73-1	1,3-Dichlorobenzene	6.4	U	6.4	
56-23-5	Carbon tetrachloride	6.4	U	6.4	
563-58-6	1,1-Dichloropropene	6.4	U	6.4	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-5-04302024 Lab Sample ID: 280-190830-5

Matrix: Solid Lab File ID: MS13_010473.D

Analysis Method: 8260D Date Collected: 04/30/2024 12:30

Sample wt/vol: 5.029(g) Date Analyzed: 05/08/2024 16:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: 22.3 % Solids: 77.7 Level: (low/med) Low

Analysis Batch No.: 652565 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
591-78-6	2-Hexanone	26	U	26
594-20-7	2,2-Dichloropropane	6.4	U	6.4
60-29-7	Ethyl ether	13	U	13
630-20-6	1,1,1,2-Tetrachloroethane	6.4	U	6.4
67-64-1	Acetone	100	U	100
67-66-3	Chloroform	13	U	13
71-43-2	Benzene	6.4	U	6.4
71-55-6	1,1,1-Trichloroethane	6.4	U	6.4
74-83-9	Bromomethane	13	U	13
74-87-3	Chloromethane	13	U	13
74-88-4	Iodomethane	6.4	U	6.4
74-95-3	Dibromomethane	6.4	U	6.4
74-97-5	Chlorobromomethane	6.4	U	6.4
75-00-3	Chloroethane	13	U	13
75-01-4	Vinyl chloride	6.4	U	6.4
75-09-2	Methylene Chloride	6.4	U	6.4
75-15-0	Carbon disulfide	6.4	U	6.4
75-25-2	Bromoform	6.4	U	6.4
75-27-4	Dichlorobromomethane	6.4	U	6.4
75-34-3	1,1-Dichloroethane	6.4	U	6.4
75-35-4	1,1-Dichloroethene	6.4	U	6.4
75-69-4	Trichlorofluoromethane	13	U	13
75-71-8	Dichlorodifluoromethane	13	U	13
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26	U	26
78-87-5	1,2-Dichloropropane	6.4	U	6.4
78-93-3	2-Butanone (MEK)	26	U	26
79-00-5	1,1,2-Trichloroethane	6.4	U	6.4
79-01-6	Trichloroethene	6.4	U	6.4
79-20-9	Methyl acetate	13	U	13
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U	6.4
87-61-6	1,2,3-Trichlorobenzene	6.4	U	6.4
87-68-3	Hexachlorobutadiene	6.4	U	6.4
91-20-3	Naphthalene	8.4	U	8.4

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-5-04302024 | Lab Sample ID: 280-190830-5

Matrix: Solid | Lab File ID: MS13_010473.D

Analysis Method: 8260D | Date Collected: 04/30/2024 12:30

Sample wt/vol: 5.029(g) | Date Analyzed: 05/08/2024 16:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 22.3 % Solids: 77.7 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	5.4	U	5.4
95-49-8	2-Chlorotoluene	6.4	U	6.4
95-50-1	1,2-Dichlorobenzene	6.4	U	6.4
95-63-6	1,2,4-Trimethylbenzene	6.4	U	6.4
96-12-8	1,2-Dibromo-3-Chloropropane	13	U	13
96-18-4	1,2,3-Trichloropropane	6.4	U	6.4
97-63-2	Ethyl methacrylate	6.4	U	6.4
98-06-6	tert-Butylbenzene	6.4	U	6.4
98-82-8	Isopropylbenzene	6.4	U	6.4
99-87-6	4-Isopropyltoluene	6.4	U	6.4
1330-20-7	Xylenes, Total	6.4	U	6.4
540-59-0	1,2-Dichloroethene, Total	6.4	U	6.4
542-75-6	1,3-Dichloropropene, Total	6.4	U	6.4
STL00209	Trihalomethanes, Total	13	U	13
STL00431	Total BTEX	6.4	U	6.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		58-140
1868-53-7	Dibromofluoromethane (Surr)	91		75-121
2037-26-5	Toluene-d8 (Surr)	110		80-126
460-00-4	4-Bromofluorobenzene (Surr)	126		76-127

MS 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-6-04302024 | Lab Sample ID: 280-190830-6

Matrix: Solid | Lab File ID: MS13_010474.D

Analysis Method: 8260D | Date Collected: 04/30/2024 12:45

Sample wt/vol: 5.415(g) | Date Analyzed: 05/08/2024 17:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 12.9 % Solids: 87.1 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	5.3	U	5.3
100-42-5	Styrene	5.3	U	5.3
10061-01-5	cis-1,3-Dichloropropene	5.3	U	5.3
10061-02-6	trans-1,3-Dichloropropene	5.3	U	5.3
103-65-1	N-Propylbenzene	5.3	U	5.3
104-51-8	n-Butylbenzene	5.3	U	5.3
106-43-4	4-Chlorotoluene	5.3	U	5.3
106-46-7	1,4-Dichlorobenzene	5.3	U	5.3
106-93-4	Ethylene Dibromide	5.3	U	5.3
107-05-1	3-Chloro-1-propene	11	U	11
107-06-2	1,2-Dichloroethane	5.3	U	5.3
108-05-4	Vinyl acetate	11	U	11
108-10-1	4-Methyl-2-pentanone (MIBK)	21	U	21
108-67-8	1,3,5-Trimethylbenzene	5.3	U	5.3
108-86-1	Bromobenzene	5.3	U	5.3
108-87-2	Methylcyclohexane	5.3	U	5.3
108-88-3	Toluene	5.3	U	5.3
108-90-7	Chlorobenzene	5.3	U	5.3
109-99-9	Tetrahydrofuran	21	U	21
110-54-3	Hexane	5.3	U	5.3
110-82-7	Cyclohexane	5.3	U	5.3
120-82-1	1,2,4-Trichlorobenzene	5.3	U	5.3
124-48-1	Chlorodibromomethane	5.3	U	5.3
127-18-4	Tetrachloroethene	8.7		5.3
135-98-8	sec-Butylbenzene	5.3	U	5.3
142-28-9	1,3-Dichloropropane	5.3	U	5.3
156-59-2	cis-1,2-Dichloroethene	2.7	U	2.7
156-60-5	trans-1,2-Dichloroethene	2.7	U	2.7
1634-04-4	Methyl tert-butyl ether	21	U	21
179601-23-1	m-Xylene & p-Xylene	2.7	U	2.7
541-73-1	1,3-Dichlorobenzene	5.3	U	5.3
56-23-5	Carbon tetrachloride	5.3	U	5.3
563-58-6	1,1-Dichloropropene	5.3	U	5.3

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-6-04302024 | Lab Sample ID: 280-190830-6

Matrix: Solid | Lab File ID: MS13_010474.D

Analysis Method: 8260D | Date Collected: 04/30/2024 12:45

Sample wt/vol: 5.415(g) | Date Analyzed: 05/08/2024 17:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 12.9 % Solids: 87.1 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
591-78-6	2-Hexanone	21	U	21
594-20-7	2,2-Dichloropropane	5.3	U	5.3
60-29-7	Ethyl ether	11	U	11
630-20-6	1,1,1,2-Tetrachloroethane	5.3	U	5.3
67-64-1	Acetone	85	U	85
67-66-3	Chloroform	11	U	11
71-43-2	Benzene	5.3	U	5.3
71-55-6	1,1,1-Trichloroethane	5.3	U	5.3
74-83-9	Bromomethane	11	U	11
74-87-3	Chloromethane	11	U	11
74-88-4	Iodomethane	5.3	U	5.3
74-95-3	Dibromomethane	5.3	U	5.3
74-97-5	Chlorobromomethane	5.3	U	5.3
75-00-3	Chloroethane	11	U	11
75-01-4	Vinyl chloride	5.3	U	5.3
75-09-2	Methylene Chloride	5.3	U	5.3
75-15-0	Carbon disulfide	5.3	U	5.3
75-25-2	Bromoform	5.3	U	5.3
75-27-4	Dichlorobromomethane	5.3	U	5.3
75-34-3	1,1-Dichloroethane	5.3	U	5.3
75-35-4	1,1-Dichloroethene	5.3	U	5.3
75-69-4	Trichlorofluoromethane	11	U	11
75-71-8	Dichlorodifluoromethane	11	U	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21	U	21
78-87-5	1,2-Dichloropropane	5.3	U	5.3
78-93-3	2-Butanone (MEK)	21	U	21
79-00-5	1,1,2-Trichloroethane	5.3	U	5.3
79-01-6	Trichloroethene	5.3	U	5.3
79-20-9	Methyl acetate	11	U	11
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U	5.3
87-61-6	1,2,3-Trichlorobenzene	5.3	U	5.3
87-68-3	Hexachlorobutadiene	5.3	U	5.3
91-20-3	Naphthalene	7.0	U	7.0

MAT 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190830-1

SDG No.:

Client Sample ID: Post-SO-Shallow SVE-6-04302024 | Lab Sample ID: 280-190830-6

Matrix: Solid | Lab File ID: MS13_010474.D

Analysis Method: 8260D | Date Collected: 04/30/2024 12:45

Sample wt/vol: 5.415(g) | Date Analyzed: 05/08/2024 17:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 12.9 % Solids: 87.1 | Level: (low/med) Low

Analysis Batch No.: 652565 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	2.7	U	2.7	
95-49-8	2-Chlorotoluene	5.3	U	5.3	
95-50-1	1,2-Dichlorobenzene	5.3	U	5.3	
95-63-6	1,2,4-Trimethylbenzene	5.3	U	5.3	
96-12-8	1,2-Dibromo-3-Chloropropane	11	U	11	
96-18-4	1,2,3-Trichloropropane	5.3	U	5.3	
97-63-2	Ethyl methacrylate	5.3	U	5.3	
98-06-6	tert-Butylbenzene	5.3	U	5.3	
98-82-8	Isopropylbenzene	5.3	U	5.3	
99-87-6	4-Isopropyltoluene	5.3	U	5.3	
1330-20-7	Xylenes, Total	5.3	U	5.3	
540-59-0	1,2-Dichloroethene, Total	5.3	U	5.3	
542-75-6	1,3-Dichloropropene, Total	5.3	U	5.3	
STL00209	Trihalomethanes, Total	11	U	11	
STL00431	Total BTEX	5.3	U	5.3	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		58-140
1868-53-7	Dibromofluoromethane (Surr)	92		75-121
2037-26-5	Toluene-d8 (Surr)	111		80-126
460-00-4	4-Bromofluorobenzene (Surr)	106		76-127

not within

ENVIRONMENTAL
Data Services, Inc.

DATA VALIDATION SUMMARY REPORT
ABC CLEANERS, NORTH CAROLINA

Client: EA Engineering, Science & Technology, Inc., Hunt Valley, Maryland
SDG: 280-188659-1
Laboratory: Eurofins, Denver, Colorado
Site: ABC Cleaners, North Carolina
Date: June 18, 2024

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MPE-01	280-188659-1	Water
2	MPE-02	280-188659-2	Water
3*	MPE-03	280-188659-3	Water
4	MPE-04	280-188659-4	Water
5	Trip Blank	280-188659-5	Water

*Stage 4 review

A Stage 2B/4 data validation was performed on the analytical data for four water samples and one aqueous trip blank sample collected on March 11, 2024 by EA Engineering at the ABC Cleaners site in North Carolina. The samples were analyzed under the Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions.

Specific method references are as follows:

Analysis	*Method References*
VOCs	SW846 Method 8260D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, the Sampling and Analysis Plan and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," November 2020;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Holding times and sample preservation
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries

- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no serious deficiencies of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Volatile Organic Compounds (VOC)

Holding Times

- All samples were analyzed within 7 days for unpreserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- All percent relative standard deviation (%RSD) and/or correlation coefficients and mean relative response factor (RRF) criteria were met.

Continuing Calibration

- All %D and RRF criteria were met except for the following.

CCAL Date	Compound	%D	Qualifier	Affected Samples
3/15/24 (0630)	Chlorobromomethane	20.5%	UJ	1-5

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Trip Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)

- The LCS/LCSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- Sample 1 was analyzed at a 50X dilution due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 6/21/24

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Reason Code	Definition
HT	Holding Time
MB	Method Blank
SURR	Surrogate
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
CB/CCB	Calibration Blank or Continuing Calibration Blank
CCV	Calibration Verification
SD	ICP Serial Dilution
TB	Trip Blank
EB	Equipment Blank
FB	Field Blank
FD	Field Duplicate
CQ	Compound Quantitation
IS	Internal Standard

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-188659-1

SDG No.:

Client Sample ID: MPE-01 Lab Sample ID: 280-188659-1

Matrix: Water Lab File ID: X514445.D

Analysis Method: 8260D Date Collected: 03/11/2024 09:49

Sample wt/vol: 5(mL) Date Analyzed: 03/15/2024 14:19

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 646012 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	50	U	50
100-42-5	Styrene	50	U	50
10061-01-5	cis-1,3-Dichloropropene	100	U	100
10061-02-6	trans-1,3-Dichloropropene	100	U	100
103-65-1	N-Propylbenzene	50	U	50
104-51-8	n-Butylbenzene	50	U	50
106-43-4	4-Chlorotoluene	50	U	50
106-46-7	1,4-Dichlorobenzene	50	U	50
106-93-4	Ethylene Dibromide	50	U	50
107-05-1	3-Chloro-1-propene	100	U	100
107-06-2	1,2-Dichloroethane	50	U	50
107-13-1	Acrylonitrile	1000	U	1000
108-05-4	Vinyl acetate	150	U	150
108-10-1	4-Methyl-2-pentanone (MIBK)	250	U	250
108-67-8	1,3,5-Trimethylbenzene	50	U	50
108-86-1	Bromobenzene	50	U	50
108-87-2	Methylcyclohexane	50	U	50
108-88-3	Toluene	50	U	50
108-90-7	Chlorobenzene	50	U	50
109-99-9	Tetrahydrofuran	350	U	350
110-54-3	Hexane	100	U	100
110-82-7	Cyclohexane	50	U	50
120-82-1	1,2,4-Trichlorobenzene	50	U	50
124-48-1	Chlorodibromomethane	100	U	100
127-18-4	Tetrachloroethene	4300		50
135-98-8	sec-Butylbenzene	50	U	50
142-28-9	1,3-Dichloropropane	50	U	50
156-59-2	cis-1,2-Dichloroethene	50	U	50
156-60-5	trans-1,2-Dichloroethene	50	U	50
1634-04-4	Methyl tert-butyl ether	250	U	250
179601-23-1	m-Xylene & p-Xylene	100	U	100
541-73-1	1,3-Dichlorobenzene	50	U	50
56-23-5	Carbon tetrachloride	50	U	50
563-58-6	1,1-Dichloropropene	50	U	50

MF 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-188659-1

SDG No.:

Client Sample ID: MPE-01 | Lab Sample ID: 280-188659-1

Matrix: Water | Lab File ID: X514445.D

Analysis Method: 8260D | Date Collected: 03/11/2024 09:49

Sample wt/vol: 5(mL) | Date Analyzed: 03/15/2024 14:19

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 646012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
591-78-6	2-Hexanone	250	U	250
594-20-7	2,2-Dichloropropane	50	U	50
60-29-7	Ethyl ether	100	U	100
630-20-6	1,1,1,2-Tetrachloroethane	50	U	50
67-64-1	Acetone	750	U	750
67-66-3	Chloroform	50	U	50
71-43-2	Benzene	50	U	50
71-55-6	1,1,1-Trichloroethane	50	U	50
74-83-9	Bromomethane	250	U	250
74-87-3	Chloromethane	100	U	100
74-88-4	Iodomethane	250	U	250
74-95-3	Dibromomethane	50	U	50
74-97-5	Chlorobromomethane	50	U	50
75-00-3	Chloroethane	200	U	200
75-01-4	Vinyl chloride	100	U	100
75-09-2	Methylene Chloride	100	U	100
75-15-0	Carbon disulfide	100	U	100
75-25-2	Bromoform	100	U	100
75-27-4	Dichlorobromomethane	50	U	50
75-34-3	1,1-Dichloroethane	50	U	50
75-35-4	1,1-Dichloroethene	50	U	50
75-69-4	Trichlorofluoromethane	100	U	100
75-71-8	Dichlorodifluoromethane	150	U	150
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	150	U	150
78-87-5	1,2-Dichloropropane	50	U	50
78-93-3	2-Butanone (MEK)	750	U	750
79-00-5	1,1,2-Trichloroethane	50	U	50
79-01-6	Trichloroethene	50	U	50
79-20-9	Methyl acetate	250	U	250
79-34-5	1,1,2,2-Tetrachloroethane	50	U	50
87-61-6	1,2,3-Trichlorobenzene	100	U	100
87-68-3	Hexachlorobutadiene	100	U	100
91-20-3	Naphthalene	100	U	100

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-188659-1

SDG No.:

Client Sample ID: MPE-01 | Lab Sample ID: 280-188659-1

Matrix: Water | Lab File ID: X514445.D

Analysis Method: 8260D | Date Collected: 03/11/2024 09:49

Sample wt/vol: 5(mL) | Date Analyzed: 03/15/2024 14:19

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 646012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	50	U	50
95-49-8	2-Chlorotoluene	50	U	50
95-50-1	1,2-Dichlorobenzene	50	U	50
95-63-6	1,2,4-Trimethylbenzene	50	U	50
96-12-8	1,2-Dibromo-3-Chloropropane	250	U	250
96-18-4	1,2,3-Trichloropropane	130	U	130
97-63-2	Ethyl methacrylate	150	U	150
98-06-6	tert-Butylbenzene	50	U	50
98-82-8	Isopropylbenzene	50	U	50
99-87-6	4-Isopropyltoluene	50	U	50
1330-20-7	Xylenes, Total	50	U	50
540-59-0	1,2-Dichloroethene, Total	50	U	50
542-75-6	1,3-Dichloropropene, Total	100	U	100
STL00209	Trihalomethanes, Total	50	U	50
STL00431	Total BTEX	50	U	50

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		70-127
1868-53-7	Dibromofluoromethane (Surr)	94		77-120
2037-26-5	Toluene-d8 (Surr)	93		80-125
460-00-4	4-Bromofluorobenzene (Surr)	90		78-120

MT 4/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-188659-1

SDG No.:

Client Sample ID: MPE-02 | Lab Sample ID: 280-188659-2

Matrix: Water | Lab File ID: X514446.D

Analysis Method: 8260D | Date Collected: 03/11/2024 10:02

Sample wt/vol: 5(mL) | Date Analyzed: 03/15/2024 14:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 646012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	20
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0	U	2.0
110-82-7	Cyclohexane	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	140		1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	6.8		1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

MM 6/19/24

2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-188659-1

SDG No.:

Client Sample ID: MPE-02 Lab Sample ID: 280-188659-2

Matrix: Water Lab File ID: X514446.D

Analysis Method: 8260D Date Collected: 03/11/2024 10:02

Sample wt/vol: 5(mL) Date Analyzed: 03/15/2024 14:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 646012 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
591-78-6	2-Hexanone	5.0	U	5.0
594-20-7	2,2-Dichloropropane	1.0	U	1.0
60-29-7	Ethyl ether	2.0	U	2.0
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0
67-64-1	Acetone	79		25
67-66-3	Chloroform	1.0	U	1.0
71-43-2	Benzene	1.0	U	1.0
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
74-83-9	Bromomethane	5.0	U	5.0
74-87-3	Chloromethane	2.0	U	2.0
74-88-4	Iodomethane	5.0	U	5.0
74-95-3	Dibromomethane	1.0	U	1.0
74-97-5	Chlorobromomethane	1.0	U	1.0
75-00-3	Chloroethane	4.0	U	4.0
75-01-4	Vinyl chloride	2.0	U	2.0
75-09-2	Methylene Chloride	2.0	U	2.0
75-15-0	Carbon disulfide	2.0	U	2.0
75-25-2	Bromoform	2.0	U	2.0
75-27-4	Dichlorobromomethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
75-69-4	Trichlorofluoromethane	2.0	U	2.0
75-71-8	Dichlorodifluoromethane	3.0	U	3.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
78-93-3	2-Butanone (MEK)	15	U	15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
79-01-6	Trichloroethene	1.2		1.0
79-20-9	Methyl acetate	5.0	U	5.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0
87-68-3	Hexachlorobutadiene	2.0	U	2.0
91-20-3	Naphthalene	2.0	U	2.0

CCV

MM 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-188659-1

SDG No.:

Client Sample ID: MPE-02 | Lab Sample ID: 280-188659-2

Matrix: Water | Lab File ID: X514446.D

Analysis Method: 8260D | Date Collected: 03/11/2024 10:02

Sample wt/vol: 5(mL) | Date Analyzed: 03/15/2024 14:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 646012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	1.0	U	1.0	
95-49-8	2-Chlorotoluene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5	
97-63-2	Ethyl methacrylate	3.0	U	3.0	
98-06-6	tert-Butylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene	1.0	U	1.0	
99-87-6	4-Isopropyltoluene	1.0	U	1.0	
1330-20-7	Xylenes, Total	1.0	U	1.0	
540-59-0	1,2-Dichloroethene, Total	6.3		1.0	
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0	
STL00209	Trihalomethanes, Total	1.0	U	1.0	
STL00431	Total BTEX	1.0	U	1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-127
1868-53-7	Dibromofluoromethane (Surr)	94		77-120
2037-26-5	Toluene-d8 (Surr)	93		80-125
460-00-4	4-Bromofluorobenzene (Surr)	89		78-120

MA 4/15/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-188659-1

SDG No.:

Client Sample ID: MPE-03 | Lab Sample ID: 280-188659-3

Matrix: Water | Lab File ID: X514447.D

Analysis Method: 8260D | Date Collected: 03/11/2024 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 03/15/2024 15:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 646012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.9		1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	20
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0	U	2.0
110-82-7	Cyclohexane	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	100		1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	2.2		1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-188659-1

SDG No.:

Client Sample ID: MPE-03 | Lab Sample ID: 280-188659-3

Matrix: Water | Lab File ID: X514447.D

Analysis Method: 8260D | Date Collected: 03/11/2024 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 03/15/2024 15:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 646012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
591-78-6	2-Hexanone	5.0	U	5.0
594-20-7	2,2-Dichloropropane	1.0	U	1.0
60-29-7	Ethyl ether	2.0	U	2.0
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0
67-64-1	Acetone	130		15
67-66-3	Chloroform	1.0	U	1.0
71-43-2	Benzene	1.0	U	1.0
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
74-83-9	Bromomethane	5.0	U	5.0
74-87-3	Chloromethane	2.0	U	2.0
74-88-4	Iodomethane	5.0	U	5.0
74-95-3	Dibromomethane	1.0	U	1.0
74-97-5	Chlorobromomethane	1.0	U	1.0
75-00-3	Chloroethane	4.0	U	4.0
75-01-4	Vinyl chloride	2.0	U	2.0
75-09-2	Methylene Chloride	2.0	U	2.0
75-15-0	Carbon disulfide	2.0	U	2.0
75-25-2	Bromoform	2.0	U	2.0
75-27-4	Dichlorobromomethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
75-69-4	Trichlorofluoromethane	2.0	U	2.0
75-71-8	Dichlorodifluoromethane	3.0	U	3.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
78-93-3	2-Butanone (MEK)	15	U	15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
79-01-6	Trichloroethene	1.6		1.0
79-20-9	Methyl acetate	5.0	U	5.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0
87-68-3	Hexachlorobutadiene	2.0	U	2.0
91-20-3	Naphthalene	2.0	U	2.0

MM 4/15/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-188659-1

SDG No.:

Client Sample ID: MPE-03 | Lab Sample ID: 280-188659-3

Matrix: Water | Lab File ID: X514447.D

Analysis Method: 8260D | Date Collected: 03/11/2024 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 03/15/2024 15:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 646012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	1.0	U	1.0	
95-49-8	2-Chlorotoluene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	23		1.0	
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5	
97-63-2	Ethyl methacrylate	3.0	U	3.0	
98-06-6	tert-Butylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene	1.0	U	1.0	
99-87-6	4-Isopropyltoluene	1.0	U	1.0	
1330-20-7	Xylenes, Total	1.0	U	1.0	
540-59-0	1,2-Dichloroethene, Total	2.2		1.0	
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0	
STL00209	Trihalomethanes, Total	1.0	U	1.0	
STL00431	Total BTEX	1.0	U	1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		70-127
1868-53-7	Dibromofluoromethane (Surr)	96		77-120
2037-26-5	Toluene-d8 (Surr)	93		80-125
460-00-4	4-Bromofluorobenzene (Surr)	90		78-120

MM 4/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-188659-1

SDG No.:

Client Sample ID: MPE-04 | Lab Sample ID: 280-188659-4

Matrix: Water | Lab File ID: X514448.D

Analysis Method: 8260D | Date Collected: 03/11/2024 10:18

Sample wt/vol: 5(mL) | Date Analyzed: 03/15/2024 15:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 646012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	20
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0	U	2.0
110-82-7	Cyclohexane	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	49		1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

not within

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-188659-1

SDG No.:

Client Sample ID: MPE-04 | Lab Sample ID: 280-188659-4

Matrix: Water | Lab File ID: X514448.D

Analysis Method: 8260D | Date Collected: 03/11/2024 10:18

Sample wt/vol: 5(mL) | Date Analyzed: 03/15/2024 15:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624Sil MS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 646012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	5.0	U	5.0	
594-20-7	2,2-Dichloropropane	1.0	U	1.0	
60-29-7	Ethyl ether	2.0	U	2.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	
67-64-1	Acetone	190		15	
67-66-3	Chloroform	1.0	U	1.0	
71-43-2	Benzene	1.0	U	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
74-83-9	Bromomethane	5.0	U	5.0	
74-87-3	Chloromethane	2.0	U	2.0	
74-88-4	Iodomethane	5.0	U	5.0	
74-95-3	Dibromomethane	1.0	U	1.0	
74-97-5	Chlorobromomethane	1.0	U	1.0	CCV
75-00-3	Chloroethane	4.0	U	4.0	
75-01-4	Vinyl chloride	2.0	U	2.0	
75-09-2	Methylene Chloride	2.0	U	2.0	
75-15-0	Carbon disulfide	2.0	U	2.0	
75-25-2	Bromoform	2.0	U	2.0	
75-27-4	Dichlorobromomethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
75-69-4	Trichlorofluoromethane	2.0	U	2.0	
75-71-8	Dichlorodifluoromethane	3.0	U	3.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	15		15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
79-01-6	Trichloroethene	1.0	U	1.0	
79-20-9	Methyl acetate	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0	
87-68-3	Hexachlorobutadiene	2.0	U	2.0	
91-20-3	Naphthalene	2.0	U	2.0	

MT 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-188659-1

SDG No.:

Client Sample ID: MPE-04 Lab Sample ID: 280-188659-4

Matrix: Water Lab File ID: X514448.D

Analysis Method: 8260D Date Collected: 03/11/2024 10:18

Sample wt/vol: 5(mL) Date Analyzed: 03/15/2024 15:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RXI-624Sil MS ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 646012 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	1.0	U	1.0
95-49-8	2-Chlorotoluene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	5.0		1.0
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5
97-63-2	Ethyl methacrylate	3.0	U	3.0
98-06-6	tert-Butylbenzene	1.0	U	1.0
98-82-8	Isopropylbenzene	1.0	U	1.0
99-87-6	4-Isopropyltoluene	1.0	U	1.0
1330-20-7	Xylenes, Total	1.0	U	1.0
540-59-0	1,2-Dichloroethene, Total	1.0	U	1.0
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0
STL00209	Trihalomethanes, Total	1.0	U	1.0
STL00431	Total BTEX	1.0	U	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		70-127
1868-53-7	Dibromofluoromethane (Surr)	94		77-120
2037-26-5	Toluene-d8 (Surr)	92		80-125
460-00-4	4-Bromofluorobenzene (Surr)	89		78-120

MT 6/18/24

5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-188659-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 280-188659-5

Matrix: Water | Lab File ID: X514432.D

Analysis Method: 8260D | Date Collected: 03/11/2024 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/15/2024 09:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 646012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	20
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0	U	2.0
110-82-7	Cyclohexane	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	1.0	U	1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

WAT 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-188659-1

SDG No.:

Client Sample ID: Trip Blank Lab Sample ID: 280-188659-5

Matrix: Water Lab File ID: X514432.D

Analysis Method: 8260D Date Collected: 03/11/2024 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/15/2024 09:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RXI-624Sil MS ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 646012 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
591-78-6	2-Hexanone	5.0	U	5.0
594-20-7	2,2-Dichloropropane	1.0	U	1.0
60-29-7	Ethyl ether	2.0	U	2.0
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0
67-64-1	Acetone	15	U	15
67-66-3	Chloroform	1.0	U	1.0
71-43-2	Benzene	1.0	U	1.0
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
74-83-9	Bromomethane	5.0	U	5.0
74-87-3	Chloromethane	2.0	U	2.0
74-88-4	Iodomethane	5.0	U	5.0
74-95-3	Dibromomethane	1.0	U	1.0
74-97-5	Chlorobromomethane	1.0	U	1.0
75-00-3	Chloroethane	4.0	U	4.0
75-01-4	Vinyl chloride	2.0	U	2.0
75-09-2	Methylene Chloride	2.0	U	2.0
75-15-0	Carbon disulfide	2.0	U	2.0
75-25-2	Bromoform	2.0	U	2.0
75-27-4	Dichlorobromomethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
75-69-4	Trichlorofluoromethane	2.0	U	2.0
75-71-8	Dichlorodifluoromethane	5.0	U	5.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
78-93-3	2-Butanone (MEK)	15	U	15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
79-01-6	Trichloroethene	1.0	U	1.0
79-20-9	Methyl acetate	5.0	U	5.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0
87-68-3	Hexachlorobutadiene	2.0	U	2.0
91-20-3	Naphthalene	2.0	U	2.0

CW

FORM I 8260D

MF 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-188659-1
SDG No.:
Client Sample ID: Trip Blank | Lab Sample ID: 280-188659-5
Matrix: Water | Lab File ID: X514432.D
Analysis Method: 8260D | Date Collected: 03/11/2024 00:00
Sample wt/vol: 5(mL) | Date Analyzed: 03/15/2024 09:38
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 646012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	1.0	U	1.0
95-49-8	2-Chlorotoluene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5
97-63-2	Ethyl methacrylate	3.0	U	3.0
98-06-6	tert-Butylbenzene	1.0	U	1.0
98-82-8	Isopropylbenzene	1.0	U	1.0
99-87-6	4-Isopropyltoluene	1.0	U	1.0
1330-20-7	Xylenes, Total	1.0	U	1.0
540-59-0	1,2-Dichloroethene, Total	1.0	U	1.0
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0
STL00209	Trihalomethanes, Total	1.0	U	1.0
STL00431	Total BTEX	1.0	U	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		70-127
1868-53-7	Dibromofluoromethane (Surr)	96		77-120
2037-26-5	Toluene-d8 (Surr)	96		80-125
460-00-4	4-Bromofluorobenzene (Surr)	91		78-120

ENVIRONMENTAL
Data Services, Inc.

DATA VALIDATION SUMMARY REPORT
ABC CLEANERS, NORTH CAROLINA

Client: EA Engineering, Science & Technology, Inc., Hunt Valley, Maryland
SDG: 280-189130-1
Laboratory: Eurofins, Denver, Colorado
Site: ABC Cleaners, North Carolina
Date: June 18, 2024

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MPE-01	280-189130-1	Water
2	MPE-02	280-189130-2	Water
3	MPE-03	280-189130-3	Water
4*	MPE-04	280-189130-4	Water
5	MPE-05	280-189130-5	Water
6	MPE-06	280-189130-6	Water
7	MPE-07	280-189130-7	Water
8	MPE-08	280-189130-8	Water
9	MPE-09	280-189130-9	Water
10	Trip Blank (10)	280-189130-10	Water
11	MPE-11	280-189130-11	Water
12	MPE-12	280-189130-12	Water
13*	MPE-13	280-189130-13	Water
14	MPE-15	280-189130-14	Water
15	MPE-16	280-189130-15	Water
16	Trip Blank (16)	280-189130-16	Water
17	MPE-01 DUP	280-189130-17	Water

*Stage 4 review

A Stage 2B/4 data validation was performed on the analytical data for fifteen water samples and two aqueous trip blank samples collected on March 21, 2024 by EA Engineering at the ABC Cleaners site in North Carolina. The samples were analyzed under the Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions.

Specific method references are as follows:

Analysis	*Method References*
VOCs	SW846 Method 8260D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, the Sampling and Analysis Plan and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," November 2020;

- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Holding times and sample preservation
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no serious deficiencies of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Volatile Organic Compounds (VOC)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- All percent relative standard deviation (%RSD) and/or correlation coefficients and mean relative response factor (RRF) criteria were met.

Continuing Calibration

- All %D and RRF criteria were met except for the following.

CCAL Date	Compound	%D	Qualifier	Affected Samples
3/26/24 (0819)	Dichlorodifluoromethane	27.8%	UJ	All Samples
	Chlorobromomethane	22.0%		

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Trip Blank (10)	None - ND	-	-	-
Trip Blank (16)	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)

- The LCS/LCSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	MPE-01 ug/L	MPE-01 DUP ug/L	RPD	Qualifier
Tetrachloroethene	6200	5400	14%	None
Trichloroethene	190	170	11%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 6/21/24

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Reason Code	Definition
HT	Holding Time
MB	Method Blank
SURR	Surrogate
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
CB/CCB	Calibration Blank or Continuing Calibration Blank
CCV	Calibration Verification
SD	ICP Serial Dilution
TB	Trip Blank
EB	Equipment Blank
FB	Field Blank
FD	Field Duplicate
CQ	Compound Quantitation
IS	Internal Standard

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-01 Lab Sample ID: 280-189130-1

Matrix: Water Lab File ID: X514927.D

Analysis Method: 8260D Date Collected: 03/21/2024 12:44

Sample wt/vol: 5(mL) Date Analyzed: 03/26/2024 15:49

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 647102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	50	U	50
100-42-5	Styrene	50	U	50
10061-01-5	cis-1,3-Dichloropropene	100	U	100
10061-02-6	trans-1,3-Dichloropropene	100	U	100
103-65-1	N-Propylbenzene	50	U	50
104-51-8	n-Butylbenzene	50	U	50
106-43-4	4-Chlorotoluene	50	U	50
106-46-7	1,4-Dichlorobenzene	50	U	50
106-93-4	Ethylene Dibromide	50	U	50
107-05-1	3-Chloro-1-propene	100	U	100
107-06-2	1,2-Dichloroethane	50	U	50
107-13-1	Acrylonitrile	1000	U	1000
108-05-4	Vinyl acetate	150	U	150
108-10-1	4-Methyl-2-pentanone (MIBK)	250	U	250
108-67-8	1,3,5-Trimethylbenzene	50	U	50
108-86-1	Bromobenzene	50	U	50
108-87-2	Methylcyclohexane	50	U	50
108-88-3	Toluene	50	U	50
108-90-7	Chlorobenzene	50	U	50
109-99-9	Tetrahydrofuran	350	U	350
110-54-3	Hexane	100	U	100
110-82-7	Cyclohexane	50	U	50
120-82-1	1,2,4-Trichlorobenzene	50	U	50
124-48-1	Chlorodibromomethane	100	U	100
127-18-4	Tetrachloroethene	6200		50
135-98-8	sec-Butylbenzene	50	U	50
142-28-9	1,3-Dichloropropane	50	U	50
156-59-2	cis-1,2-Dichloroethene	50	U	50
156-60-5	trans-1,2-Dichloroethene	50	U	50
1634-04-4	Methyl tert-butyl ether	250	U	250
179601-23-1	m-Xylene & p-Xylene	100	U	100
541-73-1	1,3-Dichlorobenzene	50	U	50
56-23-5	Carbon tetrachloride	50	U	50
563-58-6	1,1-Dichloropropene	50	U	50

MM 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-01 | Lab Sample ID: 280-189130-1
Matrix: Water | Lab File ID: X514927.D
Analysis Method: 8260D | Date Collected: 03/21/2024 12:44
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 15:49
Soil Aliquot Vol: | Dilution Factor: 50
Soil Extract Vol.: | GC Column: RXI-624Sil MS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	250	U	250	
594-20-7	2,2-Dichloropropane	50	U	50	
60-29-7	Ethyl ether	100	U	100	
630-20-6	1,1,1,2-Tetrachloroethane	50	U	50	
67-64-1	Acetone	750	U	750	
67-66-3	Chloroform	50	U	50	
71-43-2	Benzene	50	U	50	
71-55-6	1,1,1-Trichloroethane	50	U	50	
74-83-9	Bromomethane	250	U	250	
74-87-3	Chloromethane	100	U	100	
74-88-4	Iodomethane	250	U	250	
74-95-3	Dibromomethane	50	U	50	
74-97-5	Chlorobromomethane	50	X US	50	CCV
75-00-3	Chloroethane	200	U	200	
75-01-4	Vinyl chloride	100	U	100	
75-09-2	Methylene Chloride	100	U	100	
75-15-0	Carbon disulfide	100	U	100	
75-25-2	Bromoform	100	U	100	
75-27-4	Dichlorobromomethane	50	U	50	
75-34-3	1,1-Dichloroethane	50	U	50	
75-35-4	1,1-Dichloroethene	50	U	50	
75-69-4	Trichlorofluoromethane	100	U	100	
75-71-8	Dichlorodifluoromethane	150	X US	150	CCV
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	150	U	150	
78-87-5	1,2-Dichloropropane	50	U	50	
78-93-3	2-Butanone (MEK)	750	U	750	
79-00-5	1,1,2-Trichloroethane	50	U	50	
79-01-6	Trichloroethene	190		50	
79-20-9	Methyl acetate	250	U	250	
79-34-5	1,1,2,2-Tetrachloroethane	50	U	50	
87-61-6	1,2,3-Trichlorobenzene	100	U	100	
87-68-3	Hexachlorobutadiene	100	U	100	
91-20-3	Naphthalene	100	U	100	

MR 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-01 | Lab Sample ID: 280-189130-1

Matrix: Water | Lab File ID: X514927.D

Analysis Method: 8260D | Date Collected: 03/21/2024 12:44

Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 15:49

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	50	U	50	
95-49-8	2-Chlorotoluene	50	U	50	
95-50-1	1,2-Dichlorobenzene	50	U	50	
95-63-6	1,2,4-Trimethylbenzene	50	U	50	
96-12-8	1,2-Dibromo-3-Chloropropane	250	U	250	
96-18-4	1,2,3-Trichloropropane	130	U	130	
97-63-2	Ethyl methacrylate	150	U	150	
98-06-6	tert-Butylbenzene	50	U	50	
98-82-8	Isopropylbenzene	50	U	50	
99-87-6	4-Isopropyltoluene	50	U	50	
1330-20-7	Xylenes, Total	50	U	50	
540-59-0	1,2-Dichloroethene, Total	50	U	50	
542-75-6	1,3-Dichloropropene, Total	100	U	100	
9TL00209	Trihalomethanes, Total	50	U	50	
9TL00431	Total BTEX	50	U	50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		70-127
1868-53-7	Dibromofluoromethane (Surr)	92		77-120
2037-26-5	Toluene-d8 (Surr)	96		80-125
460-00-4	4-Bromofluorobenzene (Surr)	92		79-120

MM 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-02 Lab Sample ID: 280-189130-2

Matrix: Water Lab File ID: X514917.D

Analysis Method: 8260D Date Collected: 03/21/2024 12:54

Sample wt/vol: 5(mL) Date Analyzed: 03/26/2024 12:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 647102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	20
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0	U	2.0
110-82-7	Cyclohexane	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	97		1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	2.2		1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

MF 4/15/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-02 Lab Sample ID: 280-189130-2

Matrix: Water Lab File ID: X514917.D

Analysis Method: 8260D Date Collected: 03/21/2024 12:54

Sample wt/vol: 5(mL) Date Analyzed: 03/26/2024 12:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 647102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	5.0	U	5.0	
594-20-7	2,2-Dichloropropane	1.0	U	1.0	
60-29-7	Ethyl ether	2.0	U	2.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	
67-64-1	Acetone	26		15	
67-66-3	Chloroform	1.0	U	1.0	
71-43-2	Benzene	1.0	U	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
74-83-9	Bromomethane	5.0	U	5.0	
74-87-3	Chloromethane	2.0	U	2.0	
74-88-4	Iodomethane	5.0	U	5.0	
74-95-3	Dibromomethane	1.0	U	1.0	
74-97-5	Chlorobromomethane	1.0	U JS	1.0	ccv
75-00-3	Chloroethane	4.0	U	4.0	
75-01-4	Vinyl chloride	2.0	U	2.0	
75-09-2	Methylene Chloride	2.0	U	2.0	
75-15-0	Carbon disulfide	2.0	U	2.0	
75-25-2	Bromoform	2.0	U	2.0	
75-27-4	Dichlorobromomethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
75-69-4	Trichlorofluoromethane	2.0	U	2.0	
75-71-8	Dichlorodifluoromethane	3.0	U JS	3.0	ccv
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	15	U	15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
79-01-6	Trichloroethene	1.4		1.0	
79-20-9	Methyl acetate	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0	
87-68-3	Hexachlorobutadiene	2.0	U	2.0	
91-20-3	Naphthalene	2.0	U	2.0	

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-02 | Lab Sample ID: 280-189130-2
Matrix: Water | Lab File ID: X514917.D
Analysis Method: 8260D | Date Collected: 03/21/2024 12:54
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 12:12
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	1.0	U	1.0	
95-49-8	2-Chlorotoluene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5	
97-63-2	Ethyl methacrylate	3.0	U	3.0	
98-06-6	tert-Butylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene	1.0	U	1.0	
99-87-6	4-Isopropyltoluene	1.0	U	1.0	
1330-20-7	Xylenes, Total	1.0	U	1.0	
540-59-0	1,2-Dichloroethene, Total	2.2		1.0	
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0	
STL00209	Trihalomethanes, Total	1.0	U	1.0	
STL00431	Total BTEX	1.0	U	1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		70-127
1868-53-7	Dibromofluoromethane (Surr)	94		77-120
2037-26-5	Toluene-d8 (Surr)	96		80-125
460-00-4	4-Bromofluorobenzene (Surr)	91		78-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-03 Lab Sample ID: 280-189130-3

Matrix: Water Lab File ID: X514930.D

Analysis Method: 8260D Date Collected: 03/21/2024 13:35

Sample wt/vol: 5(mL) Date Analyzed: 03/26/2024 16:56

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 647102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	4.0	U	4.0
100-42-5	Styrene	4.0	U	4.0
10061-01-5	cis-1,3-Dichloropropene	8.0	U	8.0
10061-02-6	trans-1,3-Dichloropropene	8.0	U	8.0
103-65-1	n-Propylbenzene	4.0	U	4.0
104-51-8	n-Butylbenzene	4.0	U	4.0
106-43-4	4-Chlorotoluene	4.0	U	4.0
106-46-7	1,4-Dichlorobenzene	4.0	U	4.0
106-93-4	Ethylene Dibromide	4.0	U	4.0
107-05-1	3-Chloro-1-propene	8.0	U	8.0
107-06-2	1,2-Dichloroethane	4.0	U	4.0
107-13-1	Acrylonitrile	80	U	80
108-05-4	Vinyl acetate	12	U	12
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U	20
108-67-8	1,3,5-Trimethylbenzene	4.0	U	4.0
108-86-1	Bromobenzene	4.0	U	4.0
108-87-2	Methylcyclohexane	4.0	U	4.0
108-88-3	Toluene	4.0	U	4.0
108-90-7	Chlorobenzene	4.0	U	4.0
109-99-9	Tetrahydrofuran	28	U	28
110-54-3	Hexane	8.0	U	8.0
110-82-7	Cyclohexane	4.0	U	4.0
120-82-1	1,2,4-Trichlorobenzene	4.0	U	4.0
124-48-1	Chlorodibromomethane	8.0	U	8.0
127-18-4	Tetrachloroethene	480		4.0
135-98-8	sec-Butylbenzene	4.0	U	4.0
142-28-9	1,3-Dichloropropane	4.0	U	4.0
156-59-2	cis-1,2-Dichloroethene	4.0	U	4.0
156-60-5	trans-1,2-Dichloroethene	4.0	U	4.0
1634-04-4	Methyl tert-butyl ether	20	U	20
179601-23-1	m-Xylene & p-Xylene	8.0	U	8.0
541-73-1	1,3-Dichlorobenzene	4.0	U	4.0
56-23-5	Carbon tetrachloride	4.0	U	4.0
563-58-6	1,1-Dichloropropene	4.0	U	4.0

FORM I 8260D

MS 6/15/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-03 | Lab Sample ID: 280-189130-3

Matrix: Water | Lab File ID: X514930.D

Analysis Method: 8260D | Date Collected: 03/21/2024 13:35

Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 16:56

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	20	U	20	
594-20-7	2,2-Dichloropropane	4.0	U	4.0	
60-29-7	Ethyl ether	8.0	U	8.0	
630-20-6	1,1,1,2-Tetrachloroethane	4.0	U	4.0	
67-64-1	Acetone	84		60	
67-66-3	Chloroform	4.0	U	4.0	
71-43-2	Benzene	4.0	U	4.0	
71-55-6	1,1,1-Trichloroethane	4.0	U	4.0	
74-83-9	Bromomethane	20	U	20	
74-87-3	Chloromethane	8.0	U	8.0	
74-88-4	Iodomethane	20	U	20	
74-95-3	Dibromomethane	4.0	U	4.0	
74-97-5	Chlorobromomethane	4.0	U	4.0	CW
75-00-3	Chloroethane	16	U	16	
75-01-4	Vinyl chloride	8.0	U	8.0	
75-09-2	Methylene Chloride	8.0	U	8.0	
75-15-0	Carbon disulfide	8.0	U	8.0	
75-25-2	Bromoform	8.0	U	8.0	
75-27-4	Dichlorobromomethane	4.0	U	4.0	
75-34-3	1,1-Dichloroethane	4.0	U	4.0	
75-35-4	1,1-Dichloroethene	4.0	U	4.0	
75-69-4	Trichlorofluoromethane	8.0	U	8.0	
75-71-8	Dichlorodifluoromethane	12	U	12	CW
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	12	
78-87-5	1,2-Dichloropropane	4.0	U	4.0	
78-93-3	2-Butanone (MEK)	60	U	60	
79-00-5	1,1,2-Trichloroethane	4.0	U	4.0	
79-01-6	Trichloroethene	7.0		4.0	
79-20-9	Methyl acetate	20	U	20	
79-34-5	1,1,2,2-Tetrachloroethane	4.0	U	4.0	
87-61-6	1,2,3-Trichlorobenzene	8.0	U	8.0	
87-68-3	Hexachlorobutadiene	8.0	U	8.0	
91-20-3	Naphthalene	8.0	U	8.0	

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-03 | Lab Sample ID: 280-189130-3

Matrix: Water | Lab File ID: X514930.D

Analysis Method: 8260D | Date Collected: 03/21/2024 13:35

Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 16:56

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	4.0	U	4.0
95-49-8	2-Chlorotoluene	4.0	U	4.0
95-50-1	1,2-Dichlorobenzene	4.0	U	4.0
95-63-6	1,2,4-Trimethylbenzene	4.0	U	4.0
96-12-8	1,2-Dibromo-3-Chloropropane	20	U	20
96-18-4	1,2,3-Trichloropropane	10	U	10
97-63-2	Ethyl methacrylate	12	U	12
98-06-6	tert-Butylbenzene	4.0	U	4.0
98-82-8	Isopropylbenzene	4.0	U	4.0
99-87-6	4-Isopropyltoluene	4.0	U	4.0
1330-20-7	Xylenes, Total	4.0	U	4.0
540-59-0	1,2-Dichloroethene, Total	4.0	U	4.0
542-75-6	1,3-Dichloropropene, Total	8.0	U	8.0
STL00209	Trihalomethanes, Total	4.0	U	4.0
STL00431	Total BTEX	4.0	U	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		73-127
1868-53-7	Dibromofluoromethane (Surr)	93		77-120
2037-26-5	Toluene-d8 (Surr)	95		80-125
460-00-4	4-Bromofluorobenzene (Surr)	90		78-120

FORM I 8260D

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-04 Lab Sample ID: 280-189130-4

Matrix: Water Lab File ID: X514918.D

Analysis Method: 8260D Date Collected: 03/21/2024 13:59

Sample wt/vol: 5(mL) Date Analyzed: 03/26/2024 12:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 647102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	20
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0	U	2.0
110-82-7	Cyclohexane	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	58		1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

MA 4/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-04 | Lab Sample ID: 280-189130-4

Matrix: Water | Lab File ID: X514918.D

Analysis Method: 8260D | Date Collected: 03/21/2024 13:59

Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 12:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	5.0	U	5.0	
594-20-7	2,2-Dichloropropane	1.0	U	1.0	
60-29-7	Ethyl ether	2.0	U	2.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	
67-64-1	Acetone	73		15	
67-66-3	Chloroform	1.0	U	1.0	
71-43-2	Benzene	1.0	U	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
74-83-9	Bromomethane	5.0	U	5.0	
74-87-3	Chloromethane	2.0	U	2.0	
74-88-4	Iodomethane	5.0	U	5.0	
74-95-3	Dibromomethane	1.0	U	1.0	
74-97-5	Chlorobromomethane	1.0	✗ U5	1.0	cw
75-00-3	Chloroethane	4.0	U	4.0	
75-01-4	Vinyl chloride	2.0	U	2.0	
75-09-2	Methylene Chloride	2.0	U	2.0	
75-15-0	Carbon disulfide	2.0	U	2.0	
75-25-2	Bromoform	2.0	U	2.0	
75-27-4	Dichlorobromomethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
75-69-4	Trichlorofluoromethane	2.0	U	2.0	
75-71-8	Dichlorodifluoromethane	3.0	✗ U5	3.0	cw
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	15	U	15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
79-01-6	Trichloroethene	1.0	U	1.0	
79-20-9	Methyl acetate	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0	
87-68-3	Hexachlorobutadiene	2.0	U	2.0	
91-20-3	Naphthalene	2.0	U	2.0	

MS 4/15/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-04 Lab Sample ID: 280-189130-4
Matrix: Water Lab File ID: X514918.D
Analysis Method: 8260D Date Collected: 03/21/2024 13:59
Sample wt/vol: 5(mL) Date Analyzed: 03/26/2024 12:34
Soil Aliquot Vol: Dilution Factor: 1
Soil Extract Vol.: GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: Level: (low/med) Low
Analysis Batch No.: 647102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	1.0	U	1.0
95-49-8	2-Chlorotoluene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.2		1.0
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5
97-63-2	Ethyl methacrylate	3.0	U	3.0
98-06-6	tert-Butylbenzene	1.0	U	1.0
98-82-8	Isopropylbenzene	1.0	U	1.0
99-87-6	4-Isopropyltoluene	1.0	U	1.0
1330-20-7	Xylenes, Total	1.0	U	1.0
540-59-0	1,2-Dichloroethene, Total	1.0	U	1.0
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0
STL00209	Trihalomethanes, Total	1.0	U	1.0
STL00431	Total BTEX	1.0	U	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		70-127
1868-53-7	Dibromofluoromethane (Surr)	96		77-120
2037-26-5	Toluene-d8 (Surr)	93		80-125
460-00-4	4-Bromofluorobenzene (Surr)	91		78-120

MS 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-05 | Lab Sample ID: 280-189130-5
Matrix: Water | Lab File ID: X514931.D
Analysis Method: 8260D | Date Collected: 03/21/2024 14:10
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 17:18
Soil Aliquot Vol: | Dilution Factor: 2
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	2.0	U	2.0
100-42-5	Styrene	2.0	U	2.0
10061-01-5	cis-1,3-Dichloropropene	4.0	U	4.0
10061-02-6	trans-1,3-Dichloropropene	4.0	U	4.0
103-65-1	N-Propylbenzene	2.0	U	2.0
104-51-8	n-Butylbenzene	2.0	U	2.0
106-43-4	4-Chlorotoluene	2.0	U	2.0
106-46-7	1,4-Dichlorobenzene	2.0	U	2.0
106-93-4	Ethylene Dibromide	2.0	U	2.0
107-05-1	3-Chloro-1-propene	4.0	U	4.0
107-06-2	1,2-Dichloroethane	2.0	U	2.0
107-13-1	Acrylonitrile	40	U	40
108-05-4	Vinyl acetate	6.0	U	6.0
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10
108-67-8	1,3,5-Trimethylbenzene	2.0	U	2.0
108-86-1	Bromobenzene	2.0	U	2.0
108-87-2	Methylcyclohexane	2.0	U	2.0
108-88-3	Toluene	2.0	U	2.0
108-90-7	Chlorobenzene	2.0	U	2.0
109-99-9	Tetrahydrofuran	14	U	14
110-54-3	Hexane	4.0	U	4.0
110-82-7	Cyclohexane	2.0	U	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0	U	2.0
124-48-1	Chlorodibromomethane	4.0	U	4.0
127-18-4	Tetrachloroethene	28		2.0
135-98-8	sec-Butylbenzene	2.0	U	2.0
142-28-9	1,3-Dichloropropane	2.0	U	2.0
156-59-2	cis-1,2-Dichloroethene	2.0	U	2.0
156-60-5	trans-1,2-Dichloroethene	2.0	U	2.0
1634-04-4	Methyl tert-butyl ether	10	U	10
179601-23-1	m-Xylene & p-Xylene	4.0	U	4.0
541-73-1	1,3-Dichlorobenzene	2.0	U	2.0
56-23-5	Carbon tetrachloride	2.0	U	2.0
563-58-6	1,1-Dichloropropene	2.0	U	2.0

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-05 | Lab Sample ID: 280-189130-5

Matrix: Water | Lab File ID: X514931.D

Analysis Method: 8260D | Date Collected: 03/21/2024 14:10

Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 17:18

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: RXI-624Sil MS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
591-78-6	2-Hexanone	10	U	10
594-20-7	2,2-Dichloropropane	2.0	U	2.0
60-29-7	Ethyl ether	4.0	U	4.0
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	2.0
67-64-1	Acetone	440		30
67-66-3	Chloroform	2.0	U	2.0
71-43-2	Benzene	2.0	U	2.0
71-55-6	1,1,1-Trichloroethane	2.0	U	2.0
74-83-9	Bromomethane	10	U	10
74-87-3	Chloromethane	4.0	U	4.0
74-88-4	Iodomethane	10	U	10
74-95-3	Dibromomethane	2.0	U	2.0
74-97-5	Chlorobromomethane	2.0	✗ U5	2.0
75-00-3	Chloroethane	8.0	U	8.0
75-01-4	Vinyl chloride	4.0	U	4.0
75-09-2	Methylene Chloride	4.0	U	4.0
75-15-0	Carbon disulfide	4.0	U	4.0
75-25-2	Bromoform	4.0	U	4.0
75-27-4	Dichlorobromomethane	2.0	U	2.0
75-34-3	1,1-Dichloroethane	2.0	U	2.0
75-35-4	1,1-Dichloroethene	2.0	U	2.0
75-69-4	Trichlorofluoromethane	4.0	U	4.0
75-71-8	Dichlorodifluoromethane	6.0	✗ U5	6.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.0	U	6.0
78-87-5	1,2-Dichloropropane	2.0	U	2.0
78-93-3	2-Butanone (MEK)	31		30
79-00-5	1,1,2-Trichloroethane	2.0	U	2.0
79-01-6	Trichloroethene	2.0	U	2.0
79-20-9	Methyl acetate	10	U	10
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	2.0
87-61-6	1,2,3-Trichlorobenzene	4.0	U	4.0
87-68-3	Hexachlorobutadiene	4.0	U	4.0
91-20-3	Naphthalene	4.0	U	4.0

cw

cw

MS 04/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-05 | Lab Sample ID: 280-189130-5

Matrix: Water | Lab File ID: X514931.D

Analysis Method: 8260D | Date Collected: 03/21/2024 14:10

Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 17:18

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	2.0	U	2.0
95-49-8	2-Chlorotoluene	2.0	U	2.0
95-50-1	1,2-Dichlorobenzene	2.0	U	2.0
95-63-6	1,2,4-Trimethylbenzene	2.0	U	2.0
96-12-8	1,2-Dibromo-3-Chloropropane	10	U	10
96-18-4	1,2,3-Trichloropropane	5.0	U	5.0
97-63-2	Ethyl methacrylate	6.0	U	6.0
98-06-6	tert-Butylbenzene	2.0	U	2.0
98-82-8	Isopropylbenzene	2.0	U	2.0
99-87-6	4-Isopropyltoluene	2.0	U	2.0
1330-20-7	Xylenes, Total	2.0	U	2.0
540-59-0	1,2-Dichloroethene, Total	2.0	U	2.0
542-75-6	1,3-Dichloropropene, Total	4.0	U	4.0
STL00209	Trihalomethanes, Total	2.0	U	2.0
STL00431	Total BTEX	2.0	U	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		76-127
1868-53-7	Dibromofluoromethane (Surr)	95		77-120
2037-26-5	Toluene-d8 (Surr)	92		80-125
460-00-4	4-Bromofluorobenzene (Surr)	90		78-120

MM 6/5/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-06 | Lab Sample ID: 280-189130-6
Matrix: Water | Lab File ID: X514919.D
Analysis Method: 8260D | Date Collected: 03/21/2024 13:54
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 12:56
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-41-4	Ethylbenzene	1.0	U	1.0	
100-42-5	Styrene	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0	
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0	
103-65-1	N-Propylbenzene	1.0	U	1.0	
104-51-8	n-Butylbenzene	1.0	U	1.0	
106-43-4	4-Chlorotoluene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
106-93-4	Ethylene Dibromide	1.0	U	1.0	
107-05-1	3-Chloro-1-propene	2.0	U	2.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
107-13-1	Acrylonitrile	20	U	20	
108-05-4	Vinyl acetate	3.0	U	3.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	
108-86-1	Bromobenzene	1.0	U	1.0	
108-87-2	Methylcyclohexane	1.0	U	1.0	
108-88-3	Toluene	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
109-99-9	Tetrahydrofuran	7.0	U	7.0	
110-54-3	Hexane	2.0	U	2.0	
110-82-7	Cyclohexane	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
124-48-1	Chlorodibromomethane	2.0	U	2.0	
127-18-4	Tetrachloroethene	60		1.0	
135-98-8	sec-Butylbenzene	1.0	U	1.0	
142-28-9	1,3-Dichloropropane	1.0	U	1.0	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
56-23-5	Carbon tetrachloride	1.0	U	1.0	
563-58-6	1,1-Dichloropropene	1.0	U	1.0	

MT 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-06 | Lab Sample ID: 280-189130-6
Matrix: Water | Lab File ID: X514919.D
Analysis Method: 8260D | Date Collected: 03/21/2024 13:54
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 12:56
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624Sil MS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	5.0	U	5.0	
594-20-7	2,2-Dichloropropane	1.0	U	1.0	
60-29-7	Ethyl ether	2.0	U	2.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	
67-64-1	Acetone	150		15	
67-66-3	Chloroform	1.0	U	1.0	
71-43-2	Benzene	1.0	U	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
74-83-9	Bromomethane	5.0	U	5.0	
74-87-3	Chloromethane	2.0	U	2.0	
74-88-4	Iodomethane	5.0	U	5.0	
74-95-3	Dibromomethane	1.0	U	1.0	
74-97-5	Chlorobromomethane	1.0	✗ U5	1.0	CW
75-00-3	Chloroethane	4.0	U	4.0	
75-01-4	Vinyl chloride	2.0	U	2.0	
75-09-2	Methylene Chloride	2.0	U	2.0	
75-15-0	Carbon disulfide	2.0	U	2.0	
75-25-2	Bromoform	2.0	U	2.0	
75-27-4	Dichlorobromomethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
75-69-4	Trichlorofluoromethane	2.0	U	2.0	
75-71-8	Dichlorodifluoromethane	3.0	✗ U5	3.0	CW
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	15	U	15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
79-01-6	Trichloroethene	1.0	U	1.0	
79-20-9	Methyl acetate	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0	
87-68-3	Hexachlorobutadiene	2.0	U	2.0	
91-20-3	Naphthalene	2.0	U	2.0	

MF 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-06 | Lab Sample ID: 280-189130-6
Matrix: Water | Lab File ID: X514919.D
Analysis Method: 8260D | Date Collected: 03/21/2024 13:54
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 12:56
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	1.0	U	1.0	
95-49-8	2-Chlorotoluene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5	
97-63-2	Ethyl methacrylate	3.0	U	3.0	
98-06-6	tert-Butylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene	1.0	U	1.0	
99-87-6	4-Isopropyltoluene	1.0	U	1.0	
1330-20-7	Xylenes, Total	1.0	U	1.0	
540-59-0	1,2-Dichloroethene, Total	1.0	U	1.0	
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0	
3TL00209	Trihalomethanes, Total	1.0	U	1.0	
3TL00431	Total BTEX	1.0	U	1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr	84		70-127
1868-53-7	Dibromofluoromethane (Surr)	95		77-120
2037-26-5	Toluene-d8 (Surr)	97		80-125
460-00-4	4-Bromofluorobenzene (Surr)	90		78-120

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-08 | Lab Sample ID: 280-189130-7
Matrix: Water | Lab File ID: X514920.D
Analysis Method: 8260D | Date Collected: 03/21/2024 13:29
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 13:17
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids. | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	20
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0	U	2.0
110-82-7	Cyclohexane	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	150		1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	7.9		1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

MF 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-08 | Lab Sample ID: 280-189130-7
Matrix: Water | Lab File ID: X514920.D
Analysis Method: 8260D | Date Collected: 03/21/2024 13:29
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 13:17
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	5.0	U	5.0	
594-20-7	2,2-Dichloropropane	1.0	U	1.0	
60-29-7	Ethyl ether	2.0	U	2.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	
67-64-1	Acetone	110		15	
67-66-3	Chloroform	1.0	U	1.0	
71-43-2	Benzene	1.0	U	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
74-83-9	Bromomethane	5.0	U	5.0	
74-87-3	Chloromethane	2.0	U	2.0	
74-88-4	Iodomethane	5.0	U	5.0	
74-95-3	Dibromomethane	1.0	U	1.0	
74-97-5	Chlorobromomethane	1.0	U	1.0	CW
75-00-3	Chloroethane	4.0	U	4.0	
75-01-4	Vinyl chloride	2.0	U	2.0	
75-09-2	Methylene Chloride	2.0	U	2.0	
75-15-0	Carbon disulfide	2.0	U	2.0	
75-25-2	Bromoform	2.0	U	2.0	
75-27-4	Dichlorobromomethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
75-69-4	Trichlorofluoromethane	2.0	U	2.0	
75-71-8	Dichlorodifluoromethane	3.0	U	3.0	CW
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	15	U	15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
79-01-6	Trichloroethene	4.2		1.0	
79-20-9	Methyl acetate	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0	
87-68-3	Hexachlorobutadiene	2.0	U	2.0	
91-20-3	Naphthalene	2.0	U	2.0	

MF 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver
Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-08
Lab Sample ID: 280-189130-7
Matrix: Water
Lab File ID: X514920.D
Analysis Method: 8260D
Date Collected: 03/21/2024 13:29
Sample wt/vol: 5(mL)
Date Analyzed: 03/26/2024 13:17
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids:
Level: (low/med) Low
Analysis Batch No.: 647102
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	1.0	U	1.0	
95-49-8	2-Chlorotoluene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5	
97-63-2	Ethyl methacrylate	3.0	U	3.0	
98-06-6	tert-Butylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene	1.0	U	1.0	
99-87-6	4-Isopropyltoluene	1.0	U	1.0	
1330-20-7	Xylenes, Total	1.0	U	1.0	
540-59-0	1,2-Dichloroethene, Total	7.9		1.0	
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0	
STL00209	Trihalomethanes, Total	1.0	U	1.0	
STL00431	Total BTEX	1.0	U	1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		70-127
1868-53-7	Dibromofluoromethane (Surr)	93		77-120
2037-26-5	Toluene-d8 (Surr)	95		80-125
460-00-4	4-Bromofluorobenzene (Surr)	92		78-120

MA 04/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-09 | Lab Sample ID: 280-189130-8
Matrix: Water | Lab File ID: X514928.D
Analysis Method: 8260D | Date Collected: 03/21/2024 12:36
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 16:12
Soil Aliquot Vol: | Dilution Factor: 40
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	40	U	40
100-42-5	Styrene	40	U	40
10061-01-5	cis-1,3-Dichloropropene	80	U	80
10061-02-6	trans-1,3-Dichloropropene	80	U	80
103-65-1	N-Propylbenzene	40	U	40
104-51-8	n-Butylbenzene	40	U	40
106-43-4	4-Chlorotoluene	40	U	40
106-46-7	1,4-Dichlorobenzene	40	U	40
106-93-4	Ethylene Dibromide	40	U	40
107-05-1	3-Chloro-1-propene	80	U	80
107-06-2	1,2-Dichloroethane	40	U	40
107-13-1	Acrylonitrile	800	U	800
108-05-4	Vinyl acetate	120	U	120
108-10-1	4-Methyl-2-pentanone (MIBK)	200	U	200
108-67-8	1,3,5-Trimethylbenzene	40	U	40
108-86-1	Bromobenzene	40	U	40
108-87-2	Methylcyclohexane	40	U	40
108-88-3	Toluene	40	U	40
108-90-7	Chlorobenzene	40	U	40
109-99-9	Tetrahydrofuran	280	U	280
110-54-3	Hexane	80	U	80
110-82-7	Cyclohexane	40	U	40
120-82-1	1,2,4-Trichlorobenzene	40	U	40
124-48-1	Chlorodibromomethane	80	U	80
127-18-4	Tetrachloroethene	4300		40
135-98-8	sec-Butylbenzene	40	U	40
142-28-9	1,3-Dichloropropane	40	U	40
156-59-2	cis-1,2-Dichloroethene	110		40
156-60-5	trans-1,2-Dichloroethene	40	U	40
1634-04-4	Methyl tert-butyl ether	200	U	200
179601-23-1	m-Xylene & p-Xylene	80	U	80
541-73-1	1,3-Dichlorobenzene	40	U	40
56-23-5	Carbon tetrachloride	40	U	40
563-58-6	1,1-Dichloropropene	40	U	40

MF 4/16/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-09 | Lab Sample ID: 280-189130-8
Matrix: Water | Lab File ID: X514928.D
Analysis Method: 8260D | Date Collected: 03/21/2024 12:36
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 16:12
Soil Aliquot Vol: | Dilution Factor: 40
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	200	U	200	
594-20-7	2,2-Dichloropropane	40	U	40	
60-29-7	Ethyl ether	80	U	80	
630-20-6	1,1,1,2-Tetrachloroethane	40	U	40	
67-64-1	Acetone	600	U	600	
67-66-3	Chloroform	40	U	40	
71-43-2	Benzene	40	U	40	
71-55-6	1,1,1-Trichloroethane	40	U	40	
74-83-9	Bromoethane	200	U	200	
74-87-3	Chloromethane	80	U	80	
74-88-4	Iodomethane	200	U	200	
74-95-3	Dibromomethane	40		40	
74-97-5	Chlorobromomethane	40	J U5	40	CW
75-00-3	Chloroethane	160	U	160	
75-01-4	Vinyl chloride	80	U	80	
75-09-2	Methylene Chloride	80	U	80	
75-15-0	Carbon disulfide	80	U	80	
75-25-2	Bromoform	80	U	80	
75-27-4	Dichlorobromomethane	40	U	40	
75-34-3	1,1-Dichloroethane	40	U	40	
75-35-4	1,1-Dichloroethene	40	U	40	
75-69-4	Trichlorofluoromethane	80	U	80	
75-71-8	Dichlorodifluoromethane	120	J U5	120	CW
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	120	U	120	
78-87-5	1,2-Dichloropropane	40	U	40	
78-93-3	2-Butanone (MEK)	600	U	600	
79-00-5	1,1,2-Trichloroethane	40	U	40	
79-01-6	Trichloroethene	160		40	
79-20-9	Methyl acetate	200	U	200	
79-34-5	1,1,2,2-Tetrachloroethane	40	U	40	
87-61-6	1,2,3-Trichlorobenzene	80	U	80	
87-68-3	Hexachlorobutadiene	80	U	80	
91-20-3	Naphthalene	80	U	80	

MR 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-09 | Lab Sample ID: 280-189130-8
Matrix: Water | Lab File ID: X514928.D
Analysis Method: 8260D | Date Collected: 03/21/2024 12:36
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 16:12
Soil Aliquot Vol: | Dilution Factor: 40
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	40	U	40	
95-49-8	2-Chlorotoluene	40	U	40	
95-50-1	1,2-Dichlorobenzene	40	U	40	
95-63-6	1,2,4-Trimethylbenzene	40	U	40	
96-12-8	1,2-Dibromo-3-Chloropropane	200	U	200	
96-18-4	1,2,3-Trichloropropane	100	U	100	
97-63-2	Ethyl methacrylate	120	U	120	
98-06-6	tert-Butylbenzene	40	U	40	
98-82-8	Isopropylbenzene	40	U	40	
99-87-6	4-Isopropyltoluene	40	U	40	
1330-20-7	Xylenes, Total	40	U	40	
540-59-0	1,2-Dichloroethene, Total	110		40	
542-75-6	1,3-Dichloropropene, Total	80	U	80	
STL00209	Trihalomethanes, Total	40	U	40	
STL00431	Total BTEX	40	U	40	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		70-127
1868-53-7	Dibromofluoromethane (Surr)	94		77-120
2037-26-5	Toluene-d8 (Surr)	93		80-125
460-00-4	4-Bromofluorobenzene (Surr)	90		78-120

MM 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-10 | Lab Sample ID: 280-189130-9
Matrix: Water | Lab File ID: X514921.D
Analysis Method: 8260D | Date Collected: 03/21/2024 13:04
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 13:39
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	20
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0	U	2.0
110-82-7	Cyclohexane	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	150		1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-10 Lab Sample ID: 280-189130-9

Matrix: Water Lab File ID: X514921.D

Analysis Method: 8260D Date Collected: 03/21/2024 13:04

Sample wt/vol: 5(mL) Date Analyzed: 03/26/2024 13:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 647102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	5.0	U	5.0	
594-20-7	2,2-Dichloropropane	1.0	U	1.0	
60-29-7	Ethyl ether	2.0	U	2.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	
67-64-1	Acetone	47		11	
67-66-3	Chloroform	1.0	U	1.0	
71-43-2	Benzene	1.0	U	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
74-83-9	Bromomethane	5.0	U	5.0	
74-87-3	Chloromethane	2.0	U	2.0	
74-88-4	Iodomethane	5.0	U	5.0	
74-95-3	Dibromomethane	1.0	U	1.0	
74-97-5	Chlorobromomethane	1.0	U	1.0	CW
75-00-3	Chloroethane	4.0	U	4.0	
75-01-4	Vinyl chloride	2.0	U	2.0	
75-09-2	Methylene Chloride	2.0	U	2.0	
75-15-0	Carbon disulfide	2.0	U	2.0	
75-25-2	Bromoform	2.0	U	2.0	
75-27-4	Dichlorobromomethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
75-69-4	Trichlorofluoromethane	2.0	U	2.0	
75-71-8	Dichlorodifluoromethane	3.0	U	3.0	CW
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	15	U	15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
79-01-6	Trichloroethene	2.5		1.0	
79-20-9	Methyl acetate	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0	
87-68-3	Hexachlorobutadiene	2.0	U	2.0	
91-20-3	Naphthalene	2.0	U	2.0	

MM 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-10 Lab Sample ID: 280-189130-9
Matrix: Water Lab File ID: X514921.D
Analysis Method: 8260D Date Collected: 03/21/2024 13:04
Sample wt/vol: 5(mL) Date Analyzed: 03/26/2024 13:39
Soil Aliquot Vol: Dilution Factor: 1
Soil Extract Vol.: GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: Level: (low/med) Low
Analysis Batch No.: 647102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	1.0	U	1.0	
95-49-8	2-Chlorotoluene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5	
97-63-2	Ethyl methacrylate	3.0	U	3.0	
98-06-6	tert-Butylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene	1.0	U	1.0	
99-87-6	4-Isopropyltoluene	1.0	U	1.0	
1330-20-7	Xylenes, Total	1.0	U	1.0	
540-59-0	1,2-Dichloroethene, Total	1.0	U	1.0	
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0	
STL00209	Trihalomethanes, Total	1.0	U	1.0	
STL00431	Total BTEX	1.0	U	1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-127
1868-53-7	Dibromofluoromethane (Surr)	91		77-120
2037-26-5	Toluene-d8 (Surr)	96		80-125
460-00-4	4-Bromofluorobenzene (Surr)	90		78-120

MCF 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: Trip Blank | Lab Sample ID: 280-189130-10
Matrix: Water | Lab File ID: X514912.D
Analysis Method: 8260D | Date Collected: 03/21/2024 14:50
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 10:25
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	20
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0	U	2.0
110-82-7	Cyclohexane	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	1.0	U	1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189130-1

SDG No.:

Client Sample ID: Trip Blank Lab Sample ID: 280-189130-10

Matrix: Water Lab File ID: X514912.D

Analysis Method: 8260D Date Collected: 03/21/2024 14:50

Sample wt/vol: 5(mL) Date Analyzed: 03/26/2024 10:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 647102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	5.0	U	5.0	
594-20-7	2,2-Dichloropropane	1.0	U	1.0	
60-29-7	Ethyl ether	2.0	U	2.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	
67-64-1	Acetone	15	U	15	
67-66-3	Chloroform	1.0	U	1.0	
71-43-2	Benzene	1.0	U	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
74-83-9	Bromomethane	5.0	U	5.0	
74-87-3	Chloromethane	2.0	U	2.0	
74-88-4	Iodomethane	5.0	U	5.0	
74-95-3	Dibromomethane	1.0	U	1.0	
74-97-5	Chlorobromomethane	1.0	U LD	1.0	CW
75-00-3	Chloroethane	4.0	U	4.0	
75-01-4	Vinyl chloride	2.0	U	2.0	
75-09-2	Methylene Chloride	2.0	U	2.0	
75-15-0	Carbon disulfide	2.0	U	2.0	
75-25-2	Bromoform	2.0	U	2.0	
75-27-4	Dichlorobromomethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
75-69-4	Trichlorofluoromethane	2.0	U	2.0	
75-71-8	Dichlorodifluoromethane	3.0	U LD	3.0	CW
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	15	U	15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
79-01-6	Trichloroethene	1.0	U	1.0	
79-20-9	Methyl acetate	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0	
87-68-3	Hexachlorobutadiene	2.0	U	2.0	
91-20-3	Naphthalene	2.0	U	2.0	

MF 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 280-189130-10

Matrix: Water | Lab File ID: X514912.D

Analysis Method: 8260D | Date Collected: 03/21/2024 14:50

Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 10:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624Sil MS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	1.0	U	1.0	
95-49-8	2-Chlorotoluene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5	
97-63-2	Ethyl methacrylate	3.0	U	3.0	
98-06-6	tert-Butylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene	1.0	U	1.0	
99-87-6	4-Isopropyltoluene	1.0	U	1.0	
1330-20-7	Xylenes, Total	1.0	U	1.0	
540-59-0	1,2-Dichloroethene, Total	1.0	U	1.0	
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0	
67L00709	Trihalomethanes, Total	1.0	U	1.0	
67L00431	Total BTEX	1.0	U	1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		70-127
1868-53-7	Dibromofluoromethane (Surr)	93		77-120
2037-26-5	Toluene-d8 (Surr)	98		80-125
460-00-4	4-Bromofluorobenzene (Surr)	89		78-120

MF 4/8/24

11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-11 | Lab Sample ID: 280-189130-11
Matrix: Water | Lab File ID: X514929.D
Analysis Method: 8260D | Date Collected: 03/21/2024 12:28
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 16:34
Soil Aliquot Vol: | Dilution Factor: 4
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids. | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-41-4	Ethylbenzene	4.0	U	4.0	
100-42-5	Styrene	4.0	U	4.0	
10061-01-5	cis-1,3-Dichloropropene	8.0	U	8.0	
10061-02-6	trans-1,3-Dichloropropene	8.0	U	8.0	
103-65-1	N-Propylbenzene	4.0	U	4.0	
104-51-8	n-Butylbenzene	4.0	U	4.0	
106-43-4	4-Chlorotoluene	4.0	U	4.0	
106-46-7	1,4-Dichlorobenzene	4.0	U	4.0	
106-93-4	Ethylene Dibromide	4.0	U	4.0	
107-05-1	3-Chloro-1-propene	8.0	U	8.0	
107-06-2	1,2-Dichloroethane	4.0	U	4.0	
107-13-1	Acrylonitrile	80	U	80	
108-05-4	Vinyl acetate	12	U	12	
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U	20	
108-67-8	1,3,5-Trimethylbenzene	4.0	U	4.0	
108-86-1	Bromobenzene	4.0	U	4.0	
108-87-2	Methylcyclohexane	4.0	U	4.0	
108-88-3	Toluene	4.0	U	4.0	
108-90-7	Chlorobenzene	4.0	U	4.0	
109-99-9	Tetrahydrofuran	28	U	28	
110-54-3	Hexane	8.0	U	8.0	
110-82-7	Cyclohexane	4.0	U	4.0	
120-82-1	1,2,4-Trichlorobenzene	4.0	U	4.0	
124-48-1	Chlorodibromomethane	8.0	U	8.0	
127-18-4	Tetrachloroethene	670		4.0	
135-98-8	sec-Butylbenzene	4.0	U	4.0	
142-28-9	1,3-Dichloropropane	4.0	U	4.0	
156-59-2	cis-1,2-Dichloroethene	4.7		4.0	
156-60-5	trans-1,2-Dichloroethene	4.0	U	4.0	
1634-04-4	Methyl tert-butyl ether	20	U	20	
179601-23-1	m-Xylene & p-Xylene	8.0	U	8.0	
541-73-1	1,3-Dichlorobenzene	4.0	U	4.0	
56-23-5	Carbon tetrachloride	4.0	U	4.0	
563-58-6	1,1-Dichloropropene	4.0	U	4.0	

MM 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-11 Lab Sample ID: 280-189130-11

Matrix: Water Lab File ID: X514929.D

Analysis Method: 8260D Date Collected: 03/21/2024 12:28

Sample wt/vol: 5(mL) Date Analyzed: 03/26/2024 16:34

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 647102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
591-78-6	2-Hexanone	20	U	20
594-20-7	2,2-Dichloropropane	4.0	U	4.0
60-29-7	Ethyl ether	8.0	U	8.0
630-20-6	1,1,1,2-Tetrachloroethane	4.0	U	4.0
67-64-1	Acetone	132		60
67-66-3	Chloroform	4.0	U	4.0
71-43-2	Benzene	4.0	U	4.0
71-55-6	1,1,1-Trichloroethane	4.0	U	4.0
74-83-9	Bromomethane	20	U	20
74-87-3	Chloromethane	8.0	U	8.0
74-88-4	Iodomethane	20	U	20
74-95-3	Dibromomethane	4.0	U	4.0
74-97-5	Chlorobromomethane	4.0	✗ UJ	4.0
75-00-3	Chloroethane	16	U	16
75-01-4	Vinyl chloride	8.0	U	8.0
75-09-2	Methylene Chloride	8.0	U	8.0
75-15-0	Carbon disulfide	8.0	U	8.0
75-25-2	Bromoform	8.0	U	8.0
75-27-4	Dichlorobromomethane	4.0	U	4.0
75-34-3	1,1-Dichloroethane	4.0	U	4.0
75-35-4	1,1-Dichloroethene	4.0	U	4.0
75-69-4	Trichlorofluoromethane	8.0	U	8.0
75-71-8	Dichlorodifluoromethane	12	✗ UJ	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	12
78-87-5	1,2-Dichloropropane	4.0	U	4.0
78-93-3	2-Butanone (MEK)	60	U	60
79-00-5	1,1,2-Trichloroethane	4.0	U	4.0
79-01-6	Trichloroethene	11		4.0
79-20-9	Methyl acetate	20	U	20
79-34-5	1,1,2,2-Tetrachloroethane	4.0	U	4.0
87-61-6	1,2,3-Trichlorobenzene	8.0	U	8.0
87-68-3	Hexachlorobutadiene	8.0	U	8.0
91-20-3	Naphthalene	8.0	U	8.0

CW

CW

MF 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-11 | Lab Sample ID: 280-189130-11

Matrix: Water | Lab File ID: X514929.D

Analysis Method: 8260D | Date Collected: 03/21/2024 12:28

Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 16:34

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	4.0	U	4.0	
95-49-8	2-Chlorotoluene	4.0	U	4.0	
95-50-1	1,2-Dichlorobenzene	4.0	U	4.0	
95-63-6	1,2,4-Trimethylbenzene	4.0	U	4.0	
96-12-8	1,2-Dibromo-3-Chloropropane	20	U	20	
96-18-4	1,2,3-Trichloropropane	10	U	10	
97-63-2	Ethyl methacrylate	12	U	12	
98-06-6	tert-Butylbenzene	4.0	U	4.0	
98-82-8	Isopropylbenzene	4.0	U	4.0	
99-87-6	4-Isopropyltoluene	4.0	U	4.0	
1330-20-7	Xylenes, Total	4.0	U	4.0	
540-59-0	1,2-Dichloroethene, Total	4.7		4.0	
542-75-6	1,3-Dichloropropene, Total	8.0	U	8.0	
STL00209	Trihalomethanes, Total	4.0	U	4.0	
STL00431	Total BTEX	4.0	U	4.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-127
1868-53-7	Dibromofluoromethane (Surr)	93		77-120
2037-26-5	Toluene-d8 (Surr)	95		80-125
460-00-4	4-Bromofluorobenzene (Surr)	92		78-120

MM 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-12 | Lab Sample ID: 280-189130-12

Matrix: Water | Lab File ID: X514922.D

Analysis Method: 8260D | Date Collected: 03/21/2024 11:41

Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 14:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	20
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0	U	2.0
110-82-7	Cyclohexane	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	130		1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	9.5		1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

MF 6/19/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-12 | Lab Sample ID: 280-189130-12
Matrix: Water | Lab File ID: X514922.D
Analysis Method: 8260D | Date Collected: 03/21/2024 11:41
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 14:01
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	5.0	U	5.0	
594-20-7	2,2-Dichloropropane	1.0	U	1.0	
60-29-7	Ethyl ether	2.0	U	2.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	
67-64-1	Acetone	130		15	
67-66-3	Chloroform	1.0	U	1.0	
71-43-2	Benzene	1.0	U	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
74-83-9	Bromomethane	5.0	U	5.0	
74-87-3	Chloromethane	2.0	U	2.0	
74-88-4	Iodomethane	5.0	U	5.0	
74-95-3	Dibromomethane	1.0	U	1.0	
74-97-5	Chlorobromomethane	1.0	✗ U5	1.0	cw
75-00-3	Chloroethane	4.0	U	4.0	
75-01-4	Vinyl chloride	2.0	U	2.0	
75-09-2	Methylene Chloride	2.0	U	2.0	
75-15-0	Carbon disulfide	2.0	U	2.0	
75-25-2	Bromoform	2.0	U	2.0	
75-27-4	Dichlorobromomethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
75-69-4	Trichlorofluoromethane	2.0	U	2.0	
75-71-8	Dichlorodifluoromethane	3.0	✗ U5	3.0	cw
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	15	U	15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
79-01-6	Trichloroethene	5.2		1.0	
79-20-9	Methyl acetate	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0	
87-68-3	Hexachlorobutadiene	2.0	U	2.0	
91-20-3	Naphthalene	2.0	U	2.0	

MA 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-12 | Lab Sample ID: 280-189130-12
Matrix: Water | Lab File ID: X514922.D
Analysis Method: 8260D | Date Collected: 03/21/2024 11:41
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 14:01
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	1.0	U	1.0
95-49-8	2-Chlorotoluene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5
97-63-2	Ethyl methacrylate	3.0	U	3.0
98-06-6	tert-Butylbenzene	1.0	U	1.0
98-82-8	Isopropylbenzene	1.0	U	1.0
99-87-6	4-Isopropyltoluene	1.0	U	1.0
1330-20-7	Xylenes, Total	1.0	U	1.0
540-59-0	1,2-Dichloroethene, Total	9.5		1.0
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0
STL00209	Trihalomethanes, Total	1.0	U	1.0
STL00431	Total BTEX	1.0	U	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		70-127
1868-53-7	Dibromofluoromethane (Surr)	93		77-120
2037-26-5	Toluene-d8 (Surr)	96		80-125
460-00-4	4-Bromofluorobenzene (Surr)	90		78-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-13 | Lab Sample ID: 280-189130-13
Matrix: Water | Lab File ID: X514923.D
Analysis Method: 8260D | Date Collected: 03/21/2024 13:21
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 14:22
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	20
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0	U	2.0
110-82-7	Cyclohexane	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	26		1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

MT 04/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-13 | Lab Sample ID: 280-189130-13

Matrix: Water | Lab File ID: X514923.D

Analysis Method: 8260D | Date Collected: 03/21/2024 13:21

Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 14:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	5.0	U	5.0	
594-20-7	2,2-Dichloropropane	1.0	U	1.0	
60-29-7	Ethyl ether	2.0	U	2.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	
67-64-1	Acetone	180		15	
67-66-3	Chloroform	1.0	U	1.0	
71-43-2	Benzene	1.0	U	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
74-83-9	Bromomethane	5.0	U	5.0	
74-87-3	Chloromethane	2.0	U	2.0	
74-88-4	Iodomethane	5.0	U	5.0	
74-95-3	Dibromomethane	1.0	U	1.0	
74-97-5	Chlorobromomethane	1.0	V U5	1.0	CW
75-00-3	Chloroethane	4.0	U	4.0	
75-01-4	Vinyl chloride	2.0	U	2.0	
75-09-2	Methylene Chloride	2.0	U	2.0	
75-15-0	Carbon disulfide	2.0	U	2.0	
75-25-2	Bromoform	2.0	U	2.0	
75-27-4	Dichlorobromomethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
75-69-4	Trichlorofluoromethane	2.0	U	2.0	
75-71-8	Dichlorodifluoromethane	3.0	V U5	3.0	CW
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	15	U	15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
79-01-6	Trichloroethene	1.0	U	1.0	
79-20-9	Methyl acetate	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0	
87-68-3	Hexachlorobutadiene	2.0	U	2.0	
91-20-3	Naphthalene	2.0	U	2.0	

MAT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-13 | Lab Sample ID: 280-189130-13
Matrix: Water | Lab File ID: X514923.D
Analysis Method: 8260D | Date Collected: 03/21/2024 13:21
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 14:22
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	1.0	U	1.0	
95-49-8	2-Chlorotoluene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5	
97-63-2	Ethyl methacrylate	3.0	U	3.0	
98-06-6	tert-Butylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene	1.0	U	1.0	
99-87-6	4-Isopropyltoluene	1.0	U	1.0	
1330-20-7	Xylenes, Total	1.0	U	1.0	
540-59-0	1,2-Dichloroethene, Total	1.0	U	1.0	
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0	
GTL00209	Trihalomethanes, Total	1.0	U	1.0	
GTL00431	Total BTEX	1.0	U	1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		70-127
1868-53-7	Dibromofluoromethane (Surr)	93		77-120
2037-26-5	Toluene-d8 (Surr)	94		80-125
460-00-4	4-Bromofluorobenzene (Surr)	91		78-120

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-15 | Lab Sample ID: 280-189130-14
Matrix: Water | Lab File ID: X514924.D
Analysis Method: 8260D | Date Collected: 03/21/2024 13:46
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 14:44
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	20
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0		2.0
110-82-7	Cyclohexane	1.0		1.0
120-82-1	1,2,4-Trichlorobenzene	1.0		1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	82		1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-15 | Lab Sample ID: 280-189130-14

Matrix: Water | Lab File ID: X514924.D

Analysis Method: 8260D | Date Collected: 03/21/2024 13:46

Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 14:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids. | Level: (low/med) Low

Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	5.0	U	5.0	
594-20-7	2,2-Dichloropropane	1.0	U	1.0	
60-29-7	Ethyl ether	2.0	U	2.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	
67-64-1	Acetone	89		15	
67-66-3	Chloroform	1.0	U	1.0	
71-43-2	Benzene	1.0	U	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
74-83-9	Bromomethane	5.0	U	5.0	
74-87-3	Chloromethane	2.0	U	2.0	
74-88-4	Iodomethane	5.0	U	5.0	
74-95-3	Dibromomethane	1.0	U	1.0	
74-97-5	Chlorobromomethane	1.0	U	1.0	
75-00-3	Chloroethane	4.0	U	4.0	
75-01-4	Vinyl chloride	2.0	U	2.0	
75-09-2	Methylene Chloride	2.0	U	2.0	
75-15-0	Carbon disulfide	2.0	U	2.0	
75-25-2	Bromoform	2.0	U	2.0	
75-27-4	Dichlorobromomethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
75-69-4	Trichlorofluoromethane	2.0	U	2.0	
75-71-8	Dichlorodifluoromethane	3.0	U	3.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	15	U	15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
79-01-6	Trichloroethene	1.0		1.0	
79-20-9	Methyl acetate	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0	
87-68-3	Hexachlorobutadiene	2.0	U	2.0	
91-20-3	Naphthalene	2.0	U	2.0	

MT 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-15 | Lab Sample ID: 280-189130-14
Matrix: Water | Lab File ID: X514924.D
Analysis Method: 8260D | Date Collected: 03/21/2024 13:46
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 14:44
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624Sil MS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids. | Level: (low/med) Low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	1.0	U	1.0	
95-49-8	2-Chlorotoluene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5	
97-63-2	Ethyl methacrylate	3.0	U	3.0	
98-06-6	tert-Butylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene	1.0	U	1.0	
99-87-6	4-Isopropyltoluene	1.0	U	1.0	
1330-20-7	Xylenes, Total	1.0	U	1.0	
540-59-0	1,2-Dichloroethene, Total	1.0	U	1.0	
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0	
STL00209	Trihalomethanes, Total	1.0	U	1.0	
STL00431	Total BTEX	1.0	U	1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		70-127
1868-53-7	Dibromofluoromethane (Surr)	94		77-120
2037-26-5	Toluene-d8 (Surr)	94		80-125
460-00-4	4-Bromofluorobenzene (Surr)	89		78-120

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-16 | Lab Sample ID: 280-189130-15

Matrix: Water | Lab File ID: X514925.D

Analysis Method: 8260D | Date Collected: 03/21/2024 14:05

Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 15:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	20
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0	U	2.0
110-82-7	Cyclohexane	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	35		1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

FORM I 8260D

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-16 | Lab Sample ID: 280-189130-15

Matrix: Water | Lab File ID: X514925.D

Analysis Method: 8260D | Date Collected: 03/21/2024 14:05

Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 15:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	5.0	U	5.0	
594-20-7	2,2-Dichloropropane	1.0	U	1.0	
60-29-7	Ethyl ether	2.0	U	2.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	
67-64-1	Acetone	52		15	
67-66-3	Chloroform	1.0	U	1.0	
71-43-2	Benzene	1.0	U	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
74-83-9	Bromomethane	5.0	U	5.0	
74-87-3	Chloromethane	2.0	U	2.0	
74-88-4	Iodomethane	5.0	U	5.0	
74-95-3	Dibromomethane	1.0	U	1.0	
74-97-5	Chlorobromomethane	1.0	✗ U3	1.0	cw
75-00-3	Chloroethane	4.0	U	4.0	
75-01-4	Vinyl chloride	2.0	U	2.0	
75-09-2	Methylene Chloride	2.0	U	2.0	
75-15-0	Carbon disulfide	2.0	U	2.0	
75-25-2	Bromoform	2.0	U	2.0	
75-27-4	Dichlorobromomethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
75-69-4	Trichlorofluoromethane	2.0	U	2.0	
75-71-8	Dichlorodifluoromethane	3.0	✗ U3	3.0	cw
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	15	U	15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
79-01-6	Trichloroethene	1.0	U	1.0	
79-20-9	Methyl acetate	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0	
87-68-3	Hexachlorobutadiene	2.0	U	2.0	
91-20-3	Naphthalene	2.0	U	2.0	

MT 4/8/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-16 | Lab Sample ID: 280-189130-15

Matrix: Water | Lab File ID: X514925.D

Analysis Method: 8260D | Date Collected: 03/21/2024 14:05

Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 15:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	1.0	U	1.0
95-49-8	2-Chlorotoluene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.4		1.0
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5
97-63-2	Ethyl methacrylate	3.0	U	3.0
98-06-6	tert-Butylbenzene	1.0	U	1.0
98-82-8	Isopropylbenzene	1.0	U	1.0
99-87-6	4-Isopropyltoluene	1.0	U	1.0
1330-20-7	Xylenes, Total	1.0	U	1.0
540-59-0	1,2-Dichloroethene, Total	1.0	U	1.0
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0
STL00209	Trihalomethanes, Total	1.0	U	1.0
STL00431	Total BTEX	1.0	U	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		70-127
1868-53-7	Dibromofluoromethane (Surr)	95		77-120
2037-26-5	Toluene-d8 (Surr)	93		80-125
460-00-4	4-Bromofluorobenzene (Surr)	93		78-120

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189130-1
SDG No.:
Client Sample ID: Trip Blank Lab Sample ID: 280-189130-16
Matrix: Water Lab File ID: X514913.D
Analysis Method: 8260D Date Collected: 03/21/2024 14:50
Sample wt/vol: 5(mL) Date Analyzed: 03/26/2024 10:46
Soil Aliquot Vol: Dilution Factor: 1
Soil Extract Vol.: GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: Level: (low/med) Low
Analysis Batch No.: 647102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-41-4	Ethylbenzene	1.0	U	1.0	
100-42-5	Styrene	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0	
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0	
103-65-1	N-Propylbenzene	1.0	U	1.0	
104-51-8	n-Butylbenzene	1.0	U	1.0	
106-43-4	4-Chlorotoluene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
106-93-4	Ethylene Dibromide	1.0	U	1.0	
107-05-1	3-Chloro-1-propene	2.0	U	2.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
107-13-1	Acrylonitrile	20	U	20	
108-05-4	Vinyl acetate	3.0	U	3.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	
108-86-1	Bromobenzene	1.0	U	1.0	
108-87-2	Methylcyclohexane	1.0	U	1.0	
108-88-3	Toluene	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
109-99-9	Tetrahydrofuran	7.0	U	7.0	
110-54-3	Hexane	2.0	U	2.0	
110-82-7	Cyclohexane	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
124-48-1	Chlorodibromomethane	2.0	U	2.0	
127-18-4	Tetrachloroethene	1.0	U	1.0	
135-98-8	sec-Butylbenzene	1.0	U	1.0	
142-28-9	1,3-Dichloropropane	1.0	U	1.0	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
56-23-5	Carbon tetrachloride	1.0	U	1.0	
563-58-6	1,1-Dichloropropene	1.0	U	1.0	

MF 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1
SDG No.:
Client Sample ID: Trip Blank | Lab Sample ID: 280-189130-16
Matrix: Water | Lab File ID: X514913.D
Analysis Method: 8260D | Date Collected: 03/21/2024 14:50
Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 10:46
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: | Level: (low/med) low
Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	5.0	U	5.0	
594-20-7	2,2-Dichloropropane	1.0	U	1.0	
60-29-7	Ethyl ether	2.0	U	2.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	
67-64-1	Acetone	15	U	15	
67-66-3	Chloroform	1.0	U	1.0	
71-43-2	Benzene	1.0	U	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
74-83-9	Bromomethane	5.0	U	5.0	
74-87-3	Chloromethane	2.0	U	2.0	
74-88-4	Iodomethane	5.0	U	5.0	
74-95-3	Dibromomethane	1.0	U	1.0	
74-97-5	Chlorobromomethane	1.0	U US	1.0	CW
75-00-3	Chloroethane	4.0	U	4.0	
75-01-4	Vinyl chloride	2.0	U	2.0	
75-09-2	Methylene Chloride	2.0	U	2.0	
75-15-0	Carbon disulfide	2.0	U	2.0	
75-25-2	Bromoform	2.0	U	2.0	
75-27-4	Dichlorobromomethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
75-69-4	Trichlorofluoromethane	2.0	U	2.0	
75-71-8	Dichlorodifluoromethane	3.0	U US	3.0	CW
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	15	U	15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
79-01-6	Trichloroethene	1.0	U	1.0	
79-20-9	Methyl acetate	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0	
87-68-3	Hexachlorobutadiene	2.0	U	2.0	
91-20-3	Naphthalene	2.0	U	2.0	

MT 4/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-189130-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 280-189130-16

Matrix: Water | Lab File ID: X514913.D

Analysis Method: 8260D | Date Collected: 03/21/2024 14:50

Sample wt/vol: 5(mL) | Date Analyzed: 03/26/2024 10:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 647102 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	1.0	U	1.0	
95-49-8	2-Chlorotoluene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5	
97-63-2	Ethyl methacrylate	3.0	U	3.0	
98-06-6	tert-Butylbenzene	1.0	U	1.0	
98-82-8	Isopropylbenzene	1.0	U	1.0	
99-87-6	4-Isopropyltoluene	1.0	U	1.0	
1330-20-7	Xylenes, Total	1.0	U	1.0	
540-59-0	1,2-Dichloroethene, Total	1.0	U	1.0	
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0	
STL00209	Trihalomethanes, Total	1.0	U	1.0	
STL00431	Total BTEX	1.0	U	1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		70-127
1868-53-7	Dibromofluoromethane (Surr)	94		77-120
2037-26-5	Toluene-d8 (Surr)	95		80-125
460-00-4	4-Bromofluorobenzene (Surr)	91		78-120

MT 6/18/24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189130-1
SDG No.:
Client Sample ID: MPE-01 DUP Lab Sample ID: 280-189130-17
Matrix: Water Lab File ID: X514926.D
Analysis Method: 8260D Date Collected: 03/21/2024 12:44
Sample wt/vol: 5(mL) Date Analyzed: 03/26/2024 15:27
Soil Aliquot Vol: Dilution Factor: 50
Soil Extract Vol.: GC Column: RXI-624SilMS ID: 0.25(mm)
Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: Level: (low/med) Low
Analysis Batch No.: 647102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	50	U	50
100-42-5	Styrene	50	U	50
10061-01-5	cis-1,3-Dichloropropene	100	U	100
10061-02-6	trans-1,3-Dichloropropene	100	U	100
103-65-1	N-Propylbenzene	50	U	50
104-51-8	n-Butylbenzene	50	U	50
106-43-4	4-Chlorotoluene	50	U	50
106-46-7	1,4-Dichlorobenzene	50	U	50
106-93-4	Ethylene Dibromide	50	U	50
107-05-1	3-Chloro-1-propene	100	U	100
107-06-2	1,2-Dichloroethane	50	U	50
107-13-1	Acrylonitrile	1000	U	1000
108-05-4	Vinyl acetate	150	U	150
108-10-1	4-Methyl-2-pentanone (MIBK)	250	U	250
108-67-8	1,3,5-Trimethylbenzene	50	U	50
108-86-1	Bromobenzene	50	U	50
108-87-2	Methylcyclohexane	50	U	50
108-88-3	Toluene	50	U	50
108-90-7	Chlorobenzene	50	U	50
109-99-9	Tetrahydrofuran	350	U	350
110-54-3	Hexane	100	U	100
110-82-7	Cyclohexane	50	U	50
120-82-1	1,2,4-Trichlorobenzene	50	U	50
124-48-1	Chlorodibromomethane	100	U	100
127-18-4	Tetrachloroethene	5400		50
135-98-8	sec-Butylbenzene	50	U	50
142-28-9	1,3-Dichloropropane	50	U	50
156-59-2	cis-1,2-Dichloroethene	50	U	50
156-60-5	trans-1,2-Dichloroethene	50	U	50
1634-04-4	Methyl tert-butyl ether	250	U	250
179601-23-1	m-Xylene & p-Xylene	100	U	100
541-73-1	1,3-Dichlorobenzene	50	U	50
56-23-5	Carbon tetrachloride	50	U	50
563-58-6	1,1-Dichloropropene	50	U	50

MT 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-01 DUP Lab Sample ID: 280-189130-17

Matrix: Water Lab File ID: X514926.D

Analysis Method: 8260D Date Collected: 03/21/2024 12:44

Sample wt/vol: 5(mL) Date Analyzed: 03/26/2024 15:27

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: RXI-624Sil MS ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 647102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	250	U	250	
594-20-7	2,2-Dichloropropane	50	U	50	
60-29-7	Ethyl ether	100	U	100	
630-20-6	1,1,1,2-Tetrachloroethane	50	U	50	
67-64-1	Acetone	750	U	750	
67-66-3	Chloroform	50	U	50	
71-43-2	Benzene	50	U	50	
71-55-6	1,1,1-Trichloroethane	50	U	50	
74-83-9	Bromomethane	250	U	250	
74-87-3	Chloromethane	100	U	100	
74-88-4	Iodomethane	250	U	250	
74-95-3	Dibromomethane	50	U	50	
74-97-5	Chlorobromomethane	50	J U3	50	CW
75-00-3	Chloroethane	200	U	200	
75-01-4	Vinyl chloride	100	U	100	
75-09-2	Methylene Chloride	100	U	100	
75-15-0	Carbon disulfide	100	U	100	
75-25-2	Bromoform	100	U	100	
75-27-4	Dichlorobromomethane	50	U	50	
75-34-3	1,1-Dichloroethane	50	U	50	
75-35-4	1,1-Dichloroethene	50	U	50	
75-69-4	Trichlorofluoromethane	100	U	100	
75-71-8	Dichlorodifluoromethane	150	J U3	150	CW
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	150	U	150	
78-87-5	1,2-Dichloropropane	50	U	50	
78-93-3	2-Butanone (MEK)	750	U	750	
79-00-5	1,1,2-Trichloroethane	50	U	50	
79-01-6	Trichloroethene	170		50	
79-20-9	Methyl acetate	250	U	250	
79-34-5	1,1,2,2-Tetrachloroethane	50	U	50	
87-61-6	1,2,3-Trichlorobenzene	100	U	100	
87-68-3	Hexachlorobutadiene	100	U	100	
91-20-3	Naphthalene	100	U	100	

MM 6/18/24

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-189130-1

SDG No.:

Client Sample ID: MPE-01 DUP Lab Sample ID: 280-189130-17

Matrix: Water Lab File ID: X514926.D

Analysis Method: 8260D Date Collected: 03/21/2024 12:44

Sample wt/vol: 5(mL) Date Analyzed: 03/26/2024 15:27

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: RXI-624SilMS ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 647102 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	50	U	50	
95-49-8	2-Chlorotoluene	50	U	50	
95-50-1	1,2-Dichlorobenzene	50	U	50	
95-63-6	1,2,4-Trimethylbenzene	50	U	50	
96-12-8	1,2-Dibromo-3-Chloropropane	250	U	250	
96-18-4	1,2,3-Trichloropropane	130	U	130	
97-63-2	Ethyl methacrylate	150	U	150	
98-06-6	tert-Butylbenzene	50	U	50	
98-82-8	Isopropylbenzene	50	U	50	
99-87-6	4-Isopropyltoluene	50	U	50	
1330-20-7	Xylenes, Total	50	U	50	
540-59-0	1,2-Dichloroethene, Total	50	U	50	
542-75-6	1,3-Dichloropropene, Total	100	U	100	
BTL00209	Trihalomethanes, Total	50	U	50	
BTL00431	Total BTEX	50	U	50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		70-127
1868-53-7	Dibromofluoromethane (Surr)	92		77-120
2037-26-5	Toluene-d8 (Surr)	95		80-125
460-00-4	4-Bromofluorobenzene (Surr)	91		78-120

MS 6/28/24

ENVIRONMENTAL
Data Services, Inc.

DATA VALIDATION SUMMARY REPORT
ABC CLEANERS, NORTH CAROLINA

Client: EA Engineering, Science & Technology, Inc., Hunt Valley, Maryland
SDG: 280-190470-1
Laboratory: Eurofins, Denver, Colorado
Site: ABC Cleaners, North Carolina
Date: June 18, 2024

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1*	MPE01-04222024	280-190470-1	Water
2	Trip Blank	280-190470-2	Water

*Stage 4 review

A Stage 2B/4 data validation was performed on the analytical data for one water samples and one aqueous trip blank sample collected on April 22, 2024 by EA Engineering at the ABC Cleaners site in North Carolina. The samples were analyzed under the Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions.

Specific method references are as follows:

Analysis	*Method References*
VOCs	SW846 Method 8260D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method, the Sampling and Analysis Plan and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," November 2020;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

Organics

- Holding times and sample preservation
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Target Compound Identification

- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no serious deficiencies of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Volatile Organic Compounds (VOC)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- All percent relative standard deviation (%RSD) and/or correlation coefficients and mean relative response factor (RRF) criteria were met.

Continuing Calibration

- All %D and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Trip Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R) except for the following.

Sample	Compound	%R	Qualifier
1	Dibromofluoromethane	125%	J - Positive Result

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples (LCS)

- The LCS samples exhibited acceptable percent recoveries (%R) except for the following.

LCS ID	Compound	LCS %R/LCSD %R/RPD	Qualifier	Affected Samples
280-651788/5	4 Compounds	OK/OK/High	None	For RPD alone

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- Sample 1 was analyzed at a 50X dilution due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 6/21/24

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Reason Code	Definition
HT	Holding Time
MB	Method Blank
SURR	Surrogate
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
CB/CCB	Calibration Blank or Continuing Calibration Blank
CCV	Calibration Verification
SD	ICP Serial Dilution
TB	Trip Blank
EB	Equipment Blank
FB	Field Blank
FD	Field Duplicate
CQ	Compound Quantitation
IS	Internal Standard

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190470-1

SDG No.:

Client Sample ID: MPE01-04222024 | Lab Sample ID: 280-190470-1

Matrix: Water | Lab File ID: G2_11547.D

Analysis Method: 8260D | Date Collected: 04/22/2024 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 05/02/2024 15:37

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 651788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	50	U	50
100-42-5	Styrene	50	U	50
10061-01-5	cis-1,3-Dichloropropene	100	U	100
10061-02-6	trans-1,3-Dichloropropene	100	U	100
103-65-1	N-Propylbenzene	50	U	50
104-51-8	n-Butylbenzene	50	U	50
106-43-4	4-Chlorotoluene	50	U	50
106-46-7	1,4-Dichlorobenzene	50	U	50
106-93-4	Ethylene Dibromide	50	U	50
107-05-1	3-Chloro-1-propene	100	U	100
107-06-2	1,2-Dichloroethane	50	U	50
107-13-1	Acrylonitrile	1000	U	1000
108-05-4	Vinyl acetate	150	U	150
108-10-1	4-Methyl-2-pentanone (MIBK)	250	U	250
108-67-8	1,3,5-Trimethylbenzene	50	U	50
108-86-1	Bromobenzene	50	U	50
108-87-2	Methylcyclohexane	50	U	50
108-88-3	Toluene	50	U	50
108-90-7	Chlorobenzene	50	U	50
109-99-9	Tetrahydrofuran	350	U	350
110-54-3	Hexane	100	U	100
110-82-7	Cyclohexane	50	U	50
120-82-1	1,2,4-Trichlorobenzene	50	U	50
124-48-1	Chlorodibromomethane	100	U	100
127-18-4	Tetrachloroethene	5500	3	50
135-98-8	sec-Butylbenzene	50	U	50
142-28-9	1,3-Dichloropropane	50	U	50
156-59-2	cis-1,2-Dichloroethene	50	U	50
156-60-5	trans-1,2-Dichloroethene	50	U	50
1634-04-4	Methyl tert-butyl ether	250	U	250
179601-23-1	m-Xylene & p-Xylene	100	U	100
541-73-1	1,3-Dichlorobenzene	50	U	50
56-23-5	Carbon tetrachloride	50	U	50
563-58-6	1,1-Dichloropropene	50	U	50

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190470-1

SDG No.:

Client Sample ID: MPE01-04222024 | Lab Sample ID: 280-190470-1

Matrix: Water | Lab File ID: G2_11547.D

Analysis Method: 8260D | Date Collected: 04/22/2024 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 05/02/2024 15:37

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 651788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
591-78-6	2-Hexanone	250	U	250
594-20-7	2,2-Dichloropropane	50	U	50
60-29-7	Ethyl ether	100	U	100
630-20-6	1,1,1,2-Tetrachloroethane	50	U	50
67-64-1	Acetone	750	U	750
67-66-3	Chloroform	50	U	50
71-43-2	Benzene	50	U	50
71-55-6	1,1,1-Trichloroethane	50	U	50
74-83-9	Bromomethane	250	U	250
74-87-3	Chloromethane	100	U	100
74-88-4	Iodomethane	250	U	250
74-95-3	Dibromomethane	50	U	50
74-97-5	Chlorobromomethane	50	U	50
75-00-3	Chloroethane	200	U	200
75-01-4	Vinyl chloride	100	U	100
75-09-2	Methylene Chloride	100	U	100
75-15-0	Carbon disulfide	100	U	100
75-25-2	Bromoform	100	U	100
75-27-4	Dichlorobromomethane	50	U	50
75-34-3	1,1-Dichloroethane	50	U	50
75-35-4	1,1-Dichloroethene	50	U	50
75-69-4	Trichlorofluoromethane	100	U	100
75-71-8	Dichlorodifluoromethane	150	U	150
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	150	U	150
78-87-5	1,2-Dichloropropane	50	U	50
78-93-3	2-Butanone (MEK)	750	U	750
79-00-5	1,1,2-Trichloroethane	50	U	50
79-01-6	Trichloroethene	50	U	50
79-20-9	Methyl acetate	250	U	250
79-34-5	1,1,2,2-Tetrachloroethane	50	U	50
87-61-6	1,2,3-Trichlorobenzene	100	U	100
87-68-3	Hexachlorobutadiene	100	U	100
91-20-3	Naphthalene	100	U	100

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-190470-1

SDG No.:

Client Sample ID: MPE01-04222024 | Lab Sample ID: 280-190470-1

Matrix: Water | Lab File ID: G2_11547.D

Analysis Method: 8260D | Date Collected: 04/22/2024 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 05/02/2024 15:37

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 651788 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	50	U	50
95-49-8	2-Chlorotoluene	50	U	50
95-50-1	1,2-Dichlorobenzene	50	U	50
95-63-6	1,2,4-Trimethylbenzene	50	U	50
96-12-8	1,2-Dibromo-3-Chloropropane	250	U	250
96-18-4	1,2,3-Trichloropropane	130	U	130
97-63-2	Ethyl methacrylate	150	U	150
98-06-6	tert-Butylbenzene	50	U	50
98-82-8	Isopropylbenzene	50	U	50
99-87-6	4-Isopropyltoluene	50	U	50
1330-20-7	Xylenes, Total	50	U	50
540-59-0	1,2-Dichloroethene, Total	50	U	50
542-75-6	1,3-Dichloropropene, Total	100	U	100
67L00209	Trihalomethanes, Total	50	U	50
67L00431	Total BTEX	50	U	50

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-121
1868-53-7	Dibromofluoromethane (Surr)	125		77-120
2037-26-5	Toluene-d8 (Surr)	99		80-125
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-190470-1
SDG No.:
Client Sample ID: Trip Blank Lab Sample ID: 280-190470-2
Matrix: Water Lab File ID: G2_11535.D
Analysis Method: 8260D Date Collected: 04/22/2024 10:05
Sample wt/vol: 5(mL) Date Analyzed: 05/02/2024 11:29
Soil Aliquot Vol: Dilution Factor: 1
Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: Level: (low/med) Low
Analysis Batch No.: 651788 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	1.0	U	1.0
100-42-5	Styrene	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0
103-65-1	N-Propylbenzene	1.0	U	1.0
104-51-8	n-Butylbenzene	1.0	U	1.0
106-43-4	4-Chlorotoluene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
106-93-4	Ethylene Dibromide	1.0	U	1.0
107-05-1	3-Chloro-1-propene	2.0	U	2.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
107-13-1	Acrylonitrile	20	U	
108-05-4	Vinyl acetate	3.0	U	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0
108-86-1	Bromobenzene	1.0	U	1.0
108-87-2	Methylcyclohexane	1.0	U	1.0
108-88-3	Toluene	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
109-99-9	Tetrahydrofuran	7.0	U	7.0
110-54-3	Hexane	2.0	U	2.0
110-82-7	Cyclohexane	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
124-48-1	Chlorodibromomethane	2.0	U	2.0
127-18-4	Tetrachloroethene	1.0	U	1.0
135-98-8	sec-Butylbenzene	1.0	U	1.0
142-28-9	1,3-Dichloropropane	1.0	U	1.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
563-58-6	1,1-Dichloropropene	1.0	U	1.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-190470-1

SDG No.:

Client Sample ID: Trip Blank Lab Sample ID: 280-190470-2

Matrix: Water Lab File ID: G2_11535.D

Analysis Method: 8260D Date Collected: 04/22/2024 10:05

Sample wt/vol: 5(mL) Date Analyzed: 05/02/2024 11:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 651788 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
591-78-6	2-Hexanone	5.0	U	5.0	
594-20-7	2,2-Dichloropropane	1.0	U	1.0	
60-29-7	Ethyl ether	2.0	U	2.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	
67-64-1	Acetone	15	U	15	
67-66-3	Chloroform	1.0	U	1.0	
71-43-2	Benzene	1.0	U	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
74-83-9	Bromomethane	5.0	U	5.0	
74-87-3	Chloromethane	2.0	U	2.0	
74-88-4	Iodomethane	5.0	U	5.0	
74-95-3	Dibromomethane	1.0	U	1.0	
74-97-5	Chlorobromomethane	1.0	U	1.0	
75-00-3	Chloroethane	4.0	U	4.0	
75-01-4	Vinyl chloride	2.0	U	2.0	
75-09-2	Methylene Chloride	2.0	U	2.0	
75-15-0	Carbon disulfide	2.0	U	2.0	
75-25-2	Bromoform	2.0	U	2.0	
75-27-4	Dichlorobromomethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
75-69-4	Trichlorofluoromethane	2.0	U	2.0	
75-71-8	Dichlorodifluoromethane	3.0	U	3.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	3.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
78-93-3	2-Butanone (MEK)	15	U	15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
79-01-6	Trichloroethene	1.0	U	1.0	
79-20-9	Methyl acetate	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
87-61-6	1,2,3-Trichlorobenzene	2.0	U	2.0	
87-68-3	Hexachlorobutadiene	2.0	U	2.0	
91-20-3	Naphthalene	2.0	U	2.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-190470-1
SDG No.:
Client Sample ID: Trip Blank Lab Sample ID: 280-190470-2
Matrix: Water Lab File ID: G2_11535.D
Analysis Method: 8260D Date Collected: 04/22/2024 10:05
Sample wt/vol: 5(mL) Date Analyzed: 05/02/2024 11:29
Soil Aliquot Vol: Dilution Factor: 1
Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)
Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH: 5.0
% Moisture: % Solids: Level: (low/med) Low
Analysis Batch No.: 651788 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-47-6	o-Xylene	1.0	U	1.0
95-49-8	2-Chlorotoluene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0
96-18-4	1,2,3-Trichloropropane	2.5	U	2.5
97-63-2	Ethyl methacrylate	3.0	U	3.0
98-06-6	tert-Butylbenzene	1.0	U	1.0
98-82-8	Isopropylbenzene	1.0	U	1.0
99-87-6	4-Isopropyltoluene	1.0	U	1.0
1330-20-7	Xylenes, Total	1.0	U	1.0
540-59-0	1,2-Dichloroethene, Total	1.0	U	1.0
542-75-6	1,3-Dichloropropene, Total	2.0	U	2.0
SIL00209	Trihalomethanes, Total	1.0	U	1.0
SIL00431	Total BTEX	1.0	U	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-127
1868-53-7	Dibromofluoromethane (Surr)	99		77-120
2037-26-5	Toluene-d8 (Surr)	96		80-125
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120

MT 6/18/24

Appendix G

Well Abandonment Records

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WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

Kelly Grant
Well Contractor Name (or well owner personally abandoning well on his/her property)

2730A
NC Well Contractor Certification Number

Cascade Drilling
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☒Other (explain under 7g) Borehole

4. Date well(s) abandoned: 01/18/23

5a. Well location:

ABC One Hour Superfund site
Facility/Owner Name — Facility ID# (if applicable)

2187 Lejeune Blvd, Jacksonville, NC 28546
Physical Address, City, and Zip

_____ — _____
County — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED
Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: DPT 1002

6b. Total well depth: 80' (ft.)

6c. Borehole diameter: 6" (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☒Neat Cement Grout	☒Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Neat Cement 110 Gallons
Chips 1 Bag

7g. Provide a brief description of the abandonment procedure:

Trimmie Bottom Up
Top off as pull Casing
Pellets to top off Hole.
* Bore hole - NO well

8. Certification:

_____ — 01/18/23
Signature of Certified Well Contractor or Well Owner — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

Kelly Grant
Well Contractor Name (or well owner personally abandoning well on his/her property)

2730 A
NC Well Contractor Certification Number

Cascade Drilling
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐ Agricultural	☐ Municipal/Public
☐ Geothermal (Heating/Cooling Supply)	☐ Residential Water Supply (single)
☐ Industrial/Commercial	☐ Residential Water Supply (shared)
☐ Irrigation	

Non-Water Supply Well:

☐ Monitoring	☐ Recovery

Injection Well:

☐ Aquifer Recharge	☐ Groundwater Remediation
☐ Aquifer Storage and Recovery	☐ Salinity Barrier
☐ Aquifer Test	☐ Stormwater Drainage
☐ Experimental Technology	☐ Subsidence Control
☐ Geothermal (Closed Loop)	☐ Tracer
☐ Geothermal (Heating/Cooling Return)	☒ Other (explain under 7g)

Sorehole

4. Date well(s) abandoned: 01/19/23

5a. Well location:

*BC One Hour Superfund Site
Facility/Owner Name

Facility ID# (if applicable)

2127 E Jane Blvd, Jacksonville, NC 28546
Physical Address, City, and Zip

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED
Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: DPT 1003

6b. Total well depth: 30 (ft.)

6c. Borehole diameter: 6" (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☒ Neat Cement Grout	☒ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Neat Cement 110 Gallons
Chips 1 Bag

7g. Provide a brief description of the abandonment procedure:

Trimmie Bottom Up
Top off as pull Casing
Pellets to top off Hole.
* Bore hole - NO well

8. Certification:

_____ 01/19/23
Signature of Certified Well Contractor or Well Owner — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

Kelly Grant
Well Contractor Name (or well owner personally abandoning well on his/her property)

2730A
NC Well Contractor Certification Number

Cascade Drilling
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐ Agricultural	☐ Municipal/Public
☐ Geothermal (Heating/Cooling Supply)	☐ Residential Water Supply (single)
☐ Industrial/Commercial	☐ Residential Water Supply (shared)
☐ Irrigation	

Non-Water Supply Well:

☐ Monitoring	☐ Recovery

Injection Well:

☐ Aquifer Recharge	☐ Groundwater Remediation
☐ Aquifer Storage and Recovery	☐ Salinity Barrier
☐ Aquifer Test	☐ Stormwater Drainage
☐ Experimental Technology	☐ Subsidence Control
☐ Geothermal (Closed Loop)	☐ Tracer
☐ Geothermal (Heating/Cooling Return)	☒ Other (explain under 7g) Borehole

4. Date well(s) abandoned: 01/19/23

5a. Well location:

ABC One Hour Superfund Site
Facility/Owner Name

Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville, NC 28546
Physical Address, City, and Zip

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED
Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: DPT 1004

6b. Total well depth: 20' (ft.)

6c. Borehole diameter: 6" (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☒ Neat Cement Grout	☒ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Neat Cement 110 Gallons
Chips 1 Bag

7g. Provide a brief description of the abandonment procedure:

Trimmie Bottom Up
Top off as pull Casing
Pellets to top off Hole
* Bore hole - NO well

8. Certification:

_____ 01/19/23
Signature of Certified Well Contractor or Well Owner — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

Kelly Grant
Well Contractor Name (or well owner personally abandoning well on his/her property)

2730 A
NC Well Contractor Certification Number (if)

Cascade Drilling
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☒Other (explain under 7g)

Isorehole

4. Date well(s) abandoned: 01/23/23

5a. Well location:

ABC one Hour Superfund Site
Facility/Owner Name

Facility ID# (if applicable)

2127 Lejune Blvd, Jacksonville, NC 28546
Physical Address, City, and Zip

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED
Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: AB-555

6b. Total well depth: 80' (ft.)

6c. Borehole diameter: 6" (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☒ Neat Cement Grout	☒ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Neat Cement 110 Gallons
Chips 1 Bag

7g. Provide a brief description of the abandonment procedure:

Trimmie Bottom Up
Top off as pull Casing
Pellets to top off Hole
A Bore hole - NO well

8. Certification:

Signature of Certified Well Contractor or Well Owner

01/23/23
Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

Kelly Grant
Well Contractor Name (or well owner personally abandoning well on his/her property)

27304
NC Well Contractor Certification Number

Cascade Drilling
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☒Other (explain under 7g) Borehole

4. Date well(s) abandoned: 01/24/23

5a. Well location:

ABC one - Superfund Site
Facility/Owner Name

Facility ID# (if applicable)

2127 Lejune Blvd, Jacksonville, NC 28546
Physical Address, City, and Zip

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED
Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: AB-N55

6b. Total well depth: 30 (ft.)

6c. Borehole diameter: 6" (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☒ Neat Cement Grout	☒ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Neat Cement 110 Gallons
Chips 1 Bag

7g. Provide a brief description of the abandonment procedure:

Trimmie Bottom Up
Top off as pull Casing
Pellets to top off Hole
* Bore hole - NO well

8. Certification:

Signature of Certified Well Contractor or Well Owner

01/24/23
Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

Kelly Grant
Well Contractor Name (or well owner personally abandoning well on his/her property)

27309
NC Well Contractor Certification Number

Cascade Drilling
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☐ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☒ Other (explain under 7g) Borehole

4. Date well(s) abandoned: 01/24/23

5a. Well location:

ABC One Hour Superfund Site
Facility/Owner Name

Facility ID# (if applicable)

1127 Lejune Blvd, Jacksonville, NC 28546
Physical Address, City, and Zip

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED
Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: AB-S2

6b. Total well depth: ~~Bore~~ 70' (ft.)

6c. Borehole diameter: 6" (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):
- ☒ Neat Cement Grout
- ☒ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Neat Cement 110 Gallons
Chips 1 Bag

7g. Provide a brief description of the abandonment procedure:

Trimmie Bottom Up
Top off as pull Casing
Pellets to top off Hole
* Bore hole - NO well

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 01/24/23

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

Kelly Grant
Well Contractor Name (or well owner personally abandoning well on his/her property)

27301
NC Well Contractor Certification Number

Cascade Drilling
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☒Other (explain under 7g) Borehole

4. Date well(s) abandoned: 01/24/23

5a. Well location:

Abc One Hour Superfund Site
Facility/Owner Name

Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville, NC 28546
Physical Address, City, and Zip

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED
Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MB-N22

6b. Total well depth: ~~200'~~ 70' **(ft.)**

6c. Borehole diameter: 6" **(in.)**

6d. Water level below ground surface: _____ **(ft.)**

6e. Outer casing length (if known): _____ **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): _____ **(ft.)**

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☒ Neat Cement Grout	☒ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Neat Cement 110 Gallons
Chips 1 Bag

7g. Provide a brief description of the abandonment procedure:

Trimmie Bottom Up
Top off as pull Casing
Pellets to top off Hole
* Bore hole - NO well

8. Certification:

_____ _____ 01/24/23
Signature of Certified Well Contractor or Well Owner — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

KELLY GRANT JR

Well Contractor Name (or well owner personally abandoning well on his/her property)

2730M

NC Well Contractor Certification Number

Cascade Drilling LP

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 1/18/23

5a. Well location:

EPA Superfund Site

Facility/Owner Name

Facility ID# (if applicable)

2127 Lejeune Blvd Jacksonville NC

Physical Address, City, and Zip

Jacksonville

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(If well field, one lat/long is sufficient)

34.7414896 N -77.3664955 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HPT1001

6b. Total well depth: 80.75 (ft.)

6c. Borehole diameter: 2 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☑ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

_____ _____

_____ _____

7g. Provide a brief description of the abandonment procedure:

_____

_____

_____

_____

8. Certification:

_____ 1-20-23

Signature of Certified Well Contractor or Well Owner — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

KEITH GRANT JR
Well Contractor Name (or well owner personally abandoning well on his/her property)

2730A
NC Well Contractor Certification Number

cascade drilling LP
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 1/18/23

5a. Well location:

EPA SuperFund Site
Facility/Owner Name

Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC
Physical Address, City, and Zip

Jacksonville
County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(If well field, one lat/long is sufficient)

34.7414874 N -77.3664428 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED
Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HPT1002

6b. Total well depth: 69.75 (ft.)

6c. Borehole diameter: 2 (in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☑ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

_____ _____

_____ _____

7g. Provide a brief description of the abandonment procedure:

_____

_____

_____

_____

8. Certification:

_____ 1-20-23
Signature of Certified Well Contractor or Well Owner — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

KELLY GRANT JR.
Well Contractor Name (or well owner personally abandoning well on his/her property)

2730A
NC Well Contractor Certification Number

Cascade Drilling LP
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 1/19/23

5a. Well location:

EPA Superfund site
Facility/Owner Name

Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC
Physical Address, City, and Zip

Jacksonville
County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(If well field, one lat/long is sufficient)

34.7414687 N -77.3663855 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED
Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HPT1003, HPT1003A, HPT1003B

6b. Total well depth: 45 (ft.)

6c. Borehole diameter: 2 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: 3

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☑ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

_____ _____

_____ _____

7g. Provide a brief description of the abandonment procedure:

_____

_____

_____

_____

8. Certification:

_____ 1-20-23
Signature of Certified Well Contractor or Well Owner — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

Kelly Grant
Well Contractor Name (or well owner personally abandoning well on his/her property)

2730 A
NC Well Contractor Certification Number

Cascade Drilling
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐ Agricultural	☐ Municipal/Public
☐ Geothermal (Heating/Cooling Supply)	☐ Residential Water Supply (single)
☐ Industrial/Commercial	☐ Residential Water Supply (shared)
☐ Irrigation	
Non-Water Supply Well:	
☐ Monitoring	☐ Recovery
Injection Well:	
☐ Aquifer Recharge	☐ Groundwater Remediation
☐ Aquifer Storage and Recovery	☐ Salinity Barrier
☐ Aquifer Test	☐ Stormwater Drainage
☐ Experimental Technology	☐ Subsidence Control
☐ Geothermal (Closed Loop)	☐ Tracer
☐ Geothermal (Heating/Cooling Return)	☒ Other (explain under 7g) Borehole

4. Date well(s) abandoned: 01/18/23

5a. Well location:

ABC, One Hour Superfund Site
Facility/Owner Name

Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville, NC, 28546
Physical Address, City, and Zip

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED
Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: DPT 1001

6b. Total well depth: 80' (ft.)

6c. Borehole diameter: 6" (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☒ Neat Cement Grout	☒ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Neat Cement 110 Gallons
Chips 1 Bag

7g. Provide a brief description of the abandonment procedure:

Trimmie Bottom Up
Top off as pull Casing
Pellets to top off Hole
* Bore hole - NO well

8. Certification:

_____ 01/18/23
Signature of Certified Well Contractor or Well Owner — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: T-4

6b. Total well depth: 41'+5' (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 4 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Temperature and Pressure Monitoring Point Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: T-4

Date: 4-8-23

Oversight: Re Ramos

Driller: Kelly

Job # R23-104

	Design	Constructed (fill out if different)	Notes
Stick Up (TMP)	30"		
Stick Up (PMP)	24"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of PMP Screen	3'		
Bags of #00 Sand	2.5		
Bottom of PMP Screen	5'		
Bottom of #00 Sand	7'		
Bags of Cement	10.5		
Bags of Silica	3.25		
Borehole Diameter	6"		
Bottom of TMP Well	41'		
Bottom of Borehole	41'		

Pipe Diameter TMP: 1.5"
PMP: 1"
Borehole Diameter: 6"

Ground Surface 0.0'

HT Grout

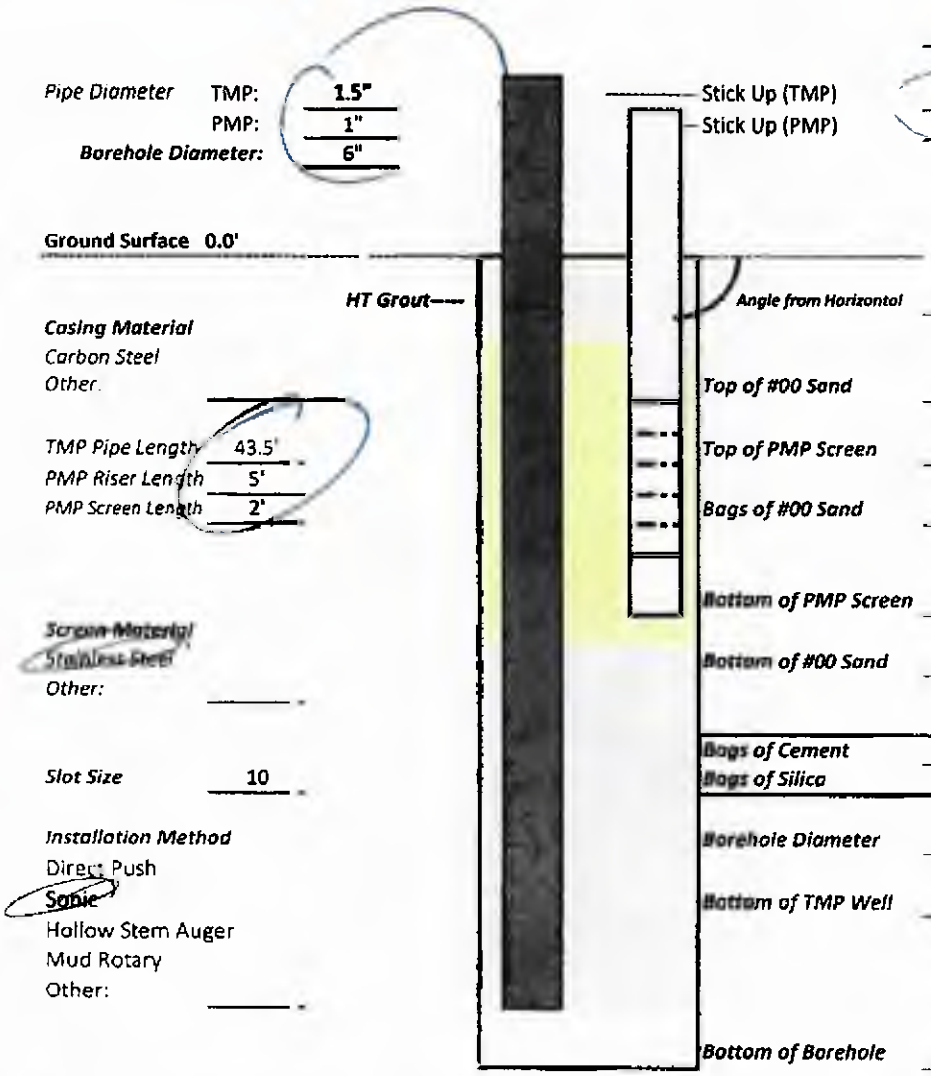
Casing Material
Carbon Steel
Other:

TMP Pipe Length 43.5'
PMP Riser Length 5'
PMP Screen Length 2'

~~Screen Material~~
~~Stainless Steel~~
Other:

Slot Size 10

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of TMP [ft bTOC]:	43.5'	
Depth to bottom of PMP [ft bTOC]:	7'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP [ft bgs]	Depth to Grout, PMP [ft bgs]

PID Log: Make/Model:

Time: 1:40	Reading: 0.2	PPM
Time: 14:35	Reading: 0.1	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-21

6b. Total well depth: 57' + 52' (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-21
Oversight: R. Ramos
Driller: Kelly Grant

Date: 09-09-23
Job #: R23-104

1/2" Thermocouple pipe? Yes
Thermocouple Length: 58.67'

Ground Surface 0.0'

Heater Can
Schedule 80

Heater Can Length: 59.5'
Heater Can Diameter: 3'

SIW
Riser Length: 51.5 ft
Screen Length: 2 ft
Screen Material
Stainless Steel
Fiberglass
Other:

SIW Slot Size: 10
Screen Diameter: 1"

Installation Method
Sonic
Direct Push
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick Up Height	30"		
SIW Stick Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Gal Buckets of Graphite	2.25		
Bags of Silica	3		
Bags of Cement	10		
Top of #00 Sand	30'		
Bags of Sand	7.5		
Gallons of Limestone	7.5		
Top of Screen	50'		
Bottom of Screen	52'		
Bottom of #00 Sand	54'		
Bottom of Borehole	57'		

Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]:	59.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 08:55	Reading: 0.0	PPM
Time: 10:00	Reading: 0.0	PPM
Time: 11:05	Reading: 0.0	PPM
Time: 13:30	Reading: 0.0	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: T-7

6b. Total well depth: 51' + 5' (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement - 6 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Temperature and Pressure Monitoring Point Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: T-7

Date: 09-10-23

Oversight: R. RAMOS.

Driller: Kelly GRANT

Job # R23-104

	Design	Constructed (fill out if different)	Notes
Stick Up (TMP)	30"		
Stick Up (PMP)	24"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of PMP Screen	3'		
Bags of #00 Sand	2.5		
Bottom of PMP Screen	5'		
Bottom of #00 Sand	7'		
Bags of Cement	13.5		
Bags of Silica	4.25		
Borehole Diameter	6"		
Bottom of TMP Well	51'		
Bottom of Borehole	51'		

Pipe Diameter TMP: 1.5"
PMP: 1"
Borehole Diameter: 6"

Ground Surface 0.0'

HT Grout

Casing Material
Carbon Steel
Other:

TMP Pipe Length 53.5'
PMP Riser Length 5'
PMP Screen Length 2'

Screen Material
Stainless Steel
Other:

Slot Size 10

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of TMP [ft bTOC]:	53.5'	
Depth to bottom of PMP [ft bTOC]:	7'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP [ft bgs]	Depth to Grout, PMP [ft bgs]

PID Log: Make/Model:

Time: 08:30	Reading: 0.0	PPM
Time: 10:34	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-31

6b. Total well depth: 57 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 23 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* See attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-31
Oversight: R. Ramos
Driller: Kelly Grant

Date: 09-10-23
Job #: R23-104

	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	3		
Bags of Silica	4		
Bags of Cement	13		
Bottom of Heater Can	57'		
Bottom of Borehole	57'		

1/2" Thermocouple pipe? Yes
Thermocouple Length: 58.67'

Ground Surface: 0.0'

Heater Can: Schedule 40

Conductive HT Grout

Heater Can Length: 59 ft

Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	59'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 10:10	Reading: 0.0	PPM
Time: 15:00	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-14

6b. Total well depth: 52 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 39 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #. 0
Release date: 5/12/23
Approved by: SL

Well ID: **M-14**
Oversight: J. Baugh
Driller: K. Grant
Date: 9-25-23
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

Ground Surface 0.0'

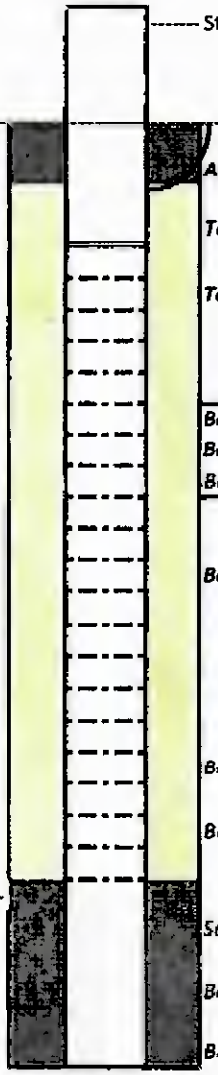
Casing Material
Carbon Steel
Other:

Riser Length: 6 ft 6
Screen Length: 47 ft 50

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size: 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	36"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	30.75		
Bags of Cement	1.25		
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	50'		
Bottom of Screen	50'		
Sump Length	2'		
Bottom of Sump	52'		
Bottom of Borehole	52'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 55' — Constructed: _____
Depth to bottom of well [ft bTOC]:
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 9:30	Reading: 0.1	PPM
Time: 10:30	Reading: 0.2	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-30

6b. Total well depth: 57 + 13 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ■ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 23 5-gallon bags

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-30
Oversight: J. Baugh
Driller: K. Grant

Date: 9-25-23
Job #: R23-104

1/2" Thermocouple pipe? Yes
Thermocouple Length: 58.67'

Heater Can
Schedule 80

Heater Can Length: 59.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 1 in

Installation Method
- Direct Push
- Sonic
- Hollow Stem Auger
- Mud Rotary
- Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"		
VEW Stick-Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	13'		
Bags of #00 Sand	18.5		
Gallons of Limestone	18.5		
Bottom of #00 Sand	50'		
Bottom of Heater Can	57'		
Bottom of Borehole	57'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	59.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 2:30	Reading: 0.1	PPM	9-25-23
Time: 3:20	Reading: 0.2	PPM	
Time:	Reading:	PPM	
Time: 9:00	Reading: 0.1	PPM	9-26-23
Time: 9:50	Reading: 0.0	PPM	

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-13

6b. Total well depth: 22 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 19 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* See attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Multi-Phase Extraction Well
Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **M-13**
Date: 9-26-23
Oversight: J. Baugh
Driller: Kelly Drilling
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

Ground Surface 0.0'

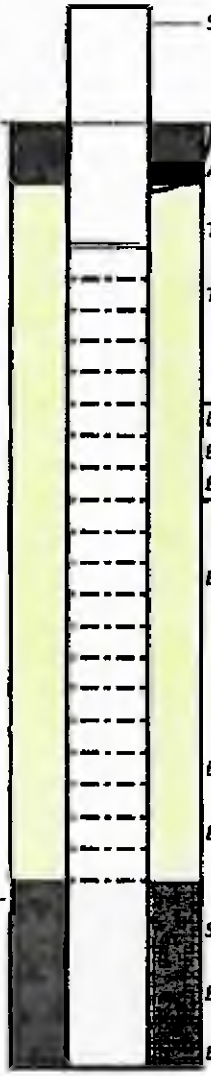
Casing Material
Carbon Steel
Other: _____

Riser Length 6 *ft*
Screen Length 17 *ft*

Screen Material
Stainless Steel
Fiberglass
PVC
Other: _____

Slot Size 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other: _____



	Design	Constructed (fill out if different)	Notes
Stick Up Height	36"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3		
Bags of #00 Sand	12		
Bags of Cement	1.25		
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	20		
Bottom of Screen	20'		
Sump Length	2		
Bottom of Sump	22'		
Bottom of Borehole	22'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]:	25'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	1135	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-46

6b. Total well depth: 57 + 52 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ■ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* See attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-46
Date: 9-26-23
Oversight: J. Baugh
Job #: R23-104
Driller: Kelly Grant

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?				
Thermocouple Length	58.67'			
Heater Stick Up Height		30"		
SIW Stick Up Height		18"		
Ground Surface 0.0'				
Conductive HT Grout				
Heater Can				
Schedule 80				
Heater Can Length	59.5'			
Heater Can Diameter	3'			
Angle from Horizontal		90°		
Borehole Diameter		7"		
5 Gal Buckets of Graphite		2.25		
SIW				
Riser Length	51.5 ft			
Screen Length	2 ft			
Bags of Silica		3		
Bags of Cement		10		
Screen Material				
Stainless Steel				
Fiberglass				
Other:				
Top of #00 Sand		30'		
SIW Slot Size	10			
Screen Diameter	1"			
Bags of Sand		7.5		
Gallons of Limestone		7.5		
Installation Method				
Sonic				
Direct Push				
Hollow Stem Auger				
Mud Rotary				
Other:				
Top of Screen		50'		
Bottom of Screen		52'		
Bottom of #00 Sand		54'		
Conductive High Temp Grout				
Bottom of Borehole		57'		



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC):	59.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

Repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 3:45	Reading: 0.1	PPM
Time: 8:15	Reading: 0.2	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

9-26
9-27

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-23

6b. Total well depth: 57 +52 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-23
Date: 9-27-23
Oversight: J. Baugh
Job #: R23-104
Driller: K. Grant

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	Yes			
Thermocouple Length	58.67'			
Heater Stick Up Height		30"		
SIW Stick Up Height		18"		
Ground Surface 0.0'				
Conductive HT Grout		Angle from Horizontal 90°		
Heater Can				
Schedule 80				
Heater Can Length	59.5'	Borehole Diameter 7"		
Heater Can Diameter	3'			
		Gal Buckets of Graphite 2.25		
SIW				
Riser Length	51.5 ft	Bags of Silica 3		
Screen Length	2 ft	Bags of Cement 10		
Screen Material				
Stainless Steel		Top of #00 Sand 30'		
Fiberglass				
Other:				
		Bags of Sand 7.5		
SIW Slot Size	10	Gallons of Limestone 7.5		
Screen Diameter	1"			
Installation Method		Top of Screen 50'		
Sonic				
Direct Push				
Hollow Stem Auger		Bottom of Screen 52		
Mud Rotary				
Other:				
		Bottom of #00 Sand 54'		
Conductive High Temp Grout				
		Bottom of Borehole 57'		



Post-Installation QC (to be performed 24hrs after installation)

1) **Confirm well is free of grout** — Design: 59.5' — Constructed: ____
Depth to bottom of well (ft bTOC):
If greater than or equal to 1ft less than designed alert the office

2) **Confirm grout plug reaches ground surface**
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 9:35	Reading: 0.1	PPM
Time: 9:55	Reading: 0.0	PPM
Time:	Reading:	PPM
Time: 9:20	Reading: 0.2	PPM
Time: 10:15	Reading: 0.0	PPM

Notes:
11:00 0.1

9-28-2

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-24

6b. Total well depth: 57+52 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 24 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-1-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-24

Date: 9-28-23

Oversight:

Job #: R23-104

Driller:

	Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	No		
Thermocouple Length	58.67'		
Heater Stick Up Height	30"		
SIW Stick Up Height	18"		
Ground Surface 0.0'			
Conductive HT Grout			
Heater Can			
Schedule 80			
Heater Can Length	59.5'		
Heater Can Diameter	3'		
SIW			
Riser Length	51.5 ft		
Screen Length	2 ft		
Screen Material			
Stainless Steel			
Fiberglass			
Other:			
SIW Slot Size	10		
Screen Diameter	1"		
Installation Method			
Sonic			
Direct Push			
Hollow Stem Auger			
Mud Rotary			
Other:			
Angle from Horizontal	90°		
Borehole Diameter	7"		
5 Gal Buckets of Graphite	2.25		
Bags of Silica	3		
Bags of Cement	10		
Top of #00 Sand	30'		
Bags of Sand	7.5		
Gallons of Limestone	7.5		
Top of Screen	50'		
Bottom of Screen	52'		
Bottom of #00 Sand	54'		
Conductive High Temp Grout			
Bottom of Borehole	57'		



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC):	59.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 1:15	Reading: 0.1	PPM
Time: 3:00	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-29

6b. Total well depth: 47 + 13 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ■ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 19 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* See attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-29
Oversight: J. Baus
Driller: Kelly Grout

Date: 9-29-23
Job #: R23-104

1/2" Thermocouple pipe? No
Thermocouple Length: 48.67'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 49.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"		
VEW Stick-Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	13'		
Bags of #00 Sand	14.5		
Gallons of Limestone	14.5		
Bottom of #00 Sand	40'		
Bottom of Heater Can	47'		
Bottom of Borehole	47'		

Post-Installation QC (to be performed 24hrs after Installation)

1) Confirm well is free of grout

Depth to bottom of well [ft bTOC	Design: 49.5'	Constructed:

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	9:20	Reading:	0.3 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-48

6b. Total well depth: 26 + 13 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 19 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

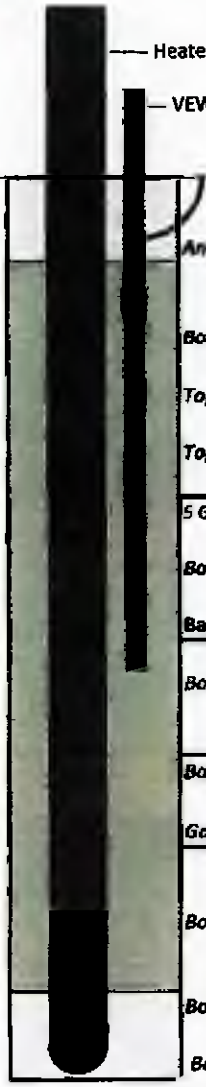
Well ID: H-48
Oversight: J Bang
Driller: K. Grant
Date: 10-2-23
Job #: R23-104

1/2" Thermocouple pipe? No
Thermocouple Length: 27.67'

Heater Can Length: 28.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"		
VEW Stick-Up Height	18"		
Ground Surface	0.0'		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.25		
Bottom of Screen	13'		
Bags of #00 Sand	6.5		
Gallons of Limestone	6.5		
Bottom of #00 Sand	20'		
Bottom of Heater Can	26'		
Bottom of Borehole	26'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC]	28.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	9:00	Reading:	0.1 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: T-8

6b. Total well depth: 21' + 5' (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 2.5 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Temperature and Pressure Monitoring Point Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **T-8**

Date: 10-2-23

Oversight: J. Baugh

Driller: K. Gantt

Job # R23-104

Pipe Diameter TMP: 1.5"
PMP: 1"
Borehole Diameter: 6"

Ground Surface 0.0'

HT Grout

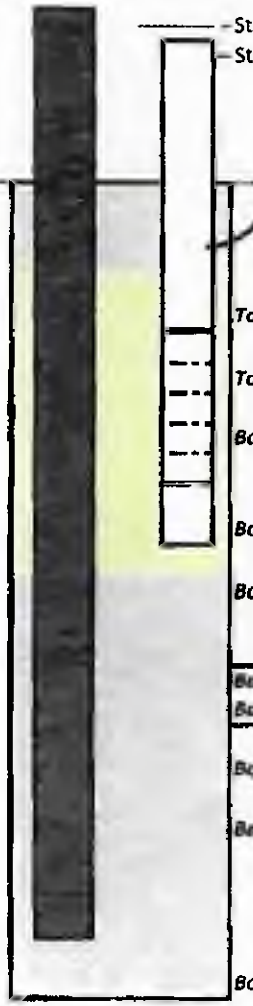
Casing Material
Carbon Steel
Other:

TMP Pipe Length 23.5'
PMP Riser Length 5'
PMP Screen Length 2'

Screen Material
Stainless Steel
Other:

Slot Size 10

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up (TMP)	30"		
Stick Up (PMP)	24"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of PMP Screen	3'		
Bags of #00 Sand	2.5		
Bottom of PMP Screen	5'		
Bottom of #00 Sand	7'		
Bags of Cement	4.75		
Bags of Silica	1.5		
Borehole Diameter	6"		
Bottom of TMP Well	21'		
Bottom of Borehole	21'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of TMP [ft bTOC]:	23.5'	
Depth to bottom of PMP [ft bTOC]:	7'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP [ft bgs]	Depth to Grout, PMP [ft bgs]

PID Log: Make/Model:

Time: 10:00	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H25

6b. Total well depth: 26 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement _____

_____ _____

7g. Provide a brief description of the abandonment procedure:

Treime grout 11 gallons

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-25
Oversight: J. Baugh
Driller: K. Grant

Date: 10-2-23
Job #: R23 104

	Design	Constructed (fill out if different)	Notes
--Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.25		
Bags of Silica	1.75		
Bags of Cement	6		
Bottom of Heater Can	26		
Bottom of Borehole	26'		

1/2" Thermocouple pipe? No
Thermocouple Length 27.67'

Ground Surface 0.0'

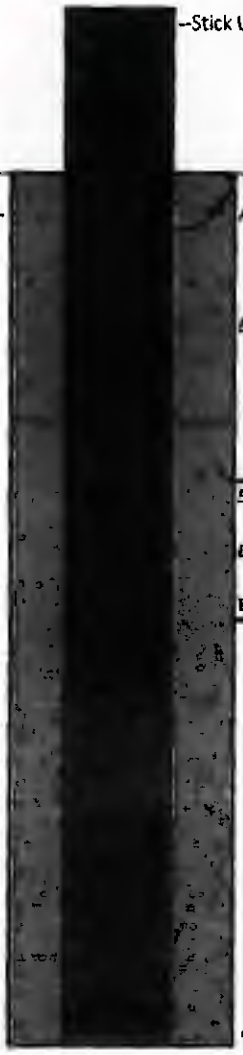
Heater Can
Schedule 40

Conductive HT Grout

Heater Can Length 28 ft

Heater Can Diameter 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout Design: 28' Constructed:
Depth to bottom of well (ft bTOC
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	11:40	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	●Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-38

6b. Total well depth: 26 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 11 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-28
Oversight: J. Baugh
Driller: K. Graft

Date: 10-2-23
Job #: R23-104

1/2" Thermocouple pipe? Yes
Thermocouple Length: 27.67'

Ground Surface 0.0'

Heater Can
Schedule 40

Conductive HT Grout

Heater Can Length: 28 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.25		
Bags of Silica	1.75		
Bags of Cement	6		
Bottom of Heater Can	28'		
Bottom of Borehole	28'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 28' — Constructed: ____

Depth to bottom of well [ft bTOC]

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	15:10	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ● Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-34

6b. Total well depth: 57' + 52' (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ● Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 24 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* See attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-34
Oversight: J. Bauch
Driller: Kelly Grant

Date: 8-29-23
Job #: R23-104

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	No			
Thermocouple Length	58.67'			
Heater Stick Up Height		30"		
SIW Stick Up Height		18"		
Ground Surface 0.0'				
Angle from Horizontal		90°		
Heater Can				
Schedule 80				
Heater Can Length	59.5'			
Heater Can Diameter	3'			
Borehole Diameter		7"		
5 Gal Buckets of Graphite		2	1/2	
Bags of Silica		1	1	
Bags of Cement		1	3	
SIW				
Riser Length	51.5 ft			
Screen Length	2 ft			
Screen Material				
Stainless Steel				
Fiberglass				
Other:				
Top of #00 Sand		30'		
SIW Slot Size	10			
Screen Diameter	1"			
Bags of Sand		7.5	4	
Gallons of Limestone		7.5		
Installation Method				
Sonic				
Direct Push				
Hollow Stem Auger				
Mud Rotary				
Other:				
Top of Screen		50'		
Bottom of Screen		52'		
Bottom of #00 Sand		54'		
Bottom of Borehole		57'		

Conductive HT Grout

Conductive High Temp Grout

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well (ft bTOC):	59.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 11:30	Reading: 0.0	PPM
Time:	Reading:	PPM
Time: 7:30	Reading: 0.0	PPM
Time: 7:38	Reading: 8.1	PPM

8-29
8-30-0

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-22

6b. Total well depth: 73+68 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 31 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* See attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-22
Date: 09-24-23
Oversight: Devan Phillips
Job #: R23-104
Driller: Kelly Grant

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	[redacted]			
Thermocouple Length	74.67'			
Heater Stick Up Height		30"		
SIW Stick Up Height		18"		
Ground Surface 0.0'				
Conductive HT Grout				
Angle from Horizontal		90°		
Heater Can: Schedule 80				
Heater Can Length	75.5'			
Heater Can Diameter	3'			
Borehole Diameter		7"		
5 Gal Buckets of Graphite		2.25	1	
SIW				
Riser Length	67.5 ft			
Bags of Silica		3	2	
Screen Length	2 ft			
Bags of Cement		10	5	
Screen Material: Stainless Steel / Fiberglass / Other:				
Top of #00 Sand		30'		
SIW Slot Size	10			
Bags of Sand		12.5		
Screen Diameter	1"			
Gallons of Limestone		12.5		
Installation Method: Sonic / Direct Push / Hollow Stem Auger / Mud Rotary / Other:				
Top of Screen		66'		
Bottom of Screen		68'		
Bottom of #00 Sand		70'		
Conductive High Temp Grout				
Bottom of Borehole		73'		



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 75.5' — Constructed: ____
Depth to bottom of well (ft bTOC):
If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 10:30	Reading: 0.0	PPM
Time: 11:20	Reading: 0.0	PPM
Time: 12:20	Reading: 0.0	PPM
Time: Tod 1:00	Reading: 0.0	PPM
Time: 15:20	Reading: 0.5	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: T-6

6b. Total well depth: 31' + 5' (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 3.5 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRA-PRV

Temperature and Pressure Monitoring Point Construction Detail

Well ID: T-6

Oversight: J. Baugh

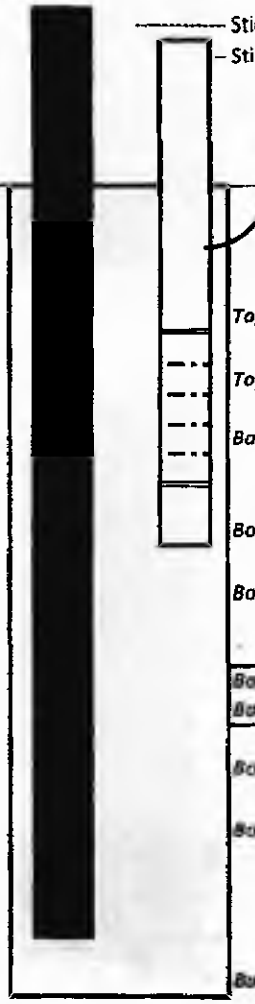
Driller: KELLY GUNT

Date: 9-28-23

Job # 823-124

		Design	Constructed (fill out if different)	Notes
Pipe Diameter TMP:	1.5"	Stick Up (TMP)	30"	
PMP:	1"	Stick Up (PMP)	24"	
Borehole Diameter:	6"			
Ground Surface	0.0'			
		Angle from Horizontal	90°	
Casing Material				
Carbon Steel				
Other				
TMP Pipe Length	33.5	Top of #00 Sand	1'	
PMP Riser Length	5	Top of PMP Screen	3'	
PMP Screen Length	2	Bags of #00 Sand	2.5	
		Bottom of PMP Screen	5'	
Screen Material				
Stainless Steel		Bottom of #00 Sand	7'	
Other				
		Bags of Cement	7.75	
Slot Size	"	Bags of Silica	2.5	
Installation Method		Borehole Diameter	6"	
Direct Push				
Screw		Bottom of TMP Well	31'	
Hollow Stem Auger				
Mud Rotary				
Other		Bottom of Borehole	31'	

HT Grout



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of TMP [ft bTOC]:	33.5'	
Depth to bottom of PMP [ft bTOC]:	7'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

Repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP [ft bgs]	Depth to Grout, PMP [ft bgs]

PID Log: Make/Model:

Time: 418	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-11

6b. Total well depth: 52 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ■ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 39 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID **M-11**

Date 09-21-23 / 9-22-2

Oversight Z. Rands / D. Phillips

Driller K. [redacted] CRANE

Job # R23-104

Well Diameter 4"

Borehole Diameter 8"

Casing Material
Carbon Steel
Other:

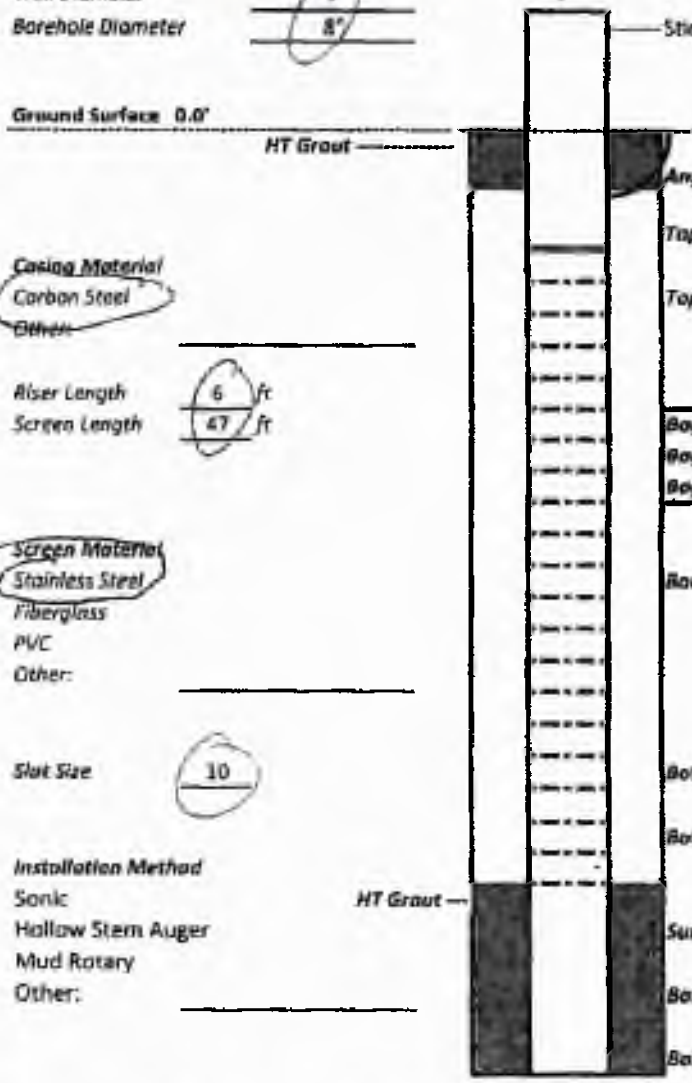
Riser Length 6 ft

Screen Length 47 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	36"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	30.75		
Bags of Cement	1.25		
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	50'		
Bottom of Screen	50'		
Sump Length	2'		
Bottom of Sump	52'		
Bottom of Borehole	52'		

Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]:	55'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	14:20	Reading:	0.0 PPM
Time:	15:20	Reading:	0.0 PPM
Time:	8:00	Reading:	0.0 PPM
Time:	9:30	Reading:	0.0 PPM
Time:	10:45	Reading:	0.0 PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-10

6b. Total well depth: 68 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ■ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 50 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* See attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **M-10**
Oversight: R. Ramos
Driller: K. ~~Gantt~~ GRANT
Date: 09-21-23
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

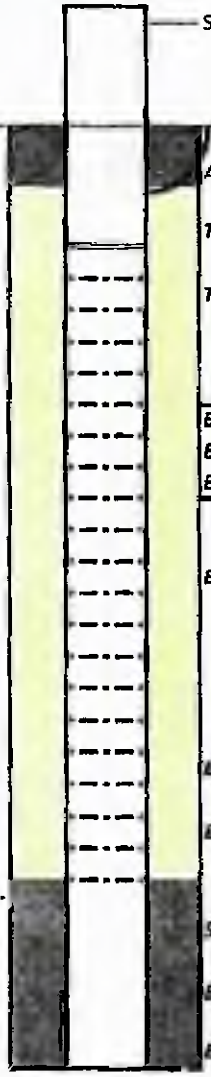
Casing Material
Carbon Steel
Other:

Riser Length: 6 ft
Screen Length: 63 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size: 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	36"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	40.75		
Bags of Cement	1.25		
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	66'		
Bottom of Screen	66'		
Sump Length	2'		
Bottom of Sump	68'		
Bottom of Borehole	68'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well (ft bTOC):	71'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 10:00	Reading: 6.8	PPM
Time: 11:45	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-27

6b. Total well depth: 26 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 11 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* See attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date 5/12/23
Approved by: SL

Well ID **H-27**
Oversight J. Baugh
Driller E. Grant

Date 10-03-23 / 10-04-23
Job # R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length 27.67'

Ground Surface 0.0'

Heater Can
Schedule 40

Conductive HT Grout

Heater Can Length 28 ft
Heater Can Diameter 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.25		
Bags of Silica	1.75		
Bags of Cement	6		
Bottom of Heater Can	26'		
Bottom of Borehole	26		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout Design Constructed
Depth to bottom of well [ft bTOC 28' ____
if greater than or equal to 1ft less than designed alert the office
2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 06:00	Reading: 0.1	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-12

6b. Total well depth: 22 **(ft.)**

6c. Borehole diameter: _____ **(in.)**

6d. Water level below ground surface: _____ **(ft.)**

6e. Outer casing length (if known): _____ **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): _____ **(ft.)**

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 17 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* See attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID **M-12**

Date 10-04-23

Oversight J. Baugh

Driller K. Grant

Job # RZ3-104

	Design	Constructed (fill out if different)	Notes
Well Diameter	4"		
Borehole Diameter	8"		
Stick Up Height	36"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	12		
Bags of Cement	1.25		
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	20'		
Bottom of Screen	20'		
Sump Length	2'		
Bottom of Sump	22'		
Bottom of Borehole	22'		

Ground Surface 0.0'

HT Grout

Casing Material
Carbon Steel
Other:

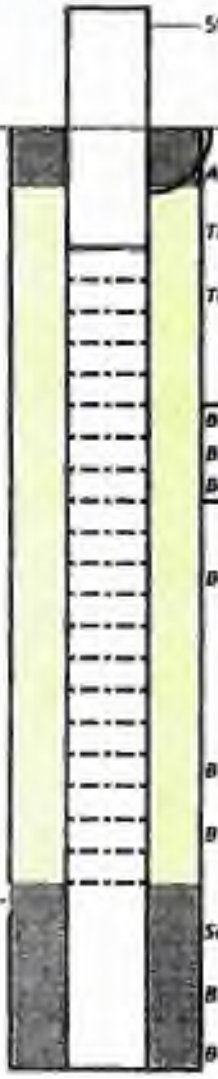
Riser Length 6 ft
Screen Length 17 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:

HT Grout



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC):	25'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	10:30	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-51

6b. Total well depth: 26 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ■ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 10.5 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **H-51**
Oversight: J. Baugh
Driller: K. Grant

Date: 10-04-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 27.67'

Ground Surface 0.0'

Heater Can
Schedule 40

Conductive HT Grout

Heater Can Length: 28 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
~~Sonic~~
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	8"		
5 Gal Buckets of Graphite	1.75		
Bags of Silica	1.75		
Bags of Cement	6		
Bottom of Heater Can	26'		
Bottom of Borehole	26'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well (ft bTOC	28'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model: 3.05

Time:	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-49

6b. Total well depth: 26 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 10.5 Gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* See attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date 5/12/23
Approved by: SL

Well ID H-49

Date 10-03-23

Oversight J. Baugh

Job # R23-104

Driller K. Grant

	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
1/2" Thermocouple pipe?	No		
Thermocouple Length	27.67'		
Ground Surface	0.0'		
Heater Can			
Schedule 40			
Conductive HT Grout			
Angle from Horizontal	90°		
Borehole Diameter	6"		
Heater Can Length	28 ft		
Heater Can Diameter	3 in		
5 Gal Buckets of Graphite	1.25		
Bags of Silica	1.75		
Bags of Cement	6		
Bottom of Heater Can	26'		
Bottom of Borehole	26'		



Installation Method

Direct Push

Sonic

Hollow Stem Auger

Mud Rotary

Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout Design Constructed

Depth to bottom of well (ft bTOC 28' _____

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 08:00	Reading: 0.0 PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-50

6b. Total well depth: 26 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned:_____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 10,5 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-50
Oversight: J. Baugh
Driller: K. Grant

Date: 10-03-23
Job #: RZ3-104

1/2" Thermocouple pipe? No
Thermocouple Length 27.6'

Ground Surface 0.0'

Heater Can

Schedule 40

Conductive HT Grout

Heater Can Length 28 ft

Heater Can Diameter 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.25		
Bags of Silica	1.75		
Bags of Cement	6		
Bottom of Heater Can	26'		
Bottom of Borehole	26'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	28'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	11:45	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-26

6b. Total well depth: 26 + 13 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 11 gallons

_____ — _____

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-26
Oversight: J. Baugh
Driller: K. GRANT

Date: 10-03-23
Job #: R23-104

1/2" Thermocouple pipe? ~~No~~ Yes
Thermocouple Length: 27.67'

Ground Surface 0.0'

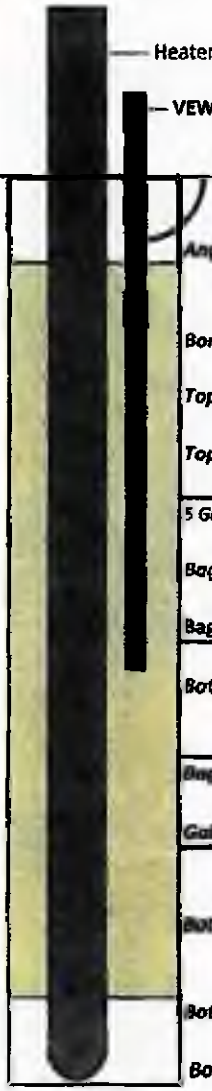
Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 28.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 1 in

Installation Method
~~Direct~~ Push
Sonic
~~Hollow~~ Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"		
VEW Stick-Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.25		
Bottom of Screen	13'		
Bags of #00 Sand	6.5		
Gallons of Limestone	6.5		
Bottom of #00 Sand	20'		
Bottom of Heater Can	26'		
Bottom of Borehole	26'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	28.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model: PID 20

Time:		Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-9

6b. Total well depth: 47' + 13' (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ■ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 19 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-9
Date: 8-31-23
Oversight: J. Baugh
Job #: R23-104
Driller: Prosonic KEITH GRAM

1/2" Thermocouple pipe? Yes
Thermocouple Length: 45.5'

Heater Can: Schedule 80
Conductive HT Grout

Heater Can Length: 49.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 1 in

Installation Method
- Direct Push
- Sonic
- Hollow Stem Auger
- Mud Rotary
- Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"		
VEW Stick-Up Height	18"		
Ground Surface	0.0'		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	13'		
Bags of #00 Sand	17		
Gallons of Limestone	14.5		
Bottom of #00 Sand	40'		
Bottom of Heater Can	47'		
Bottom of Borehole	47'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	49.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 9:50	Reading: 0.3	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-8

6b. Total well depth: 47 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 18.5 sacks

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-8
Oversight: Jessie Rough
Driller: ~~Brandon K~~ 117 Grout
Date: 9-5-23
Job #: R23-104

	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	2.5		
Bags of Silica	3.25		
Bags of Cement	10.75		
Bottom of Heater Can	47'		
Bottom of Borehole	47'		

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 48.67'

Ground Surface 0.0'

Heater Can — ***Conductive HT Grout***

Schedule 40

Heater Can Length: 49 ft

Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	49'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	1.45	Reading:	0.1 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees: (if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-33

6b. Total well depth: 57 + 13 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 22.5 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-33
Oversight: J. Baugh
Driller: ~~Boston~~ KEITH GRAY

Date: 9-5-23
Job #: R23-104

1/2" Thermocouple pipe? No
Thermocouple Length: 58.67

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 59.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"		
VEW Stick-Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	13'		
Bags of #00 Sand	~~185~~	80	
Gallons of Limestone	18.5		
Bottom of #00 Sand	50'		
Bottom of Heater Can	57'		
Bottom of Borehole	57'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	59.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 12:55	Reading: 0.1	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-7

6b. Total well depth: 52 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 38 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. **For Injection Wells:** In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. **For Water Supply & Injection Wells:** In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

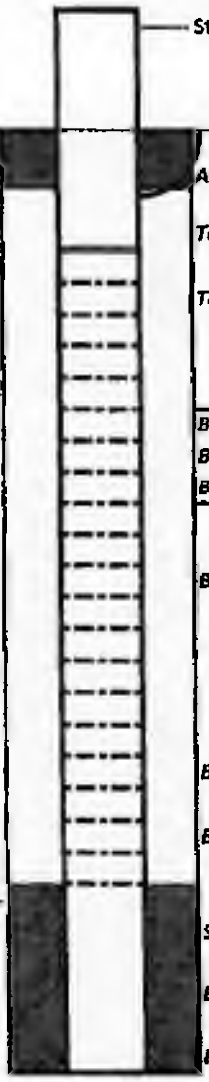
TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: M-7
Date: 9-5-23
Oversight: J. Baugh
Job #: R23-104
Driller: ~~Brandon~~ KELLY GRAY

	Design	Constructed (fill out if different)	Notes
Well Diameter	4"		
Borehole Diameter	8"		
Stick Up Height	36"		
Ground Surface	0.0'		
HT Grout			
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	30.75		
Bags of Cement	1.25		
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	50'		
Bottom of Screen	50'		
HT Grout			
Sump Length	2'		
Bottom of Sump	52'		
Bottom of Borehole	52'		



Casing Material
Carbon Steel
Other:

Riser Length: 6 ft
Screen Length: 47 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size: 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC]:	55'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 0:09	Reading: 0.0	PPM
Time:	Reading:	PPM
Time: 7:45	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

9-5-2
9-6-2

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-20

6b. Total well depth: 57 + 52 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-20
Date: 9-6-23
Oversight: J. Baugh
Job #: R23-104
Driller: Brandon - Kelly Grant

	Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	No		
Thermocouple Length	58.67'		
Heater Stick Up Height	30"		
SIW Stick Up Height	18"		
Ground Surface 0.0'			
Conductive HT Grout			
Angle from Horizontal	90°		
Heater Can			
Schedule 80			
Heater Can Length	59.5'		
Heater Can Diameter	3"		
Borehole Diameter	7"		
5 Gal Buckets of Graphite	2.25		
SIW			
Riser Length	51.5 ft		
Screen Length	2 ft		
Bags of Silica	3		
Bags of Cement	10		
Screen Material			
Stainless Steel			
Fiberglass			
Other:			
Top of #00 Sand	30'		
SIW Slot Size	10		
Screen Diameter	1"		
Bags of Sand	7.5		
Gallons of Limestone	7.5		
Installation Method			
Sonic			
Direct Push			
Hollow Stem Auger			
Mud Rotary			
Other:			
Top of Screen	50'		
Bottom of Screen	52'		
Bottom of #00 Sand	54'		
Conductive High Temp Grout			
Bottom of Borehole	57'		



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]:	59.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	1:30	Reading:	0.1 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-7

6b. Total well depth: 57' + 52' (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-1-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

SIW Boring Construction Detail

Revision #: 1
Release date: 6/27/23
Approved by: EH

Well ID H-7

Oversight J. Baugh

Driller ~~Brandon~~ KELLY GARAT

Date 9-7-23

Job # R23-104

1/2" Thermocouple pipe? Yes
Thermocouple Length 58.67'

Ground Surface 0.0'

Heater Can
Schedule 80

Heater Can Length 59'
Heater Can Diameter 3'

SIW
Riser Length 51.5 ft
Screen Length 2 ft
Screen Material
Stainless Steel
Fiberglass
Other:

SIW Slot Size 10
Screen Diameter 1"

Installation Method
Sonic
Direct Push
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick Up Height	24"		
SIW Stick Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
5 Gal Buckets of Graphite	2		
Bags of Silica	3		
Bags of Cement	9.5		
Top of #00 Sand	30'		
Bags of Sand	8		
Gallons of Limestone	8		
Top of Screen	50'		
Bottom of Screen	52'		
Bottom of #00 Sand	54'		
Bottom of Borehole	57'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout Design Constructed
Depth to bottom of well [ft bTOC]: 59'
If greater than or equal to 1ft less than designed alert the office
2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 10:31	Reading:	0.0	PPM
Time: 1:15	Reading:	0.0	PPM
Time:	Reading:		PPM
Time:	Reading:		PPM
Time:	Reading:		PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-03A

6b. Total well depth: 57.5 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 22.5 gallons

_____ — _____

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-1-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-03A
Date: 6/16/23 - 6/18/23
Oversight: Jeff Stone
Job #: R23-104
Driller: Cory Franklin / W Winberly

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	[redacted]			
Thermocouple Length	59.17'			
Heater Stick Up Height		30"		
~~SIW Stick Up Height~~		~~48"~~		not installed
Ground Surface 0.0'				
Conductive HT Grout				
Angle from Horizontal		78°		
Heater Can				
Schedule 80				
Heater Can Length	60'			
Heater Can Diameter	3'			
Borehole Diameter		7"		
~~5 Gal Buckets of Graphite~~		2.25		
SIW (not installed)				
Riser Length	~~61.5~~ ft			
Screen Length	~~2~~ ft			
~~Bags of Silica~~		3		
~~Bags of Cement~~		10		
Screen Material				
Stainless Steel				
Fiberglass				
Other:				
~~Top of #00 Sand~~		~~50'~~		
~~Bags of Sand~~		~~7.5~~		
~~Gallons of Limestone~~		~~7.5~~		
SIW Slot Size	~~10~~			
Screen Diameter	~~1"~~			
Top of Screen		50.5'		
Bottom of Screen		52.5'		
Grout to surface 3 Batches				
Bottom of #00 Sand		54.5'		
Conductive High Temp Grout				
Bottom of Borehole		57.5'		

Installation Method
(Sonic)
Direct Push
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC):	60'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 10:30	Reading: Cal	PPM
Time: 11:30	Reading: 0.0	PPM
Time: 2:00	Reading: 0.6	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:
3 Batches Grout

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-03B

6b. Total well depth: 87.5 + 23' (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 35 gal/0.75

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-03B
Date: 6-20-23
Oversight: Jeff Stone
Job #: R23-104
Driller: Cory Franklin / W. Wimberly

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 87.67'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 91 ft
Heater Can Diameter: 3 in
Screen Length: ~~20~~ ~~19.5~~ ft
Riser Length: 6 ~~7~~ ft
Screen Diameter: 1 in

Installation Method
Direct Push
(Sonic)
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	(3.5') / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1' / 6"	3'	
Angle from Horizontal	35°		
Borehole Diameter	7"		
Top of #00 Sand	~~5~~	1'	
Top of Screen	~~5~~	3'	
5 Gal Buckets of Graphite	1	"	
Bags of Silica	1.5		
Bags of Cement	4.5		
Bottom of Screen	~~20.5~~	23'	
Bags of #00 Sand	28	24 "	
Gallons of Crushed Limestone	28	30	
Bottom of #00 Sand	76.5'		
Bottom of Heater Can	87.5'		
Bottom of Borehole	87.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: Depth to bottom of well [ft bTOC]: 91' — Constructed:
if greater than or equal to 1ft less than designed alert the office
2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 9:45	Reading: 0.0	PPM
Time: 10:46	Reading: 0.0	PPM
Time: 11:30	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-03C

6b. Total well depth: 76 + 14 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 31 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-1-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Hold Off till Utilities verified

Well ID: HC-03C
Date: 5-20 / 5-21-23
Oversight: CONDON
Job #: R23-104
Driller: FRANKLIN/WWimberly

YES, REPLACE 1C

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 75.92'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

	Design	Constructed (fill out if different)	Notes
– Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	48°		
Borehole Diameter	7"		
Top of #00 Sand	2'		
Top of Screen	4'	4'	
5 Gal Buckets of Graphite	0.75		
Bags of Silica	1		
Bags of Cement	3.5		
Bottom of Screen	~~17.5'~~	14'	
Bags of #00 Sand	33		
Gallons of Crushed Limestone	33		
Bottom of #00 Sand	67.5'		
Bottom of Heater Can	76'		
Bottom of Borehole	76'	76'	

Heater Can Length: 79 ft
Heater Can Diameter: 3 in
Screen Length: 13.5 ft
Riser Length: 5.5 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	79'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	2 0	Reading:	16.00 PPM
Time:	0 0	Reading:	16:25 PPM
Time:	0.0	Reading:	16:40 PPM
Time:	0.0	Reading:	07:30 PPM
Time:		Reading:	PPM

Notes: PLACE 76 TC IN HC-3C TO PICK UP

MISSED TC IN HC 1-C

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-030

6b. Total well depth: 62' + 14' (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-1-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-03D
Date: 6-2-23
Oversight: Condor
Job #: R23-104
Driller: C. FRANKLIN / W. Winberly

NO HC-3C HAS TO MOVED 1d

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 61.75'

Ground Surface 0.0'

Heater Can — Schedule 80

Conductive HT Grout—

Heater Can Length: 64.5 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 5.5 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
~ Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	66°		
Borehole Diameter	7"	7	
Top of #00 Sand	2'		
Top of Screen	4'	4	
5 Gal Buckets of Graphite	0.75	1	
Bags of Silica	1	1	
Bags of Cement	3	3	
Bottom of Screen	14'	14	
Bags of #00 Sand	26.5	11	
Gallons of Crushed Limestone	26.5	5 BUCKETS	
Bottom of #00 Sand	54.5'		
Bottom of Heater Can	62'		
Bottom of Borehole	62'	62	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	64.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	3:45 PM	Reading:	0.0 PPM
Time:	4:00	Reading:	0.0 PPM
Time:	0720	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-03E

6b. Total well depth: 26.5 + 36 ft. (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned:_____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 31 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **HC-03E**
Date: 6-13-23
Oversight: J. Baugh
Job #: R23-104
Driller: C. Franklin / W. Winberly

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 77.29'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 81.5 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 29 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	5' / 30"		
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1.5' / 6"	2'6"	
Angle from Horizontal	22°		
Borehole Diameter	7"		
Top of #00 Sand	24'	[redacted]	24'6"
Top of Screen	26.5'	26'5"	
5 Gal Buckets of Graphite	2.75		
Bags of Silica	3.75		
Bags of Cement	12		
Bottom of Screen	34.5'	36'6"	
Bags of #00 Sand	14		
Gallons of Crushed Limestone	14		
Bottom of #00 Sand	61.5'		
Bottom of Heater Can	76.5'		
Bottom of Borehole	76.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]	81.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 8:00	0.0	Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-04A

6b. Total well depth: 59' 13' (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 23 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

Release date: 5/12/23
Approved by: SL

Well ID: HC-04A

Date: 6-26-25

Driller: J. Baugh / C. Franklin / W. Wimberly

Job #: R23-104

1/2" Thermocouple pipe? No

Thermocouple Length: 57.17'

Ground Surface: 0.0'

Heater Can: Conductive HT Grout

Schedule 80

Heater Can Length: 60 ft

Heater Can Diameter: 3 in

Screen Length: 10 ft

Riser Length: 4.5 ft

Screen Diameter: 1 in

Installation Method

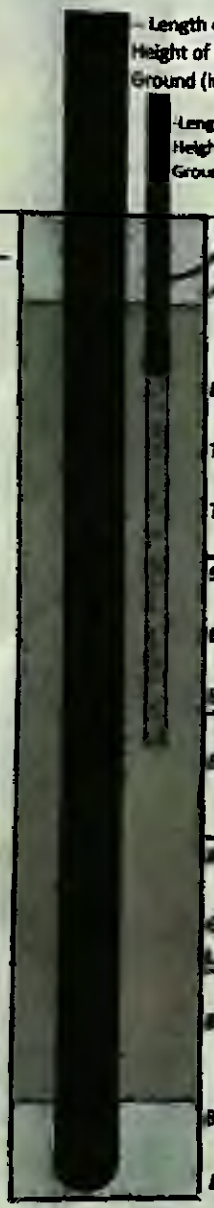
Direct Push

Sonic

Hollow Stem Auger

Mud Rotary

Other:



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"	24	
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"	18	
Angle from Horizontal	78°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	13'		
Bags of #00 Sand	19		
Gallons of Crushed Limestone	19		
Bottom of #00 Sand	50.5'		
Bottom of Heater Can	57.5'		
Bottom of Borehole	57.5'	58.0	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	60'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 12:10 pm	Reading: 0.0	PPM
Time: 1:15 pm	Reading: 0.0	PPM
Time: 1:30 pm	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-16

6b. Total well depth: 32 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned:_____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 24 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-3-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/21
Approved by: SL

MW 16

Oversight: R. Phillips

Driller: F. Dorse

Date: 7-22-23

Job #: R23-104

Well Diameter: 8"

Borehole Diameter: 8"

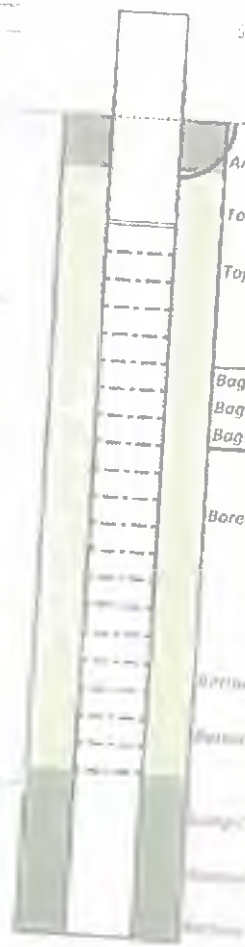
Ground Surface: 0.0 ft Grade

Casing Material: Carbon Steel / Other

Riser Length: 6 ft

Screen Length: 27 ft

Fiberglass / PVC



	Design	Constructed (fill out if different)	Notes
Stick-up Height	36"		
Angle from Horizontal	90°		
Top of #00 Sand	3'		
Top of Screen	3'		
Bags of #00 Sand	18.25	18	
Bags of Cement	1.25	1	
Bags of Silica	0.5	0.5	
Borehole Diameter	8"		
Bottom of Sand			
Bottom of Screen			
Bottom of Bentonite	17'		

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-37

6b. Total well depth: 36' (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 15 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-3-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-37
Date: 7-21-23
Oversight: D. Phillips
Job #: R23 104
Driller: Fred Darse

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 37.67'

Ground Surface 0.0'

Heater Can: Schedule 40

Heater Can Length: 38 ft
Heater Can Diameter: 8 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	14		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.75	1	
Bags of Silica	2.5	2	
Bags of Cement	8.25	4	
Bottom of Heater Can	38'		
Bottom of Borehole	38'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well (ft bTOC	38'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 13:00pm	Reading: 0.0	PPM
Time: 14:00pm	Reading: 0.0	PPM
Time: 15:00pm	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Industrial/Commercial
- ☐ Irrigation
- ☐ Municipal/Public
- ☐ Residential Water Supply (single)
- ☐ Residential Water Supply (shared)

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Aquifer Storage and Recovery
- ☐ Aquifer Test
- ☐ Experimental Technology
- ☐ Geothermal (Closed Loop)
- ☐ Geothermal (Heating/Cooling Return)
- ■ Groundwater Remediation
- ☐ Salinity Barrier
- ☐ Stormwater Drainage
- ☐ Subsidence Control
- ☐ Tracer
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-4

6b. Total well depth: _____ (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Sand Cement Grout
- ☐ Concrete Grout
- ☐ Specialty Grout
- ☐ Bentonite Slurry
- ☐ Bentonite Chips or Pellets
- ☐ Dry Clay
- ☐ Drill Cuttings
- ☐ Gravel
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 23 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-3-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-4
Oversight: T. Baugh
Driller: F. Dorste

Date: 7-21-23
Job #: R23 104

1/2" Thermocouple pipe
Thermocouple Length: 55 67'

Ground Surface: 0.0'

Heater Can
Schedule 40

Heater Can Length: 55 ft
Heater Can Diameter: 1 in

Installation Method
Mud Rush
Hollow Stem Auger
Mud Rotary
Other



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"	24"	
Angle from Horizontal	90°		
Borehole Diameter	8"		
5 Gal Buckets of Graphite	1	1	
Bags of Silica	4	2	
Bags of Cement	11	11	
Bottom of Heater Can	55'		
Bottom of Borehole	57'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	59'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	8:30	Reading:	0.0 ppm
Time:	9:25	Reading:	0.0 ppm
Time:	10:30	Reading:	0.8 ppm
Time:	11:00	Reading:	0.8 ppm
Time:		Reading:	ppm

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: S2 (SB-06)

6b. Total well depth: 55 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 5 1/2 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-3-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

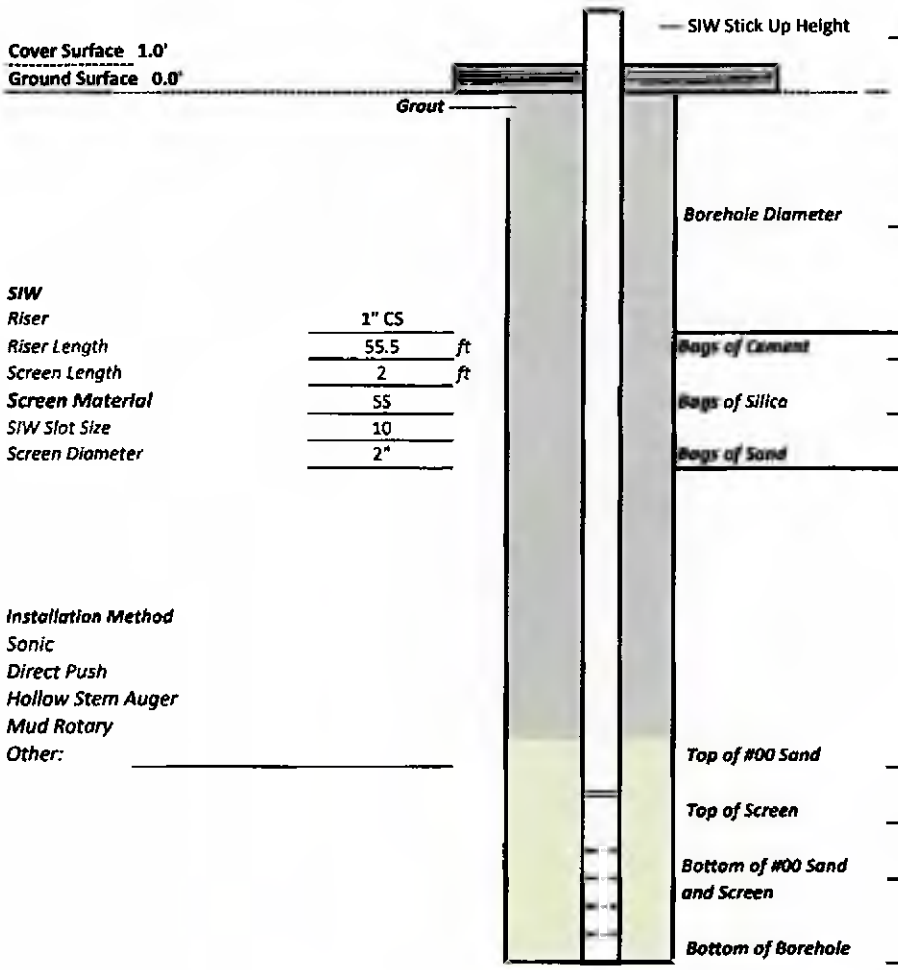
10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 04/02/24
Approved by: DS / EH

Well ID: **S-2 (SB-06)**
Date: 4/2/2024
Oversight: Danny Saak
Job #: R23-104
Driller: Spencer Williams



	Design	Constructed (fill out if different)	Notes
SIW Stick Up Height	18"		
Borehole Diameter	6"		
Bags of Cement	14.50	14.5	
Bags of Silica	4.75	4.75	
Bags of Sand	2.0	2	
Top of #00 Sand	51	51	
Top of Screen	53	53	
Bottom of #00 Sand and Screen	55	55	
Bottom of Borehole	55	55	

SIW

Riser	1" CS	
Riser Length	55.5	*ft*
Screen Length	2	*ft*
Screen Material	SS	
SIW Slot Size	10	
Screen Diameter	2"	

Installation Method

Sonic
Direct Push
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 57.5 — Constructed:

Depth to bottom of well [ft bTOC]:

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: S1 (SB-04

6b. Total well depth: 55 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 5 ½ gallons.

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-3-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

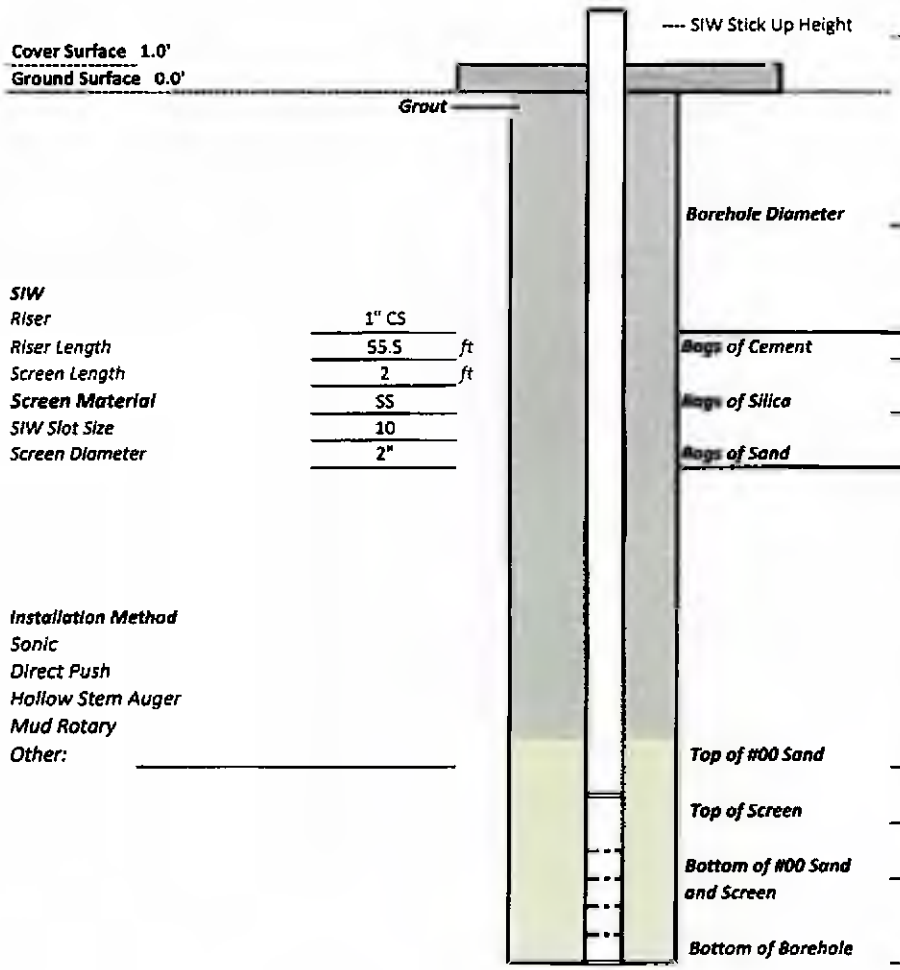
10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 04/02/24
Approved by: DS / EH

Well ID: S-1 (SB-04)
Date: 4/2/2024
Oversight: Danny Saak
Job #: R23-104
Driller: Spencer Williams



	Design	Constructed (fill out if different)	Notes
---- SIW Stick Up Height	18"		
Borehole Diameter	6"		
Bags of Cement	14.50	14.5	
Bags of Silica	4.75	4.75	
Bags of Sand	2.0	2	
Top of #00 Sand	51	51	
Top of Screen	53	53	
Bottom of #00 Sand and Screen	55	55	
Bottom of Borehole	55	55	

SIW

Riser	1" CS	
Riser Length	55.5	*ft*
Screen Length	2	*ft*
Screen Material	SS	
SIW Slot Size	10	
Screen Diameter	2"	

Installation Method

Sonic
Direct Push
Hollow Stem Auger
Mud Rotary
Other: _____

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 57.5 — Constructed: _____

Depth to bottom of well (ft bTOC):

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: V-1

6b. Total well depth: 41 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 2 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-2-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

VEW Boring Construction Detail

Revision #: 1
Release date: 6/27/23
Approved by: EH

Well ID: V-1
Date: 7.7.23
Oversight: D PHILLIPS
Job #: R23-104
Driller: C. FRANKLIN/W. Wimberly



	Design	Constructed (fill out if different)	Notes
VEW Stick-Up Height	18"	~~48"~~	36"
Ground Surface	0.0'		
Angle from Horizontal	22°		
Borehole Diameter	6"		
Top of #00 Sand	13.5'		
Top of Screen	26.5'		
5 Gal Buckets of Graphite	1		
Bags of Silica	1.25		
Bags of Cement	4		
Bags of #00 Sand	9.5	10	
Gallons of Limestone	9.5	2 BAGS	
Bottom of Sand and Screen	41.5'		
Bottom of Borehole	41.5'	41'	

Riser Length	29	ft
Screen Length	15	ft
Screen Diamter	1	in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	43 ft	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	9:40	Reading:	0.0 PPM
Time:	10:40	Reading:	0.0 PPM
Time:	11:40	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes: DOUBLE CHECK ON 7-8-23 TAGGED 41' RISER + SCREEN TD 36" STICK UP.

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: V-2

6b. Total well depth: 42 **(ft.)**

6c. Borehole diameter: _____ **(in.)**

6d. Water level below ground surface: _____ **(ft.)**

6e. Outer casing length (if known): _____ **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): _____ **(ft.)**

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 2 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

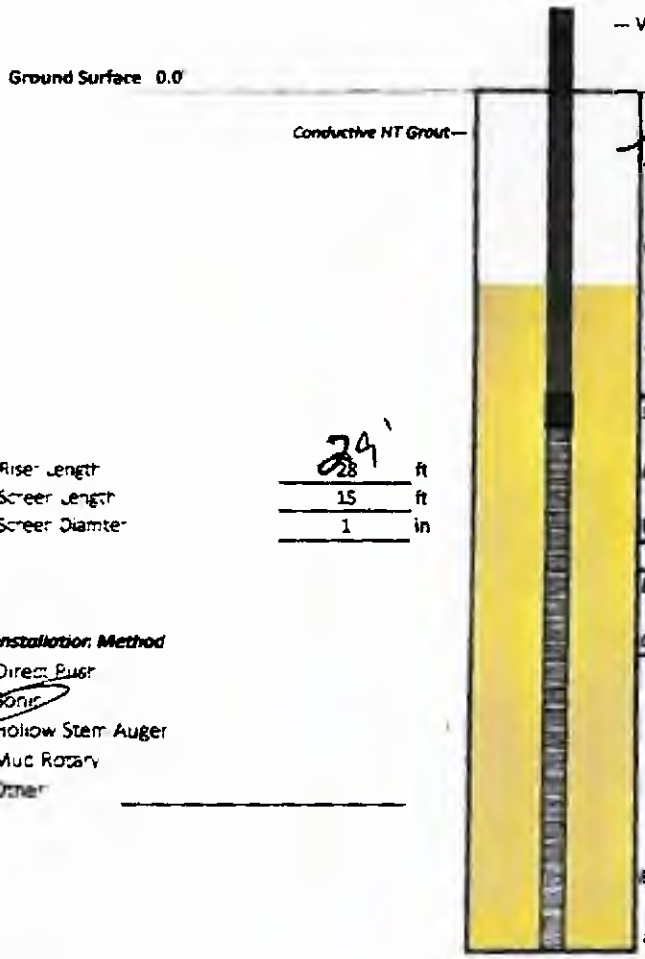
10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

VEW Boring Construction Detail

Revision #: 1
Release date: 6/27/23
Approved by: EH

Well ID: V-2
Date: 7-7-23
Oversight: D PHILLIPS
Job #: R23-104
Driller: C. FRANKLIN / W. Wimberly



	Design	Constructed (fill out if different)	Notes
— VEW Stick-Up Height	18"	24"	24"
Angle from Horizontal	22°		
Borehole Diameter	6"		
Top of #00 Sand	13.5'	13	
Top of Screen	26.5'		
5 Gal Buckets of Graphite	1		
Bags of Silica	1.25		
Bags of Cement	4		
Bags of #00 Sand	9.5	10	
Gallons of Limestone	9.5	2 3/4 55	
Bottom of Sand and Screen	41.5'		
Bottom of Borehole	41.5'	40	42'

Riser Length: 24' (28) ft
Screen Length: 15 ft
Screen Diamter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other: _____

Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft BTOC	43 ft	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	1:00	Reading:	0.0 PPM
Time:	2:00	Reading:	0.0 PPM
Time:	3:00	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes: DOUBLE CHECK JJ 7-8-23
SAND

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: U-3

6b. Total well depth: 41.3 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 2 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

VEW Boring Construction Detail

Revision #: 1
Release date: 6/27/23
Approved by: EH

Well ID: V-3
Date: 7-8-23
Oversight: D PHILLIPS
Job #: R23-104
Driller: C FRANKLIN / W. Wimberly



	Design	Constructed (fill out if different)	Notes
— VEW Stick-Up Height	18"	~~3~~	32"
Angle from Horizontal	22°	22°	
Borehole Diameter	6"	6"	
Top of #00 Sand	13.5'		
Top of Screen	26.5'		
5 Gal Buckets of Graphite	1		
Bags of Silica	1.25		
Bags of Cement	4		
Bags of #00 Sand	9.5	11	
Gallons of Limestone	9.5	2 Buckets	
Bottom of Sand and Screen	41.5'		
Bottom of Borehole	41.5'	41' 4"	

Riser Length	~~28~~ 29 ft
Screen Length	15 ft
Screen Diamter	1 in

Installation Method
Direct Push
(Sonic)
Hollow Stem Auger
Mud Rotary
Other:

Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC	43 ft	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	7:00	Reading:	0.0 PPM
Time:	8:53	Reading:	0.0 PPM
Time:	9:57	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes: Angle Well

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-15

6b. Total well depth: 32 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 24 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-1-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: M-15
Date: 8-30-23
Oversight: J. Baugh
Driller: K. Grade
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

Ground Surface 0.0'

HT Grout

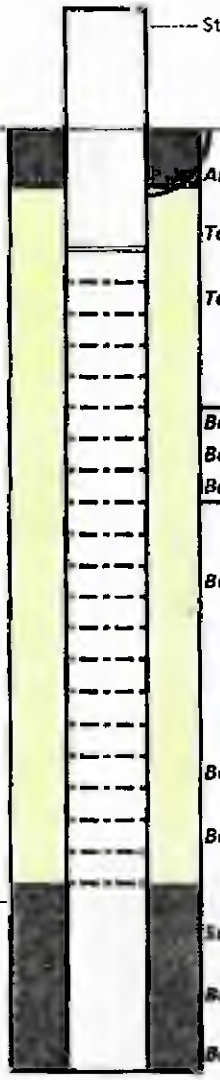
Casing Material
Carbon Steel
Other:

Riser Length 6 ft
Screen Length 27 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	36"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	18.25		
Bags of Cement	1.25		
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	30'		
Bottom of Screen	30'		
Sump Length	2'		
Bottom of Sump	32'		
Bottom of Borehole	32'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 35' — Constructed: ____
Depth to bottom of well [ft bTOC]:
if greater than or equal to 1ft less than designed alert the office
2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 1108	Reading: 0.5	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-1

6b. Total well depth: 57 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 23 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM
a Geosyntec Company

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-1
Oversight: J. Baugh
Driller: F. Dorse / W. Wimberly
Date: 7-20-23
Job #: R23-104

1/2" Thermocouple pipe?
Thermocouple Length: [redacted] 58.67'

Ground Surface 0.0'

Heater Can: Schedule 40

Heater Can Length: 59 ft

Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	3	1	
Bags of Silica	4	2	
Bags of Cement	13	11	
Bottom of Heater Can	57'		
Bottom of Borehole	57'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well (ft bTOC	59'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	13:00	Reading:	0.0 PPM
Time:	14:00	Reading:	0.0 PPM
Time:	15:00	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-36

6b. Total well depth: 36 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 14.5 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-36
Date: 7-9-23
Oversight: D Phillips
Job #: R23-104
Driller: F. Doise / W. Wimberly

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 37.67'

Heater Can
Schedule 40

Heater Can Length: 38 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"	22.5	
Angle from Horizontal	90°		
Borehole Diameter	6"	6"	
5 Gal Buckets of Graphite	1.75	1	
Bags of Silica	2.5	2	
Bags of Cement	8.25	4	
Bottom of Heater Can	36'		
Bottom of Borehole	36'	36'	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	38'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	7:30	Reading:	0.0 PPM
Time:	8:30	Reading:	0.0 PPM
Time:	9:30	Reading:	0.0 PPM
Time:	10:30	Reading:	0.0 PPM
Time:		Reading:	PPM

Notes: yellow/yellow

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-18-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-32

6b. Total well depth: 57' + 52' (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

■Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Treime grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-32
Date: 8-30-23
Oversight: J. Bunch
Driller: K. Gray
Job #: R23-104

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	No			
Thermocouple Length	58.67'			
Heater Stick Up Height		30"		
SIW Stick Up Height		18"		
Ground Surface 0.0'				
Conductive HT Grout		Angle from Horizontal	90°	
Heater Can				
Schedule 80				
Heater Can Length	59.5'	Borehole Diameter	7"	
Heater Can Diameter	3'			
		5 Gal Buckets of Graphite	2.25	3
SIW		Bags of Silica	3	1
Riser Length	51.5 ft	Bags of Cement	10	3
Screen Length	2 ft	Top of #00 Sand	30'	
Screen Material				
Stainless Steel		Bags of Sand	7.5	9
Fiberglass		Gallons of Limestone	7.5	
Other:		Top of Screen	50'	
SIW Slot Size	10			
Screen Diameter	1"			
Installation Method				
Sonic				
Direct Push				
Hollow Stem Auger		Bottom of Screen	52'	
Mud Rotary				
Other:				
		Bottom of #00 Sand	54'	
Conductive High Temp Grout		Bottom of Borehole	57'	



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC]:	59.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 3:30	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-04B

6b. Total well depth: 87.5+22.5 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned:_____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 35 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-04B
Date: 7-9-25
Oversight: D Phillips
Job #: R23-104
Driller: C Franklin / W. Wimberly

1/2" Thermocouple pipe? Yes
Thermocouple Length: 87.67'

Ground Surface 0.0'

Heater Can
Schedule 80

Conductive HT Grout

	Design	Constructed (fill out if different)	Notes
– Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3.5' / 30"	3.6	
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1' / 6"		
Angle from Horizontal	35°		
Borehole Diameter	7"		
Top of #00 Sand	3'		
Top of Screen	5'		
5 Gal Buckets of Graphite	1		
Bags of Silica	1.5		
Bags of Cement	4.5		
Bottom of Screen	22.5'		
Bags of #00 Sand	28		
Gallons of Crushed Limestone	28		
Bottom of #00 Sand	76.5'		
Bottom of Heater Can	87.5'		
Bottom of Borehole	87.5'	87.5	

Heater Can Length	91	ft
Heater Can Diameter	3	in
Screen Length	17.5	ft
Riser Length	7	ft
Screen Diameter	1	in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	91'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	9:30	Reading:	0.0 PPM
Time:	9:30	Reading:	0.0 PPM
Time:	10:30	Reading:	0.0 PPM
Time:	11:30	Reading:	0.0 PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-04C

6b. Total well depth: 26' + 14' (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 30 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Hold off till Utilities verified

Well ID: HC-04C
Oversight: CONDON
Driller: C. FRANKLIN/WWI monthly
Date: 5-21-23 / 5-22-23
Job #: R23-104

1/2" Thermocouple pipe? 16
Thermocouple Length: 25.93'

Ground Surface 0.0'

Heater Can: Schedule 80
Conductive HT Grout---

Heater Can Length: 79 ft
Heater Can Diameter: 3 in
Screen Length: 10 ~~13.5~~ ft
Riser Length: 6 ~~5.5~~ ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3' / 30"		
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	48°	✓	
Borehole Diameter	7"	✓	
Top of #00 Sand	2'		
Top of Screen	4'	4'	
5 Gal Buckets of Graphite	0.75		
Bags of Silica	1		
Bags of Cement	3.5		
Bottom of Screen	~~17.5'~~	14'	
Bags of #00 Sand	33		
Gallons of Crushed Limestone	33		
Bottom of #00 Sand	67.5'		
Bottom of Heater Can	76'		
Bottom of Borehole	76'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	79'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 13:30	Reading: 0.0	PPM
Time: 13:48	Reading: 0.0	PPM
Time: 14:20	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

FINISHED INSTALL

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-04D

6b. Total well depth: 62 + 14' (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-1-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-04D
Oversight: J. Baugh
Driller: C. Frost / Cascade

Date: 6-2-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 61.75'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 64.8 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Riser Length: 5.5 ft
Screen Diameter: 1 in

Installation Method
Direct Push
~~Sonic~~
Hollow Stem Auger
Mud Rotary
Other: _____



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"		
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	66°		
Borehole Diameter	7"	7	
Top of #00 Sand	2'		
Top of Screen	4'	4	
5 Gal Buckets of Graphite	0.75	1	
Bags of Silica	1	1	
Bags of Cement	3	3	
Bottom of Screen	14'	14	
Bags of #00 Sand	26.5	11	
Gallons of Crushed Limestone	26.5	5	BUCKETS
Bottom of #00 Sand	54.5'		
Bottom of Heater Can	62'		
Bottom of Borehole	62'	62	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	64.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 10:00 6-2	Reading: 0.0 BZ PPM
Time: 9:25	Reading: 0.0 PPM
Time: 10:40	Reading: 0.0 PPM
Time: 11:00	Reading: 0.2 BZ PPM
Time:	Reading: PPM

Notes: PID STRIKE IN SOIL @ 600 RPM – 10.8 IN BZ BUT NOT SUSTAINED.

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-04E

6b. Total well depth: 76.5 + 36.6 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 31 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-1-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 1
Release date: 6/14/23
Approved by: _____

Well ID: **HC-04E**
Oversight: J. Baugh
Driller: C. Franklin / W. Winderly

Date: 6-24-23
Job #: R23-104

1/2" Thermocouple pipe? No
Thermocouple Length: 77.29'

Heater Can Length: 81.5 ft
Heater Can Diameter: 3 in
Screen Length: ~~10~~ 8 ft
Riser Length: 29 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other: _____



Schedule 80

	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	5' / 30"		
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1.5' / 6"		
Angle from Horizontal	22°		
Borehole Diameter	7"		
Top of #00 Sand	21.5'		
Top of Screen	26.5'	26'6"	
5 Gal Buckets of Graphite	2.5		
Bags of Silica	3.5		
Bags of Cement	11		
Bottom of Screen	34.5'	36'6"	
Bags of #00 Sand	15		
Gallons of Crushed Limestone	15		
Bottom of #00 Sand	61.5'		
Bottom of Heater Can	76.5'		
Bottom of Borehole	76.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC]	81.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 9:36 am	Reading: 0.0	PPM
Time: 10:30 am	Reading: 0.0	PPM
Time: 11:30 am	Reading: 0.0	PPM
Time: 1:00 pm	Reading: 0.0	PPM
Time: 2:30 pm	Reading: 0.0	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-05A

6b. Total well depth: 57.5' + 13' (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 23 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-1-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-05A
Date: 6-28-23
Oversight: J. Baugh
Job #: R23-104
Driller: C. Franklin / W. Waberly

1/2" Thermocouple pipe? No
Thermocouple Length: 57.17'

Ground Surface 0.0'

Heater Can — Schedule 80

Conductive HT Grout

Heater Can Length: 60 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 45 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"	24"	
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"	18	
Angle from Horizontal	78°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	13'		
Bags of #00 Sand	19		
Gallons of Crushed Limestone	19		
Bottom of #00 Sand	50.5'		
Bottom of Heater Can	57.5'		
Bottom of Borehole	57.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	60'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 9:03 am	Reading: 0.7	PPM
Time: 9:30 am	Reading: 1.0	PPM
Time: 10:00 am	Reading: 0.8	PPM
Time: 1:30 pm	Reading: 0.8	PPM
Time: 2:00 pm	Reading: 0.0	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-058

6b. Total well depth: 87.5+23 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 35 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **HC-05B**
Date: 7-11-25
Oversight: Jeff Stone
Job #: R23-104
Driller: Cory F. / W. Wimberly

		Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)		3.5' / 30"	3	
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)		1'6"	1'.10"	
Angle from Horizontal		35°		
Borehole Diameter		7"		
Top of #00 Sand		3		
Top of Screen		5		
5 Gal Buckets of Graphite		1	1	
Bags of Silica		1.5	2	
Bags of Cement		4.5	4	
Bottom of Screen		~~22.5~~	27'	
Bags of #00 Sand		~~28~~	24	
Gallons of Crushed Limestone		~~28~~	30	
Bottom of #00 Sand		76.5'		
Bottom of Heater Can		87.5'		
Bottom of Borehole		87.5'		

Thermocouple pipe? ~~Yes~~ No
Thermocouple Length: 87.67'

Ground Surface 0.0'

Heater Can: ~~Heater Can~~ Schedule 80
Conductive HT Grout

Heater Can Length: 91 ft
Heater Can Diameter: 3 in
Screen Length: 17.5 ft
Riser Length: 7 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	91'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	11:30	Reading:	PPM
Time:	12:36	Reading:	PPM
Time:	1:06	Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:
35°

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-05C

6b. Total well depth: 76 + 14 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 30 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Hold off till Utilities verified

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-05C
Date: 5-22
Oversight: Conor
Job #: R23-104
Driller: C. FRANKLIN / W Winberly

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	[redacted]			
Thermocouple Length	75.92'			
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)		3' / 30"		
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)		0.5' / 6"		
Ground Surface	0.0'			
Angle from Horizontal		48°		
Borehole Diameter		7"		
Top of #00 Sand		2'		
Top of Screen		4'	4'	
5 Gal Buckets of Graphite		0.75		
Bags of Silica		1		
Bags of Cement		3.5		
Bottom of Screen		~~79~~	14'	
Bags of #00 Sand		33		
Gallons of Crushed Limestone		33		
Bottom of #00 Sand		67.5'		
Bottom of Heater Can		76'		
Bottom of Borehole		76'		

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length	79	ft
Heater Can Diameter	3	in
Screen Length	10' ~~13.5~~	ft
Riser Length	6' 5.5	ft
Screen Diameter	1	in

Installation Method

Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	79'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	11:30	Reading: 0.0	PPM BZ
Time:	12:03	Reading: 0.0	PPM BZ
Time:	12:30	Reading: 0.0	PPM
Time:	13:00	Reading: 0.0	PPM BZ
Time:		Reading:	PPM

Notes: 0.0 IN BZ BUT SOIL & BORING READING < 500 ppm

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-05D

6b. Total well depth: 62 + 14 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-7-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-05D
Oversight: J. BAUER
Driller: C. FRANKLIN / W. WINBERLY

Date:
Job #: R23-104

1/2" Thermocouple pipe? No
Thermocouple Length: 61.75'

Ground Surface: 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 64.5 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 5.5 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	66°		
Borehole Diameter	7"		
Top of #00 Sand	2'		
Top of Screen	4'		
5 Gal Buckets of Graphite	0.75	1	
Bags of Silica	1	1	
Bags of Cement	3	3	
Bottom of Screen	14'		
Bags of #00 Sand	20		
Gallons of Crushed Limestone	20		5 BUCKETS
Bottom of #00 Sand	54.5'		
Bottom of Heater Can	62'		
Bottom of Borehole	62'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	64.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	0745	Reading:	0.0 PPM
Time:	0810	Reading:	0.0 PPM
Time:	0850	Reading:	0.0 PPM
Time:	0925	Reading:	0.0 PPM
Time:	0945	Reading:	0.0 PPM

Notes: PID SPIKE IN SOIL 31.0 PPM - 00 IN BZ

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-05E

6b. Total well depth: 26.5 + 36.6 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 31 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 1
Release date: 6/14/23
Approved by:

Well ID: HC-05E
Date: 6-25-23
Oversight: J. Baugh
Job #: R23-104
Driller: L. Franklin / W. Wimberly

		Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (In)		5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (In)		1.5' / 6"		
Angle from Horizontal		22°		
Borehole Diameter		7"		
Top of #00 Sand		21.5'		
Top of Screen		26.5'		
5 Gal Buckets of Graphite		2.5		
Bags of Silica		3.5		
Bags of Cement		11		
Bottom of Screen		34.5'	31' 6"	
Bags of #00 Sand		15		
Gallons of Crushed Limestone		15		
Bottom of #00 Sand		61.5'		
Bottom of Heater Can		76.5'		
Bottom of Borehole		76.5'		

1/2" Thermocouple pipe? No
Thermocouple Length 77.29'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80



Heater Can Length	81.5	ft
Heater Can Diameter	3	in
Screen Length	10	ft
Riser Length	29	ft
Screen Diameter	1	in

Installation Method

Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 81.5' — Constructed:

Depth to bottom of well [ft bTOC]

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 4:30	Reading: 0.0	PPM
Time: 5:30	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-06A

6b. Total well depth: 51.5+52.5 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-2-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-06A

Date: 7/6/23

Oversight: Josh Stern

Job #: R23-104

Driller: Casey Fountain / W. Winkler

1/2" Thermocouple pipe? 2.20

Thermocouple Length: 59.17'

Ground Surface 0.0'

Heater Can
Schedule 80

Heater Can Length: 60'
Heater Can Diameter: 3'

SIW
Riser Length: 51.5 ft
Screen Length: 2 ft

Screen Material
Stainless Steel
Fiberglass
Other:

SIW Slot Size: 10
Screen Diameter: 1"

Installation Method
Sonic
Direct Push
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick Up Height	30"	22.44	
SIW Stick Up Height	18"	~ 12"	
Angle from Horizontal	78°		
Borehole Diameter	7"		
5 Gal Buckets of Graphite	2.25		
Bags of Silica	3		
Bags of Cement	10		
Top of #00 Sand	30'		
Bags of Sand	7.5		
Gallons of Limestone	7.5		
Top of Screen	50.5'		
Bottom of Screen	52.5'		
Bottom of #00 Sand	54.5'		
Bottom of Borehole	57.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]:	60'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 14:10 pm	Reading: 0.0	PPM
Time: 15:00 pm	Reading: 0.0	PPM
Time: 8145	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-06B

6b. Total well depth: 37.5 + 22.5 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 36 Gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **HC-06B**
Oversight: J. Baugh
Driller: L. Frank / W. Kimberly
Date: 7-11-23
Job #: R23-104

1/2" Thermocouple pipe? Yes
Thermocouple Length: 87.67'

Ground Surface 0.0'

Heater Can: Schedule 80

Conductive HT Grout

Heater Can Length: 91 ft
Heater Can Diameter: 3 in
Screen Length: 17.5 ft
Riser Length: 7 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	34" / 30"	4	
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1' / 6"		
Angle from Horizontal	35°		
Borehole Diameter	7"		
Top of #00 Sand	3'		
Top of Screen	5'		
5 Gal Buckets of Graphite	1		
Bags of Silica	1.5		
Bags of Cement	4.5		
Bottom of Screen	22.5'		
Bags of #00 Sand	28		
Gallons of Crushed Limestone	28		
Bottom of #00 Sand	76.5'		
Bottom of Heater Can	87.5'		
Bottom of Borehole	87.5'	87.5	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 91' — Constructed:
Depth to bottom of well [ft bTOC]
if greater than or equal to 1ft less than designed alert the office
2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 7:30	Reading: 0.0	PPM
Time: 8:30	Reading: 0.0	PPM
Time: 9:30	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-06C

6b. Total well depth: 26 + 14 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 30 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Hold off till Utilities verified

Well ID: HC-06C
Date: 5-22-23 / 5-23-23
Oversight: Condor
Job #: R23-104
Driller: C. FRANKLIN / W. Wimberly

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: ~~75.92'~~

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 79 ft
Heater Can Diameter: 3 in
Screen Length: 10' ~~12.5~~ ft
Riser Length: 6' ~~8.5~~ ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
~~Hollow Stem Auger~~
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
– Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	48°	✓	
Borehole Diameter	7"		
Top of #00 Sand	2'		
Top of Screen	4'	4'	
5 Gal Buckets of Graphite	0.75		
Bags of Silica	1		
Bags of Cement	3.5		
Bottom of Screen	17.5'	14'	
Bags of #00 Sand	33		
Gallons of Crushed Limestone	33		
Bottom of #00 Sand	67.5'		
Bottom of Heater Can	76'		
Bottom of Borehole	76'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	79'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 16:15	5.28	Reading: 0.0	PPM
Time: 16:40	5.28	Reading: 0.0	PPM
Time: 9:00	5.23	Reading: 0.0	PPM
Time: 9:45		Reading: 0.0	PPM
Time: 10:10		Reading: 0.0	PPM

Notes: SET CAP @ 76' ~ 10:30
RIG JAW BLED OFF / FISHING

~~WAITED~~ 9:30 - 11:00

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-06D

6b. Total well depth: 62+14 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-2-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **HC-06D**
Date: 6.4.23
Oversight: J Bauch
Job #: R23-104
Driller: C. Franklin / W. Winberly

1/2" Thermocouple pipe?
Thermocouple Length: 61.75'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 64.5 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 5.5 ft
Screen Diameter: 1 in

Installation Method
~~Direct Push~~
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	66°		
Borehole Diameter	7"		
Top of #00 Sand	2'		
Top of Screen	4'		
5 Gal Buckets of Graphite	0.75	1	
Bags of Silica	1	1	
Bags of Cement	3	3	
Bottom of Screen	14'		
Bags of #00 Sand	20	14	
Gallons of Crushed Limestone	20		5 Buckets
Bottom of #00 Sand	54.5'		
Bottom of Heater Can	62'		
Bottom of Borehole	62'	To 2	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: Depth to bottom of well [ft bTOC]: 64.5' — Constructed:
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	Reading: 1.0 PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-06E

6b. Total well depth: 76.5+36.6 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 31 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 1
Release date: 6/14/23
Approved by:

Well ID: HC-06E
Date: 6-25-23
Oversight: J. Baugh
Job #: R23-104
Driller: C. Franklin / W. Wimberly

1/2" Thermocouple pipe? No
Thermocouple Length: 77.29'

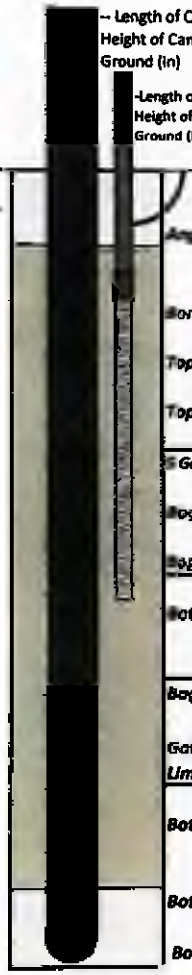
Ground Surface 0.0'

Heater Can
Schedule 80

Conductive HT Grout

Heater Can Length: 81.5 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 29 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
-- Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1.5' / 6"		
Angle from Horizontal	22°		
Borehole Diameter	7"		
Top of #00 Sand	21.5'		
Top of Screen	26.5'		
5 Gal Buckets of Graphite	2.5		
Bags of Silica	3.5		
Bags of Cement	11		
Bottom of Screen	~~34.5~~	36.5'	
Bags of #00 Sand	15		
Gallons of Crushed Limestone	15		
Bottom of #00 Sand	61.5'		
Bottom of Heater Can	76.5'		
Bottom of Borehole	76.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	81.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 12:30 pm	Reading: 0.0	PPM
Time: 1:30 pm	Reading: 0.0	PPM
Time: 2:30 pm	Reading: 0.0	PPM
Time: 3:20 pm	Reading: 0.0	PPM
Time:	Reading	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-38

6b. Total well depth: 36 + 13 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 15 gallons

_____ — _____

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-2-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-38
Date: 7-18-23
Oversight: J. Baugh
Job #: R23-104
Driller: Fred Dacey/W. Wimberly

1/2" Thermocouple pipe? Yes
Thermocouple Length ~~37.67'~~

Ground Surface 0.0'

Heater Can — Schedule 80
Conductive HT Grout

Heater Can Length 38.5 ft
Heater Can Diameter 3 in

Screen Length 10 ft
Screen Diamter 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"	30	
VEW Stick-Up Height	18"	18	
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	~~8.5~~	7	
Bags of Silica	0.75	2	
Bags of Cement	~~2.25~~	4	
Bottom of Screen	13'		
Bags of #00 Sand	10.5		
Gallons of Limestone	10.5		
Bottom of #00 Sand	30'		
Bottom of Heater Can	36'		
Bottom of Borehole	36'	36	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	38.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 9:30	Reading: 0.0	PPM
Time: 2:00	Reading: 0.0	PPM
Time: 12:00	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personalty abandoning well on his/her prope.ty)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-39

6b. Total well depth: 36 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 14 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-2-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

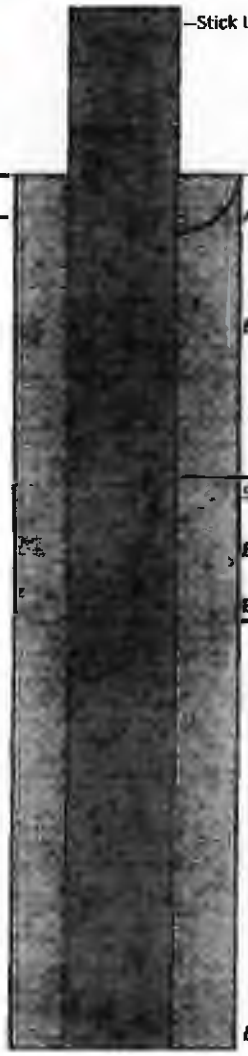
TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-39
Date: 7-11-23
Oversight: S. Baugh
Job #: R23-104
Driller: Fred Doose / W Winberly

		Design	Constructed (fill out if different)	Notes
Stick Up Height		24"	24	
1/2" Thermocouple pipe?				
Thermocouple Length	37.67'			
Ground Surface	0.0'			
Heater Can	Conductive HT Grout	Angle from Horizontal	90°	
Schedule 40		Borehole Diameter	6"	
Heater Can Length	38 ft	5 Gal Buckets of Graphite	1.75	
		Bags of Silica	2.5	
Heater Can Diameter	3 in	Bags of Cement	8.25	
Bottom of Heater Can			36'	
Bottom of Borehole			36'	36



Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	38'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-40

6b. Total well depth: 36 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 15 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-2-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-40
Date: 7-12-23
Oversight: J. Baugh
Job #: R23-104
Driller: Fred Dorsey/W. Wimberly

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	[redacted]			
Thermocouple Length	37.67'			
Stick Up Height		24"		
Ground Surface	0.0'			
Angle from Horizontal		90°		
Borehole Diameter		6"		
Heater Can Length	38 ft			
Heater Can Diameter	3 in			
5 Gal Buckets of Graphite		1.75		
Bags of Silica		2.5		
Bags of Cement		8.25		
Bottom of Heater Can		36'		
Bottom of Borehole		36'		

Heater Can — Schedule 40

Conductive HT Grout

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	38'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	10:30	Reading:	2.1 PPM
Time:	11:30	Reading:	1.9 PPM
Time:	12:15	Reading:	1.8 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: 11-41

6b. Total well depth: 36 + 13 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 15 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-2-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-41
Date: 7-12-23
Oversight: J. Baugh
Job #: R23-104
Driller: Fred Borse/W. Wimberly

1/2" Thermocouple pipe? No
Thermocouple Length: 37.67'

Ground Surface 0.0'

Heater Can: Schedule 80
Conductive HT Grout

Heater Can Length: 38.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"	23	
VEW Stick-Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5	1	
Bags of Silica	0.75	3	
Bags of Cement	2.25	4	
Bottom of Screen	13'		
Bags of #00 Sand	10.5		
Gallons of Limestone	10.5		
Bottom of #00 Sand	30'		
Bottom of Heater Can	36'		
Bottom of Borehole	36'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC]	38.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-43

6b. Total well depth: 36 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 15 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-43
Date: 7-7-23
Oversight:
Job #: R23-104
Driller: Fred. Darsey/Al Winberly

1/2" Thermocouple pipe?
Thermocouple Length: 37.67'

Ground Surface 0.0'

Heater Can
Schedule 40

Heater Can Length: 38 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"	25"	
Angle from Horizontal	90°		
Borehole Diameter	8"		
5 Gal Buckets of Graphite	1.75		
Bags of Silica	2.5		
Bags of Cement	8.25		
Bottom of Heater Can	36'		
Bottom of Borehole	36'	36'	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	38'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	7:00	Reading:	80 PPM
Time:	8:00	Reading:	80 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:
[redacted]
Yellow/Yellow

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-42

6b. Total well depth: 47 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 19 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-42
Date: 7-8-23
Oversight: D Phillips
Job #: R23-104
Driller: F. Dorge / W. Wimberly



	Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?			
Thermocouple Length	48.67'		
Stick Up Height	24"	22"	
Ground Surface	0.0'		
Angle from Horizontal	90°		
Borehole Diameter	6"		
Heater Can Length	49 ft		
Heater Can Diameter	3 in		
5 Gal Buckets of Graphite	2.5	1	
Bags of Silica	3.25	2	
Bags of Cement	10.75	4	
Bottom of Heater Can	47'		
Bottom of Borehole	47'	47'	

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 49' — Constructed:
Depth to bottom of well (ft bTOC)
if greater than or equal to 1ft less than designed alert the office
2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	11:00	Reading:	0.0 PPM
Time:	1:00	Reading:	0.0 PPM
Time:	2:50	Reading:	0.8 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:
Green/Green

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-45

6b. Total well depth: 36 + 13 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 15 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-45
Oversight:
Driller: Wimberly
Date: 7-7-23
Job #: R23-104

3/2" Thermocouple pipe?
Thermocouple Length: 37.67'

Ground Surface 0.0'

Heater Can — Conductive HT Grout

Schedule 80

Heater Can Length: 38.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"	24"	
VEW Stick-Up Height	18"	16"	
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.25		
Bottom of Screen	13'		
Bags of #00 Sand	10.5		
Gallons of Limestone	10.5		
Bottom of #00 Sand	30'		
Bottom of Heater Can	36'		
Bottom of Borehole	36'		

Post Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	38.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
Perform daily until depth to grout is 0ft.

Date	Depth to Grout (ft bTOC)

PID Log: Make/Model:

Time: 10:00	Reading: 2.0	PPM
Time: 11:00	Reading: 1.9	PPM
Time: 12:00	Reading: 1.8	PPM
Time: 1:00	Reading: 1.7	PPM
Time: 2:00	Reading: 0.0	PPM

Notes:
Yellow / Yellow

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-47

6b. Total well depth: 26 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 11 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-47
Date: 7-8-23
Oversight: D. Phillips
Job #: R23-104
Driller: F. Dorse / W. Wimberly

	Design	Constructed (fill out if different)	Notes
–Stick Up Height	24"	21"	
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.25		
Bags of Silica	1.75		
Bags of Cement	6		
Bottom of Heater Can	26'		
Bottom of Borehole	26'	26	

1/2" Thermocouple pipe? [illegible]
Thermocouple Length 27.67'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 40

Heater Can Length 28 ft

Heater Can Diameter 3 in

Installation Method
Direct Push
(Sonic)
Hollow Stem Auger
Mud Rotary
Other:



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 28' — Constructed:
Depth to bottom of well (ft bTOC)
if greater than or equal to 1ft less than designed alert the office
2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	7:00	Reading:	0.0 PPM
Time:	8:55	Reading:	0.0 PPM
Time:	9:57	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:
Red/Red

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-01A

6b. Total well depth: 58+52.5 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **HC-01A**

Date: 6/14/23

Oversight: Jeff Jfam

Job #: R23-104

Driller: Corey Frankhouser / W. Wimberly

		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	[redacted]			
Thermocouple Length	59.17'			
Heater Stick Up Height		30"	24"	
SIW Stick Up Height		18"		
Angle from Horizontal		78°		
Borehole Diameter		7"		
5 Gal Buckets of Graphite		2.25		
Bags of Silica		3		
Bags of Cement		10		
Top of #00 Sand		30'		
Bags of Sand		7.5		
Gallons of Limestone		7.5		
Top of Screen		50.5'		
Bottom of Screen		52.5'		
Bottom of #00 Sand		54.5'		
Bottom of Borehole		60'	58'	

Ground Surface 0.0'

Conductive HT Grout

Heater Can
Schedule 80

Heater Can Length: 60'
Heater Can Diameter: 3'

SIW
Riser Length: 51.5 ft
Screen Length: 2 ft

Screen Material
Stainless Steel
Fiberglass
Other:

SIW Slot Size: 10
Screen Diameter: 1"

Installation Method
(Sonic)
Direct Push
Hollow Stem Auger
Mud Rotary
Other:

Conductive High Temp Grout

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC]:	60'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 2130	Reading: 0.0 PPM
Time: 5:30	Reading: 0.0 PPM
Time: 4230	Reading: 0.0 PPM
Time: 0830	Reading: 0.0 PPM
Time: 0900	Reading: 0.0 PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-01B

6b. Total well depth: 87.5 + 23 **(ft.)**

6c. Borehole diameter: _____ **(in.)**

6d. Water level below ground surface: _____ **(ft.)**

6e. Outer casing length (if known): _____ **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): _____ **(ft.)**

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 35 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-01B
Date: 6-18-23
Oversight: Jeff Stone
Job #: R23-104
Driller: Corey Franklin / W. Winberly

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 87.67'

Ground Surface 0.0'

Heater Can — *Schedule 80*

Conductive HT Grout

Heater Can Length: 91 ft
Heater Can Diameter: 3 in
Screen Length: 20' ~~17.5~~ ft
Riser Length: 7 ft
Screen Diameter: 1 in

Installation Method
Direct Push
(Sonic)
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
– Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3.5' / 30"		
– Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1' / 6"	3'	
Angle from Horizontal	35°		
Borehole Diameter	7"		
Top of #00 Sand	3'	1'	
Top of Screen	5'	3'	
5 Gal Buckets of Graphite	1		
Bags of Silica	1.5		
Bags of Cement	4.5		
Bottom of Screen	~~20'~~	23'	
Bags of #00 Sand	28	26	
Gallons of Crushed Limestone	28	30	
Bottom of #00 Sand	76.5'		
Bottom of Heater Can	87.5'		
Bottom of Borehole	87.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	91'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 10:30	Reading: 0.0	PPM
Time: 11:30	Reading: 0.0	PPM
Time: 12:30	Reading: 0.0	PPM
Time: 1130	Reading: 0.0	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-01C

6b. Total well depth: 16 + 14 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 31 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM
a Cascade Company

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Hold off till Utilities Verified

Well ID: HC-01C
Oversight: Bill Condon
Driller: Cory F / W. Wimberly
Date: 5-17-23 / 5-18-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 75.92'

Ground Surface 0.0'

Heater Can — Schedule 80
Conductive HT Grout

Heater Can Length: 79 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: [redacted] ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3' / 30"		
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	48°		
Borehole Diameter	7"		
Top of #00 Sand	2'		
Top of Screen	4'	4'	
5 Gal Buckets of Graphite	0.75		
Bags of Silica	1		
Bags of Cement	3.5		
Bottom of Screen	17.5'	14'	
Bags of #00 Sand	33		
Gallons of Crushed Limestone	33		7 BUCKETS
Bottom of #00 Sand	67.5'		
Bottom of Heater Can	76'		
Bottom of Borehole	76'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	79'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]
5-17	

PID Log: Make/Model:

Time:	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes: SCREEN DROPPED AS PULLED OUT

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-01D

6b. Total well depth: 62 + 14 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **HC-01D**

Date: 5-23-23 | 5-24-23

Oversight: Condon

Job #: R23-104

Driller: C. FRANKLIN / W. Winberly

13:45 START

1/2" Thermocouple pipe? YES

Thermocouple Length: 61.75'

MOVED FROM HC-3D

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80



		Design	Constructed (fill out if different)	Notes
Heater Can Length	64.5 ft	2.5' / 30"		
Heater Can Diameter	3 in	0.5' / 6"		
Screen Length	10 ft	*Angle from Horizontal*	66°	
Riser Length	5.5 ft	*Borehole Diameter*	7"	✓
Screen Diameter	1 in	*Top of #0C Sand*	2'	
		Top of Screen	4'	4'
		5 Gal Buckets of Graphite	0.75	1
		Bags of Silica	1	1
		Bags of Cement	3	3
		Bottom of Screen	14'	14'
		Bags of #00 Sand	26.5	11
		Gallons of Crushed Limestone	26.5	5 BUCKETS
		Bottom of #00 Sand	54.5'	
		Bottom of Heater Can	62'	
		Bottom of Borehole	62'	62'

Installation Method

Direct Push

Sonic

Hollow Stem Auger

Mud Rotary

Other:

Post-Installation QC (to be performed 24hrs after installation)

	Design	Constructed
1) Confirm well is free of grout		
Depth to bottom of well (ft bTOC	64.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 7.0	5-23	Reading: 15.00	PPM
Time: 0.0		Reading: 12.02	PPM
Time: 0.0	5-24	Reading: 07.00	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes: WORKED ON RIG JAW 11:46

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees: (if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-01E

6b. Total well depth: 76.5 + 36.5 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 32 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM
a Colorado Company

ISTD Heater Boring Construction Detail

Revision #: 1
Release date: 6/14/23
Approved by:

Well ID: HC-01E
Oversight: J. Baugh
Driller: L. Franklin / W. Wimberly

Date: 6-6-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 77.29'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 81.5 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 29 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	5' / 30"		
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1.5' / 6"	2.5	
Angle from Horizontal	22°		
Borehole Diameter	7"		
Top of #00 Sand	21.5'		
Top of Screen	~~24.5'~~	26.5	
5 Gal Buckets of Graphite	2.75		
Bags of Silica	3.75		
Bags of Cement	12		
Bottom of Screen	~~41'~~	36.5	
Bags of #00 Sand	14		
Gallons of Crushed Limestone	14		
Bottom of #00 Sand	61.5'		
Bottom of Heater Can	76.5'		
Bottom of Borehole	76.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 81.5' — Constructed: ____
Depth to bottom of well [ft bTOC]
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-19-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees: (if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-02A

6b. Total well depth: 57.5 +13 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned:_____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 24 gal/0.15

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 1
Release date: 6/14/23
Approved by:

Well ID: HC-02A
Date: 6-15-23
Oversight: Jeff Stoen
Job #: R23-104
Driller: Cory Franklin / W. Winberly

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 57.17'

Heater Can: Schedule 80
Conductive HT Grout

Heater Can Length: 60 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 4.5 ft
Screen Diameter: 1 in

Installation Method
Direct Push
(Sonic)
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"	24	
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"	18	
Ground Surface	0.0'		
Angle from Horizontal	78°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	13'		
Bags of #00 Sand	19		
Gallons of Crushed Limestone	19		
Bottom of #00 Sand	50.5'		
Bottom of Heater Can	57.5'		
Bottom of Borehole	57.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well (ft bTOC)	60'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 14:00	Reading: 0.6	PPM
Time: 14:30	Reading: 1.6	PPM
Time: 15:00	Reading: 6.0	PPM
Time: 9:00	Reading: 40	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-02B

6b. Total well depth: 87.5+22.5 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement	36 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-02B
Date: 6-19-23
Oversight: Jeff Stone
Job #: R23-104
Driller: Cory Frantum / W. Winberly

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 87.67'

Ground Surface 0.0'

Heater Can — *Schedule 80*

Conductive HT Grout



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3.5' / 30"	2.5	
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1' / 6"	2	
Angle from Horizontal	35°		
Borehole Diameter	7"		
Top of #00 Sand	3'		
Top of Screen	5'		
5 Gal Buckets of Graphite	1		
Bags of Silica	1.5		
Bags of Cement	4.5		
Bottom of Screen	22.5'		
Bags of #00 Sand	28	24	
Gallons of Crushed Limestone	28	20	
Bottom of #00 Sand	76.5'		
Bottom of Heater Can	87.5'		
Bottom of Borehole	87.5'		

Heater Can Length	91	ft
Heater Can Diameter	3	in
Screen Length	17.5	ft
Riser Length	7	ft
Screen Diameter	1	in

Installation Method

Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: Depth to bottom of well (ft bTOC): 91' — Constructed:

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 12:00	Reading:	0.0	PPM
Time: 1:00	Reading:	0.0	PPM
Time: 2:00	Reading:	0.0	PPM
Time: 3:00	Reading:	0.0	PPM
Time: 4:00	Reading:	0.0	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-02C

6b. Total well depth: 76 + 14 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 31 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Hold off till Utilities verified

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-02C
Oversight: Bill Condon
Driller: Cory Franklin/W Wimberly
Date: 5-18 / 5-20
Job #: R23-104

	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	3' / 30"		
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	48°		
Borehole Diameter	7"	7"	
Top of #00 Sand	2'	2'	
Top of Screen	4'	4'	
5 Gal Buckets of Graphite	0.75		
Bags of Silica	1	✓	
Bags of Cement	3.5	✓	
Bottom of Screen	17.5'	14'	
Bags of #00 Sand	33	✓	
Gallons of Crushed Limestone	33	✓	
Bottom of #00 Sand	67.5'		
Bottom of Heater Can	76'		
Bottom of Borehole	76'	76'	

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 75.92'

Ground Surface: 0.0'

Heater Can: Schedule 80

Conductive HT Grout

Heater Can Length: 79 ft
Heater Can Diameter: 3 in
Screen Length: ~~13.5~~ 10 ft
Riser Length: ~~9.5~~ 6 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	79'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 16:05	Reading: 0.0	PPM
Time: 17:00	Reading: 0.0	PPM
Time: 17:25	Reading: 0.0	PPM
Time: 5-20-/ 0720	Reading: 0.0	PPM
Time: 0805	Reading: 0.0	PPM

Notes:

DRILLED TO DEPTH ON 5-18 -
RAN ON 5-19 - NO INSTALL/ WELDING
CLEAN OUT + INSTALL ON 5-20

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-02D

6b. Total well depth: 62 + 14 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

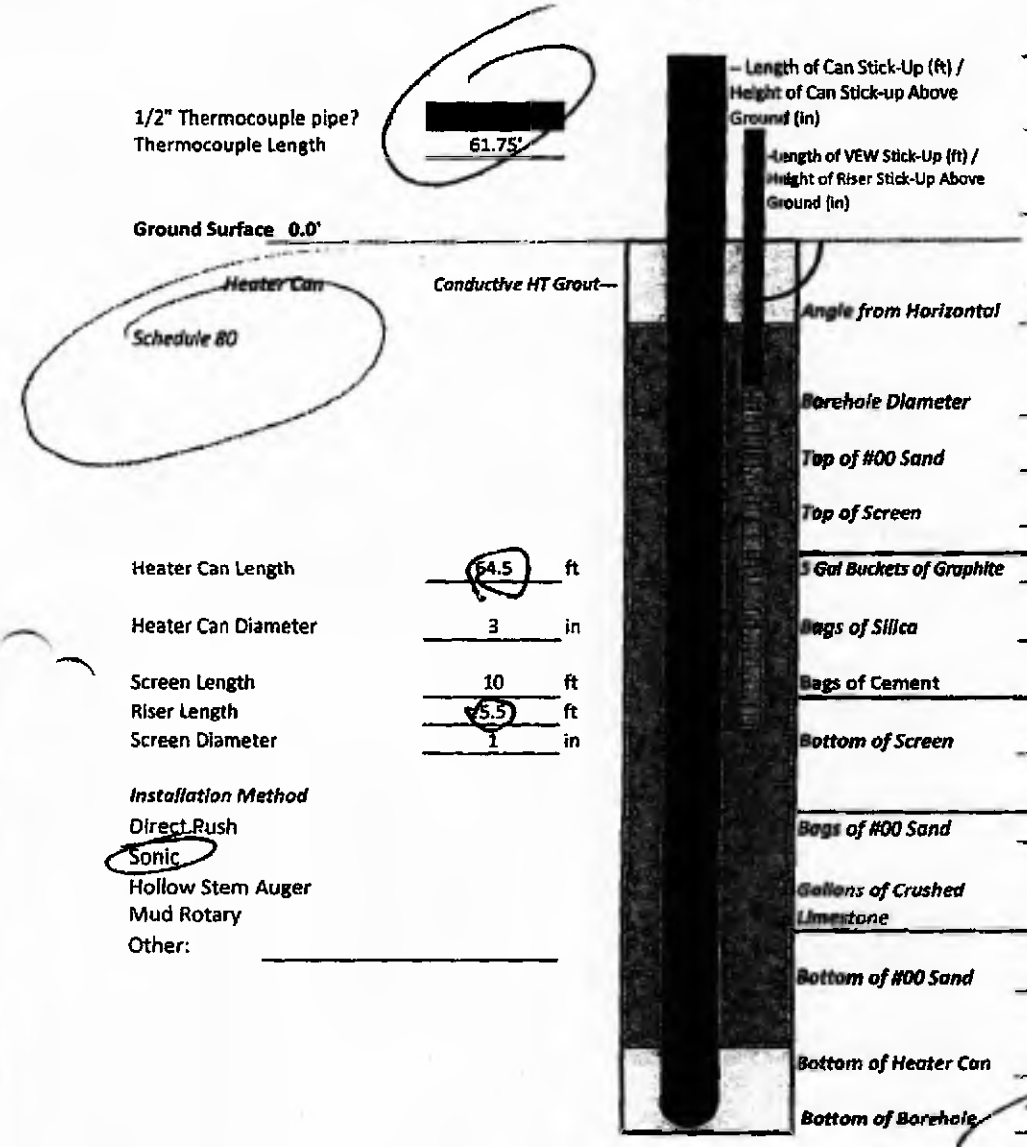
Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HC-02D
Oversight: J. Baugh
Driller: Cory F./W. Winberly
Date: 6-1-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 61.75'

Heater Can Length: 64.5 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 45.5 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	2.5' / 30"		
Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	0.5' / 6"		
Angle from Horizontal	66°		
Borehole Diameter	7"	7	
Top of #00 Sand	2'		
Top of Screen	4'	4'	
5 Gal Buckets of Graphite	0.75	1	
Bags of Silica	1	1	
Bags of Cement	3	3	
Bottom of Screen	14'	14	
Bags of #00 Sand	26.5	11	
Gallons of Crushed Limestone	26.5		5 BUCKETS
Bottom of #00 Sand	54.5'		
Bottom of Heater Can	62'		
Bottom of Borehole	62'	62	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	64.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 13:00	Reading: 2.0	PPM
Time: 13:30	Reading: 2.0	PPM
Time: 14:05	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HC-02E

6b. Total well depth: 16.5+36.5 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 32 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 1
Release date: 6/14/23
Approved by:

Well ID: HC-02E
Oversight: J. Baugh
Driller: L. Franklin / W. Wimberly
Date: 6-6-23
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 77.29'

Ground Surface 0.0'

Heater Can — *Schedule 80*

Conductive HT Grout

Heater Can Length: 81.5 ft
Heater Can Diameter: 3 in
Screen Length: 10 ft
Riser Length: 29 ft
Screen Diameter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
– Length of Can Stick-Up (ft) / Height of Can Stick-up Above Ground (in)	5' / 30"		
-Length of VEW Stick-Up (ft) / Height of Riser Stick-Up Above Ground (in)	1.5' / 6"	2.10	
Angle from Horizontal	22°		
Borehole Diameter	7"		
Top of #00 Sand	21.5'		
Top of Screen	~~24.5'~~	21.5	
5 Gal Buckets of Graphite	2.75		
Bags of Silica	3.75		
Bags of Cement	12		
Bottom of Screen	~~34.5'~~	36.5	
Bags of #00 Sand	14		
Gallons of Crushed Limestone	14		
Bottom of #00 Sand	61.5'		
Bottom of Heater Can	76.5'		
Bottom of Borehole	76.5'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC]	81.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 2:00	Reading: 0.0	PPM	6-6
Time: 2:58	Reading: 0.0	PPM	
Time: 4:04	Reading: 0.0	PPM	
Time: 4:03	Reading: 0.0	PPM	
Time: 10:15	Reading: 0.0	PPM	6-7-23
Notes: 11:55	0.2		

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-44

6b. Total well depth: 57 + 52 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

SIW Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-44
Oversight: R. Ramos
Driller: Braaden Griffin / W. Wimberly
Date: 09-11-23
Job #: R23-104

1/2" Thermocouple pipe? No
Thermocouple Length: 58.67'

Ground Surface 0.0'

Heater Can
Schedule 80

Heater Can Length: 59.5'
Heater Can Diameter: 3'

SIW
Riser Length: 51.5 ft
Screen Length: 2 ft
Screen Material
Stainless Steel
Fiberglass
Other:

SIW Slot Size: 10
Screen Diameter: 1"

Installation Method
Sonic
Direct Push
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick Up Height	30"		
SIW Stick Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
5 Gal Buckets of Graphite	2.25		
Bags of Silica	3		
Bags of Cement	10		
Top of #00 Sand	30'		
Bags of Sand	7.5		
Gallons of Limestone	7.5		
Top of Screen	50'		
Bottom of Screen	52'		
Bottom of #00 Sand	54'		
Bottom of Borehole	57'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]:	59.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 13:05	Reading: 0.0	PPM
Time: 16:45	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

Blue

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: T-1

6b. Total well depth: 81 + ? (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 9 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM
a Cascade Company

Temperature and Pressure Monitoring Point Construction Detail

Revision # 0
Release date 5/12/23
Approved by: SL

Well ID T-1

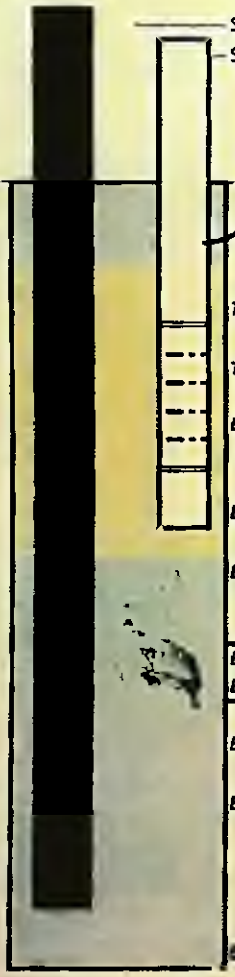
Hold off till Utilities verified

Date 7-19-23

Oversight ~~J. Dausch~~

Driller Lacy Franklin/W. Wimberly

Job # R23-104



	Design	Constructed (fill out if different)	Notes
Stick Up (TMP)	42"	42	
Stick Up (PMP)	30"		
Angle from Horizontal	38°		
Top of #00 Sand	3		
Top of PMP Screen	5		
Bags of #00 Sand	~~2.75~~	3	
Bottom of PMP Screen	8	7'	
Bottom of #00 Sand	10'		
Bags of Cement	~~2.5~~	12	
Bags of Silica	~~6.75~~	3	
Borehole Diameter	6		
Bottom of TMP Well	81'		
Bottom of Borehole	81'		

Pipe Diameter TMP: 1.5"
PMP: 1"
Borehole Diameter: 6"

Ground Surface 0.0'

HT Grout

~~Drilling Material~~
Carbon Steel
~~Other:~~

TMP Pipe Length 84.5'
PMP Riser Length 7.5'
PMP Screen Length ~~3~~ 2'

Screen Material
Stainless Steel
Other:

Slot Size 10

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of TMP [ft bTOC]:	84.5'	
Depth to bottom of PMP [ft bTOC]:	10.5'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP [ft bgs]	Depth to Grout, PMP [ft bgs]

PID Log: Make/Model:

Time: 7:30 am	Reading	0.0	PPM
Time: 8:30 am	Reading	0.0	PPM
Time: 9:00 am	Reading	0.0	PPM
Time:	Reading		PPM
Time:	Reading		PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: T-2

6b. Total well depth: 81+? (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 9 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM
a Cambic Company

Temperature and Pressure Monitoring Point Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SI

Well ID: TMP
Project: [illegible]
Date: 7-[illegible]-23
Drilled: [illegible]
Job #/Task: 104

Pipe Diameter - TMP: 1"
PMP: 1"
Borehole Diameter: 6"

Ground Surface: 0.0'

BF Grout

Casing Material
Carbon Steel
Other: _____

TMP Pipe Length: 64.5'
PMP Riser Length: 7.5'
PMP Screen Length: 5'

Screen Material
Stainless Steel
Other: _____

Slot Size: 10

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other: _____

Design	Constructed (ft bgs or ft amsl)	Notes
Stickup (TMP): 4'	44	
Stickup (PMP): 30"	3ft	
Angle from horizontal: 38°		
Top of #00 Sand: 3'		
Top of PMP Screen: 5'		
Bags of #00 Sand: 2.75	3	
Bottom of PMP Screen: 10'	7'	
Bottom of #00 Sand: 10'		
Bags of Cement: 2.55		
Bags of Silica: 6.75		
Bore Hole Diameter: 6"		
Bottom of TMP Well: 61'		
Bottom of Borehole: 61'		

Post-Installation QC (to be performed 72hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of TMP (ft bTOC):	64.5'	
Depth to bottom of PMP (ft bTOC):	10.5'	

If greater than or equal to 1ft less than assigned alert the office

2) Confirm grout plug reaches grouted surface
repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP (ft bgs)	Depth to Grout, PMP (ft bgs)

PID Log: Make/Model:

Time: 14:00	Reading: 0.0	PPM
Time: 15:00	Reading: 0.0	PPM
Time: 9:00 AM	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: T-3

6b. Total well depth: 21 + 5 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 2 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Temperature and Pressure Monitoring Point Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **T-3**

Date: 7-11-23

Oversight: J. Baugh

Driller: Fred Boss / W Wimberly

Job # R23-104

	Design	Constructed (fill out if different)	Notes
Stick Up (TMP)	30"	30"	
Stick Up (PMP)	24"	24"	
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of PMP Screen	3'		
Bags of #00 Sand	2.5		
Bottom of PMP Screen	5'		
Bottom of #00 Sand	7'		
Bags of Cement	4.75		
Bags of Silica	1.5		
Borehole Diameter	6"		
Bottom of TMP Well	21'		
Bottom of Borehole	21'	21	

Pipe Diameter TMP: 1.5"
PMP: 1"
Borehole Diameter: 6"

Ground Surface 0.0'

HT Grout

Casing Material
Carbon Steel
Other: _____

TMP Pipe Length 23.5'
PMP Riser Length 5'
PMP Screen Length 2'

Screen Material
Stainless Steel
Other. _____

Slot Size 10

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other: _____



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of TMP [ft bTOC]:	23.5'	
Depth to bottom of PMP [ft bTOC]:	7'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP [ft bgs]	Depth to Grout, PMP [ft bgs]

PID Log: Make/Model:

Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: T-5

6b. Total well depth: 67 + 5 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 6.5 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

[signature] — Signature of Certified Well Contractor or Well Owner

7-2-24 — Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Temperature and Pressure Monitoring Point Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: T-5

Date: 09-20-23

Oversight: R. RAMOS

Driller: B. GRIFFAS/W. Wimberly

Job # R23-104

Pipe Diameter TMP: 1.5"
PMP: 1"
Borehole Diameter: 6"

Ground Surface 0.0'

HT Grout

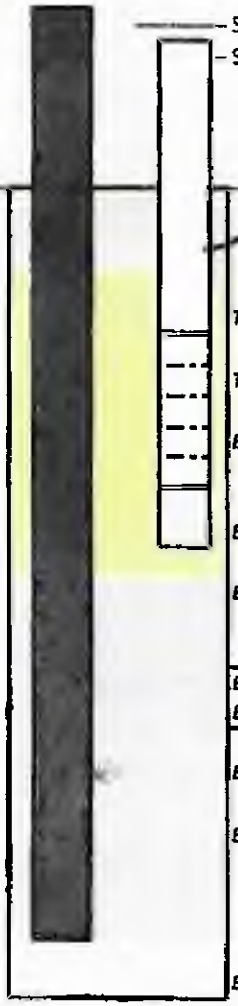
Casing Material
Carbon Steel
Other:

TMP Pipe Length 69.5'
PMP Riser Length 5'
PMP Screen Length 2'

Screen Material
Stoinless Steel
Other:

Slot Size 10

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up (TMP)	30"		
Stick Up (PMP)	24"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of PMP Screen	3'		
Bags of #00 Sand	2.5		
Bottom of PMP Screen	5'		
Bottom of #00 Sand	7'		
Bags of Cement	18		
Bags of Silica	5.75		
Borehole Diameter	6"		
Bottom of TMP Well	67'		
Bottom of Borehole	67'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of TMP [ft bTOC]:	69.5'	
Depth to bottom of PMP [ft bTOC]:	7'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout, TMP [ft bgs]	Depth to Grout, PMP [ft bgs]

PID Log: Make/Model:

Time: 09:15	Reading: 0.0	PPM
Time: 10:05	Reading: 0.2	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-1

6b. Total well depth: 83 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 6.4 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision # 0
Release date 5/12/23
Approved by SL

Hold off till utilities verified

Well ID M-1 Date 7-22-23

Oversight D. Phillips Job # R23-10a

Driller L. Franklin / W. Wimberly

Well Diameter 4"
Borehole Diameter 8"

Ground Surface 0.0'

HT Grout

Casing Material
Carbon Steel
Other

Riser Length 20 ft
Screen Length 65 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other

HT Grout

	Design	Constructed (fill out if different)	Notes
Stick Up Height	48"	60"	
Angle from Horizontal	38°		
Top of #00 Sand	14'		
Top of Screen	16'		
Bags of #00 Sand	42	40	
Bags of Cement	65	65	
Bags of Silica	2	2	
Borehole Diameter	8"		
Bottom of Sand	81'		
Bottom of Screen	81'		
Sump Length	2'		
Bottom of Sump	83'		
Bottom of Borehole	83'		

Post-Installation QC (to be performed 24hrs after installation)

	Design	Constructed
1) Confirm well is free of grout		
Depth to bottom of well [ft bTOC]:	87'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 9:06	Reading: 0.0	PPM
Time: 9:30	Reading: 0.0	PPM
Time: 10:00	Reading: 0.0	PPM
Time: 11:19	Reading: 0.0	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-2

6b. Total well depth: 83 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 63 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM
a Cascade Company

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Hold off fill
Utilities verified

Well ID: M-2
Date: 7-23-23
Oversight: D. Phillips
Job #: R23-104
Driller: L. Franklin / W. Wimberly

	Design	Constructed (fill out if different)	Notes
Well Diameter	4"		
Borehole Diameter	8"		
Stick Up Height	48"		
Angle from Horizontal	38°		
Top of #00 Sand	14'		
Top of Screen	16'		
Bags of #00 Sand	~~42~~	38	
Bags of Cement	6.5	6	
Bags of Silica	2	2	
Borehole Diameter	8"		
Bottom of Sand	81'		
Bottom of Screen	81'		
Sump Length	2'		
Bottom of Sump	83'		
Bottom of Borehole	83'		

Ground Surface 0.0'

HT Grout

Casing Material
Carbon Steel
Other:

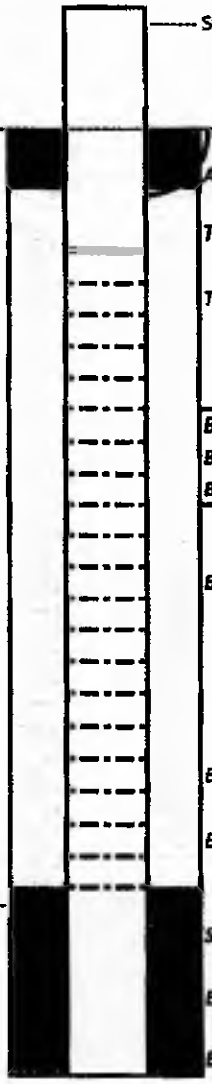
Riser Length 20 ft
Screen Length 65 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:

HT Grout



Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 87' — Constructed:
Depth to bottom of well [ft bTOC]:
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 1400	Reading: 0.0	PPM
Time: 1430	Reading: 0.0	PPM
Time: 15:30	Reading: 0.0	PPM
Time: 16:00	Reading: 0.0	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-3

6b. Total well depth: 83 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 63 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRA-MPV

Multi-Phase Extraction Well Construction Detail

Version # ___

Revision Date: 5/2023

Approved By: ___

Well ID: M-3

Date: 7-24-23

Oversight: J. Baugh

Job #: 923-1006

Driller: C. Franklin/W. Wimberly

		Design	Constructed (fill out if different)	Notes
Well Diameter	4"			
Borehole Diameter	8"			
Stick Up Height		4'	6.0'	
Ground Surface 0.0'				
HT Grout				
Angle from Horizontal		38°		
Top of #00 Sand		14'		
Top of Screen		16'		
Bags of #00 Sand		48	38	
Bags of Cement		6.5	6	
Bags of Silica		2	2	
Borehole Diameter		8"		
Bottom of Sand		81'		
Bottom of Screen		81'		
Sump Length		2'		
Bottom of Sump		83'		
Bottom of Borehole		83'		

Casing Material
Carbon Steel
Other: ___

Riser Length 20 *ft*
Screen Length 65 *ft*

Screen Material
Stainless Steel
Fiberglass
PVC
Other: ___

Slot Size 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other: ___

HT Grout ---

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout Design: 87' Constructed: ___

Depth to bottom of well [ft bTOC]:

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-4

6b. Total well depth: 83 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 65 gallons.

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Hold off till utilities verified

Well ID: M-4
Date: 7-21-23
Oversight: D. Phillips
Job #: R23-104
Driller: CFranklin / W. Wimberly

		Design	Constructed (fill out if different)	Notes
Well Diameter	4"			
Borehole Diameter	8"			
Stick Up Height		~~4'~~	4'	
Ground Surface	0.0'			
HT Grout				
Angle from Horizontal		38°		
Top of #00 Sand		14'		
Top of Screen		16'		
Bags of #00 Sand		~~42~~	~~36~~	36
Bags of Cement		6.5		
Bags of Silica		2		
Borehole Diameter		8"		
Bottom of Sand		81'		
Bottom of Screen		81'		
HT Grout				
Sump Length		2'		
Bottom of Sump		83'		
Bottom of Borehole		83'		

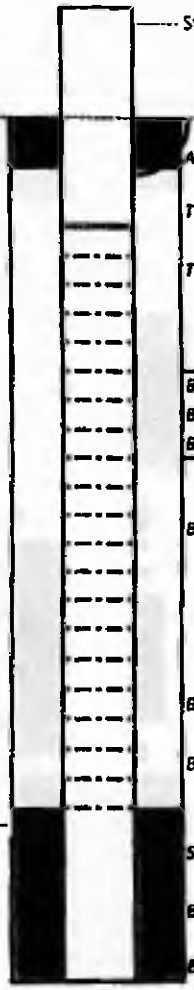
~~Casing Material~~
Carbon Steel
Other:

Riser Length: 20 ft
Screen Length: 65 ft

~~Screen Material~~
Stainless Steel
Fiberglass
PVC
Other:

Slot Size: 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC):	82'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 9:30 am	Reading:	0.0	PPM
Time: 9:30 am	Reading:	0.8	PPM
Time: 10:30 am	Reading:	0.8	PPM
Time: 11:30 am	Reading:	0.8	PPM
Time:	Reading:		PPM

Notes:
38°

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-5

6b. Total well depth: 22 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement	18 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision # 0
Release date 5/12/23
Approved by SL

Well ID **M-5**

Date 7-19-23

Oversight J. Baugh

Driller Fred Borge/W. Wimberly

Job # R23.104

Well Diameter 4"
Borehole Diameter 8"

Coding Material
Carbon Steel
Other:

Riser Length 6 ft
Screen Length 17 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	36"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	12	10	
Bags of Cement	1.25	1.25	
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	20'		
Bottom of Screen	20'		
Sump Length	2'		
Bottom of Sump	22'		
Bottom of Borehole	22'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC):	25'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	7:30am	Reading:	0.0 PPM
Time:	8:30am	Reading:	0.0 PPM
Time:	9:48am	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-6

6b. Total well depth: 32 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 25 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM
a Cascade Company

Multi-Phase Extraction Well
Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **M-6**
Date: 7-23-23
Oversight: R. Phillips
Driller: E. Porse / W. Wimberly
Job #: R23-104

Well Diameter: 4"
Borehole Diameter: 8"

Ground Surface 0.0'

HT Grout

Casing Material
Carbon Steel
Other:

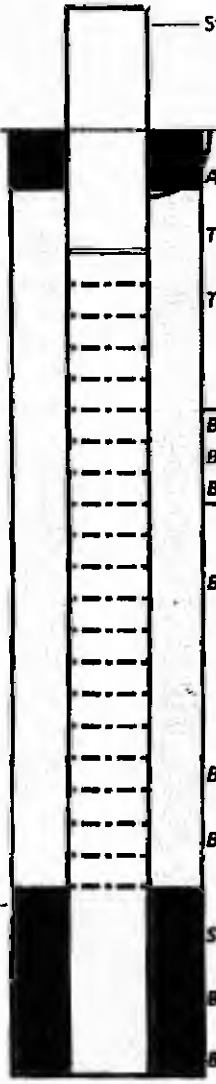
Riser Length 6 ft
Screen Length 27 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:

HT Grout



	Design	Constructed (fill out if different)	Notes
Stick Up Height	36"		
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	18.25	18	
Bags of Cement	1.25	1	
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	30'		
Bottom of Screen	30'		
Sump Length	2'		
Bottom of Sump	32'		
Bottom of Borehole	32'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 35' / Constructed: _____
Depth to bottom of well [ft bTOC]:
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	9:00	Reading:	0.0	PPM
Time:	9:30	Reading:	0.0	PPM
Time:	10:00	Reading:	0.0	PPM
Time:	10:30	Reading:	0.0	PPM
Time:		Reading:		PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-8

6b. Total well depth: 51.5 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 39 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: D
Release date: 5/12/23
Approved by: SL

Well ID: M-8
Date: 09-12-23
Oversight: R. Ramos
Job #: R23-104
Driller: Beander GRIFFAS / W. Wimberly

	Design	Constructed (fill out if different)	Notes
Well Diameter	4"		
Borehole Diameter	8"		
Stick Up Height	36"	24"	
Angle from Horizontal	90°		
Top of #00 Sand	1'		
Top of Screen	3'		
Bags of #00 Sand	30.75		
Bags of Cement	1.25		
Bags of Silica	0.5		
Borehole Diameter	8"		
Bottom of Sand	50'		
Bottom of Screen	50'		
Sump Length	2'		
Bottom of Sump	52'		
Bottom of Borehole	52'	51'6	

Ground Surface 0.0'

HT Grout

Casing Material
Carbon Steel
Other:

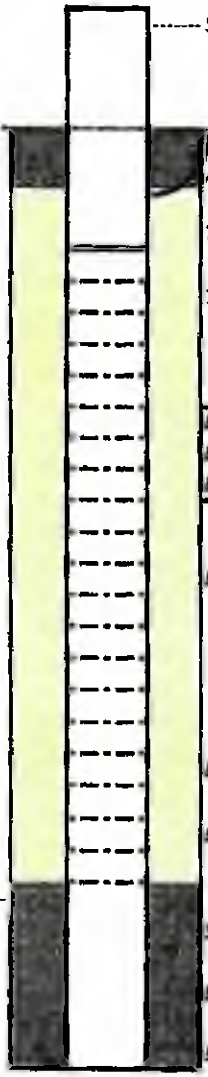
Riser Length: 6 ft
Screen Length: 47 ft (53)

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size: 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:

HT Grout



Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC]:	55'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	10:10	Reading:	0.7 PPM
Time:	11:15	Reading:	0.7 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees: (if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: M-9

6b. Total well depth: 52 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 39 gal/ons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

Multi-Phase Extraction Well Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID **M-9**

Date 09-19-23

Oversight R. RAMOS

Driller B. GRIFFIS/W. Wimberly

Job # R23-104

		Design	Constructed (fill out if different)	Notes
Well Diameter	4"			
Borehole Diameter	8"			
Stick Up Height		36"		
Ground Surface	0.0'			
HT Grout				
Angle from Horizontal		90°		
Top of #00 Sand		1'		
Top of Screen		3'		
Bags of #00 Sand		30.75		
Bags of Cement		1.25		
Bags of Silica		0.5		
Borehole Diameter		8"		
Bottom of Sand		50'		
Bottom of Screen		50'		
HT Grout				
Sump Length		2'		
Bottom of Sump		52'		
Bottom of Borehole		52'		

Casing Material
Carbon Steel
Other: PVC

Riser Length 6 ft
Screen Length 47 ft

Screen Material
Stainless Steel
Fiberglass
PVC
Other:

Slot Size 10

Installation Method
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: 55' — Constructed:
Depth to bottom of well (ft bTOC):
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft bgs

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 07:55	Reading: 0.1	PPM
Time: 09:00	Reading: 0.1	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HA-01

6b. Total well depth: 27 +13.5 **(ft.)**

6c. Borehole diameter: _____ **(in.)**

6d. Water level below ground surface: _____ **(ft.)**

6e. Outer casing length (if known): _____ **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): _____ **(ft.)**

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 13 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HA-01
Date: 7-8-23
Oversight: D Phillips
Job #: R23-104
Driller: L. Franklin / W. Winberly

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 28.71'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 29.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"	24"	
VEW Stick-Up Height	18"	18"	
Angle from Horizontal	73°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3.5'		
5 Gal Buckets of Graphite	0.5	.25	
Bags of Silica	0.75	2	
Bags of Cement	2.25	3	
Bottom of Screen	13.5'	13.5	
Bags of #00 Sand	7		
Gallons of Limestone	7		
Bottom of #00 Sand	21'	21'	
Bottom of Heater Can	27'		
Bottom of Borehole	27'	27'	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	29.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	3:00	Reading:	0.0 PPM
Time:	4:00	Reading:	0.2 PPM
Time:	4:23	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:
62°

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: HA-02

6b. Total well depth: 29.5+14.5 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 13 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: HA-02
Date: 7-2-23
Oversight:
Driller: L. Franklin/W. Wimberly
Job #: R23-104

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 31.25'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length: 32 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 1 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"	21	
VEW Stick-Up Height	18"	21	
Angle from Horizontal	62°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	4.5'		
5 Gal Buckets of Graphite	0.5		
Bags of Silica	0.75		
Bags of Cement	2.75		
Bottom of Screen	14.5'		
Bags of #00 Sand	7.5		
Gallons of Limestone	7.5		
Bottom of #00 Sand	22.5'		
Bottom of Heater Can	29.5'		
Bottom of Borehole	29.5'	29.5'	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	32'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 3:30	Reading: 0.0	PPM
Time: 4:30	Reading: 0.0	PPM
Time: 7:00	Reading: 0.0	PPM
Time: 8:00	Reading:	PPM
Time:	Reading:	PPM

Notes: [redacted] 73° Orange

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-2

6b. Total well depth: 47 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 19 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-2
Date: 7-24-23
Oversight: D. Phillips
Job #: R23-104
Driller: F. Dorse/W. Winterly



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	2.5	1	
Bags of Silica	3.25	2	
Bags of Cement	10.75	10	
Bottom of Heater Can	47'		
Bottom of Borehole	47'		

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 48.67'

Ground Surface: 0.0'

Heater Can — Conductive HT Grout

Schedule 40

Heater Can Length: 49 ft

Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	49'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	9:30	Reading:	0.0 PPM
Time:	9:30	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-3

6b. Total well depth: 26 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned:_____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 13 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-3
Date: 7-24-23
Oversight: D. Phillips
Job #: R23-104
Driller: F. Darse / W. Winberly

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 27.67'

Ground Surface 0.0'

Heater Can: Schedule 40
Heater Can Length: 28 ft
Heater Can Diameter: 3 in

Conductive HT Grout---

[redacted]

–Stick Up Height

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.25	1	
Bags of Silica	1.75	1	
Bags of Cement	6		
Bottom of Heater Can	26'		
Bottom of Borehole	26'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: — Constructed: —
Depth to bottom of well (ft bTOC — Design: 28' — Constructed: —
if greater than or equal to 1ft less than designed alert the office
2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 10:00	Reading: 0.0	PPM
Time: 11:03	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-5

6b. Total well depth: 73 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 30 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-5
Oversight: R. Ramos.
Driller: B. Griffas/W. Wimberly
Date: 09-19-23
Job #: R23-104

1/2" Thermocouple pipe? Yes
Thermocouple Length: 74.57'

Ground Surface 0.0'

Heater Can — Schedule 40

Conductive HT Grout

Heater Can Length: 75 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	3.75		
Bags of Silica	5.25		
Bags of Cement	16.75		
Bottom of Heater Can	73'		
Bottom of Borehole	73'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	75'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	13:15	Reading	0.2 PPM
Time:	14:35	Reading	0.9 PPM
Time:		Reading	PPM
Time:		Reading	PPM
Time:		Reading	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-6

6b. Total well depth: 73 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 30 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID H-6

Date 09-12-23 / 09-13-2

Oversight R. Romo

Job # R23-104

Driller Beaudet Griffas / W. Wimberly

	Design	Constructed (fill out if different)	Notes
–Stick Up Height	24"		
1/2" Thermocouple pipe?	No		
Thermocouple Length	74.67'		
Ground Surface 0.0'			
Heater Can			
Schedule 40			
Conductive HT Grout			
Angle from Horizontal	90°		
Borehole Diameter	6"		
Heater Can Length	75 ft		
Heater Can Diameter	3 in		
5 Gal Buckets of Graphite	3.75		
Bags of Silica	5.25		
Bags of Cement	16.75		
Bottom of Heater Can	73'		
Bottom of Borehole	73'		

Installation Method

Direct Push

Sonic

Hollow Stem Auger

Mud Rotary

Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	75'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	16:15	Reading:	0.1 PPM
Time:	02:15	Reading:	0.1 PPM
Time:	09:00	Reading:	0.1 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-10

6b. Total well depth: 36 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 17 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: **H-10**
Date: 7-23-23
Oversight: D. Phillips
Job #: R23-104
Driller: F. Dorse / W. Kimberly

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 37.67'



Schedule 40

Heater Can Length: 38 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.75	1	
Bags of Silica	2.5	2	
Bags of Cement	8.25	4	
Bottom of Heater Can	36'		
Bottom of Borehole	36'		

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well [ft bTOC	38'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	11:30	Reading:	0.0 PPM
Time:	13:00	Reading:	0.0 PPM
Time:	13:20	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-11

6b. Total well depth: 36 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 16 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

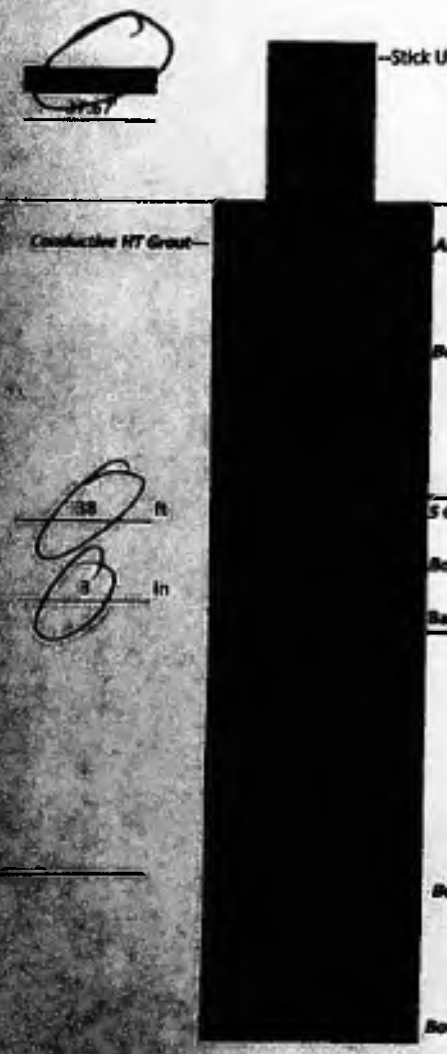
10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-11
Date: 7-19-23
Oversight: J. Baugh
Job #: R23-104
Driller: Fred Berse/W. Winberly



	Design	Constructed (fill out if different)	Notes
--Stick Up Height	24"	24"	
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.75	1	
Bags of Silica	2.5	2	
Bags of Cement	8.25	4	
Bottom of Heater Can	35'		
Bottom of Borehole	36'		

PID Log: Make/Model:

Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-12

6b. Total well depth: 26 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 12 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-12
Oversight: J. Baugh
Driller: Fred D. / Wilderly

Date: 7-11-23
Job #: R23-104

1/2" Thermocouple pipe? Yes
Thermocouple Length: 27.67'

Ground Surface 0.0'

Heater Can
Schedule 40

Heater Can Length: 28 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
~~Sonic~~
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"	22.5'	22' 6"
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.25		
Bags of Silica	1.75		
Bags of Cement	6		
Bottom of Heater Can	26'		
Bottom of Borehole	26'	26	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	28'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6.20.24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546

Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-13

6b. Total well depth: 26 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 12 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-13
Oversight: D. Phillips
Driller: E. Porse / W. Wimberly

Date: 7-10-23
Job #: R23-104

1/2" Thermocouple pipe? No
Thermocouple Length: 27.67'

Ground Surface 0.0'

Heater Can
Schedule 40

Heater Can Length: 28 ft

Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"	34"	
Angle from Horizontal	90°		
Borehole Diameter	6"	6"	
5 Gal Buckets of Graphite	1.25	1	
Bags of Silica	1.75	2	
Bags of Cement	6	4	
Bottom of Heater Can	28		
Bottom of Borehole	26'	26'	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout — Design: Depth to bottom of well (ft bTOC): 28' — Constructed:
if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	9:56	Reading:	0.0 PPM
Time:	10:30	Reading:	0.6 PPM
Time:	11:00	Reading:	8.6 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:
Red / Red

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-14

6b. Total well depth: 26+13 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 12 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-14
Date: 7-10-23
Oversight: D. Phillips
Job #: R23-104
Driller: E, Darcy / W. Wimberly

1/2" Thermocouple pipe? No
Thermocouple Length 27.67'

Ground Surface 0.0'

Heater Can — *Conductive HT Grout*

Schedule 80

Heater Can Length 28.5 ft
Heater Can Diameter 3 in

Screen Length 10 ft
Screen Diamter 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	36"	22.5	
VEW Stick-Up Height	~~48~~	16"	
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5	1	
Bags of Silica	0.75	3	
Bags of Cement	2.25	4	
Bottom of Screen	13'		
Bags of #00 Sand	6.5		
Gallons of Limestone	6.5		
Bottom of #00 Sand	20'		
Bottom of Heater Can	26'		
Bottom of Borehole	26'	26'	

Post-Installation QC (to be performed 24hrs after Installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	28.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 1:30	Reading: 0.0	PPM
Time: 2:15	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

Red / [redacted]

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-15

6b. Total well depth: 26 + 13 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____(ft.)

6e. Outer casing length (if known): _____(ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 12 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

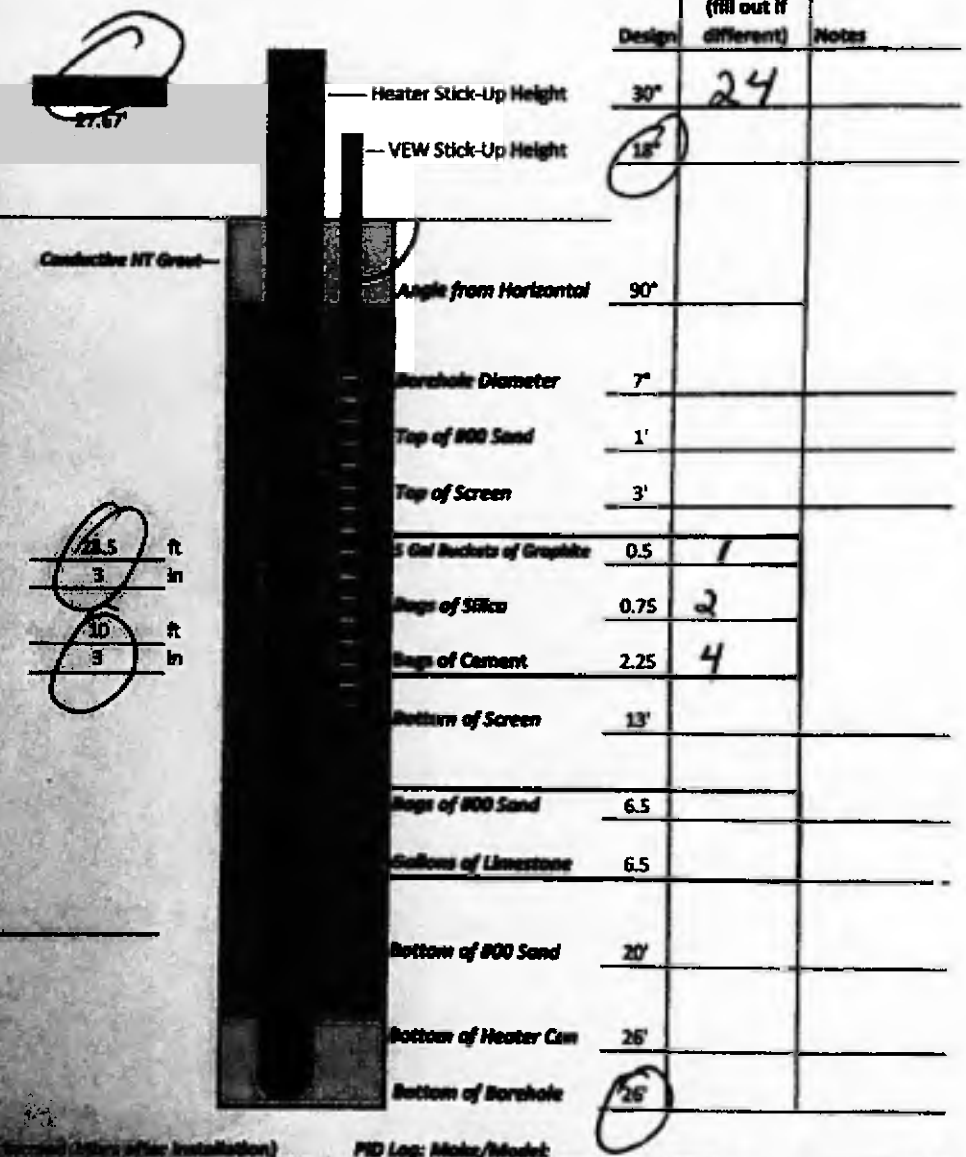
10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-15
Date: 7-19-23
Oversight: J. Baugh
Job #: R23-104
Driller: Fred Dorsey / W. Winberly



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"	24	
VEW Stick-Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5	1	
Bags of Silica	0.75	2	
Bags of Cement	2.25	4	
Bottom of Screen	13'		
Bags of #00 Sand	6.5		
Gallons of Limestone	6.5		
Bottom of #00 Sand	20'		
Bottom of Heater Can	26'		
Bottom of Borehole	26'		

28.5 ft 3 in
30 ft 3 in

Design: 28.5'
Constructed:

alert the office

PID Log: Make/Model:

Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM
Time:	Reading: PPM

Notes:

WELL ABANDONMENT RECORD

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-30-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-16

6b. Total well depth: 26 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 12 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-16
Date: 7-11-23
Oversight: J. Baugh
Job #: R23-104
Driller: Ecco Borings / W. Wimberly

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 27.67'

Ground Surface 0.0'

Heater Can
Schedule 40

Conductive HT Grout

Heater Can Length: 28 ft

Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"	24	
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.25		
Bags of Silica	1.75		
Bags of Cement	6		
Bottom of Heater Can	26		
Bottom of Borehole	26'	26	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well (ft bTOC	28'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:
Red/Red

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-17

6b. Total well depth: 26 + 13 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 13 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-17
Date: 7-10-23
Oversight: D Phillips
Job #: R23-104
Driller: F. Dorsey/W. Wimberly

1/2" Thermocouple pipe? [redacted]
Thermocouple Length: 27.67'

Heater Can Length: 28.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"	24	
VEW Stick-Up Height	18"	18	
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5	1 Bucket	
Bags of Silica	0.75		
Bags of Cement	2.25	1	
Bottom of Screen	13'	13'	
Bags of #00 Sand	6.5	6	
Gallons of Limestone	6.5	3	
Bottom of #00 Sand	20'		
Bottom of Heater Can	26'		
Bottom of Borehole	26'	26'	

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	28.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time: 12:30	Reading: 0.6	PPM
Time: 13:30	Reading: 0.0	PPM
Time: 7:30	Reading: 0.0	PPM
Time: 8:30	Reading: 0.0	PPM
Time:	Reading:	PPM

Notes:
[redacted]/Rel

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-18

6b. Total well depth: 36 (ft.)

6c. Borehole diameter: _____(in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____(ft.)

6g. Screen length (if known): _____(ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____(gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 15 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

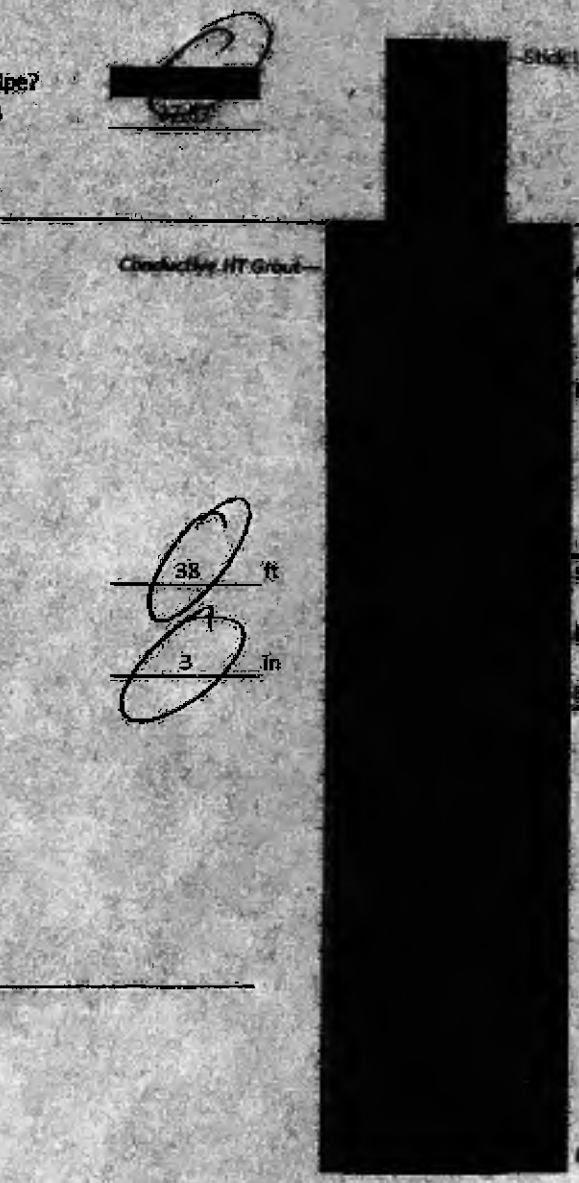
10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM
a Cascadia Company

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-38
Date: 7-20-23
Oversight: S. Bourgeois
Driller: E. Davis / Wilmberley
Job #: [redacted]



	Design	Constructed (fill out if different)	Notes
Stick Up Height	24"		
Angle from Horizontal	90°		
Borehole Diameter	6"		
5 Gal Buckets of Graphite	1.75	1	
Bags of Silica	2.5	2	
Bags of Cement	8.25	4	
Bottom of Heater Can	36'		
Bottom of Borehole	36'		

1/2" Thermocouple pipe? [redacted]
Thermocouple Length [redacted]

Heater Can Length: 38 ft
Heater Can Diameter: 3 in

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout

	Design	Constructed
Depth to bottom of well (ft bTOC	38'	

If greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface
repeat daily until depth to grout is 0ft.

Date	Depth to Grout (ft bgs)

PID Log: Make/Model:

Time: 9:00 a.m.	Reading: 0.0	PPM
Time: 10:00 a.m.	Reading: 0.0	PPM
Time: 11:20 a.m.	Reading: 0.0	PPM
Time:	Reading:	PPM
Time:	Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☐ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ■ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ■ Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-19

6b. Total well depth: 47 + 13 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- ☐ Neat Cement Grout
- ☐ Bentonite Chips or Pellets
- ☐ Sand Cement Grout
- ☐ Dry Clay
- ☐ Concrete Grout
- ☐ Drill Cuttings
- ☐ Specialty Grout
- ☐ Gravel
- ☐ Bentonite Slurry
- ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 20 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-19
Date: 7-23-23
Oversight: D. Phillips
Job #: R23-104
Driller: E. Perse / Ed Wimberly

1/2" Thermocouple pipe? [illegible]
Thermocouple Length: 48.67'

Heater Can: Schedule 80

Heater Can Length: 49.5 ft
Heater Can Diameter: 3 in

Screen Length: 10 ft
Screen Diamter: 3 in

Installation Method
- Direct Push
- Sonic
- Hollow Stem Auger
- Mud Rotary
- Other:



	Design	Constructed (fill out if different)	Notes
Heater Stick-Up Height	30"		
VEW Stick-Up Height	18"		
Angle from Horizontal	90°		
Borehole Diameter	7"		
Top of #00 Sand	1'		
Top of Screen	3'		
5 Gal Buckets of Graphite	0.5	1	
Bags of Silica	0.75	1	
Bags of Cement	2.75	2	
Bottom of Screen	13'		
Bags of #00 Sand	14.5		
Gallons of Limestone	14.5	14	
Bottom of #00 Sand	40'		
Bottom of Heater Can	47'		
Bottom of Borehole	47'		

Post-installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC]	49.5'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	14:00	Reading:	0.0 PPM
Time:	14:30	Reading:	0.0 PPM
Time:	15:00	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

WELL ABANDONMENT RECORD

For Internal Use ONLY:

1. Well Contractor Information:

David Wilcox

Well Contractor Name (or well owner personally abandoning well on his/her property)

3223-A

NC Well Contractor Certification Number

Cascade Drilling

Company Name

2. Well Construction Permit #: N/A CERCLA site

List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	■Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	■Other (explain under 7g)

4. Date well(s) abandoned: 6-20-24

5a. Well location:

ABC One Hour Cleaner, Superfund Site — Facility/Owner Name

NC D024644494 — Facility ID# (if applicable)

2127 Lejeune Blvd, Jacksonville NC, 28546 — Physical Address, City, and Zip

Onslow — County

439613047818 — Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34.741400 N 77.366600 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: H-35

6b. Total well depth: 36 (ft.)

6c. Borehole diameter: _____ (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Portland Cement — 16 gallons

7g. Provide a brief description of the abandonment procedure:

Tremie grout

* see attached

8. Certification:

Signature of Certified Well Contractor or Well Owner — Date: 7-2-24

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

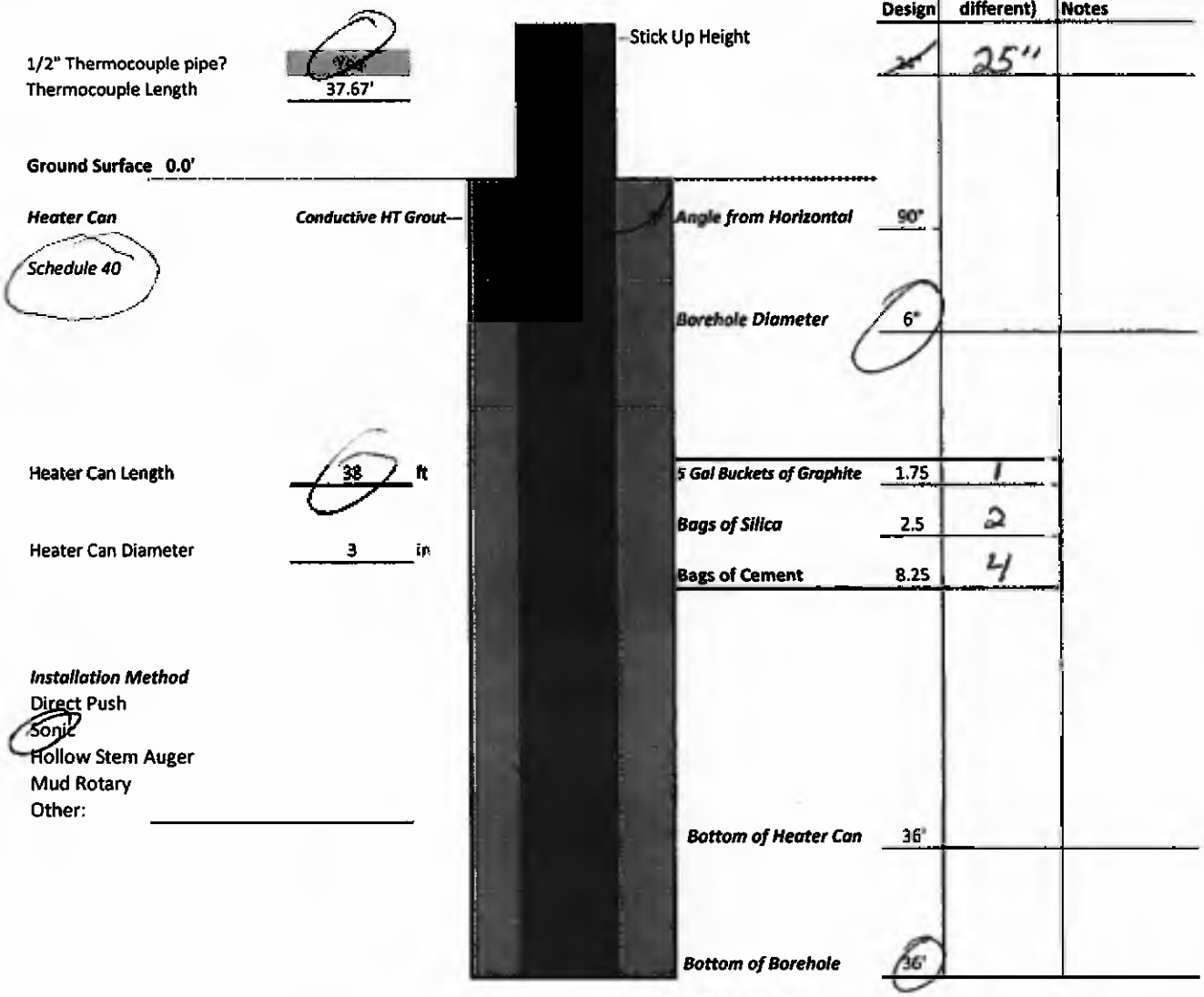
10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

TERRATHERM

ISTD Heater Boring Construction Detail

Revision #: 0
Release date: 5/12/23
Approved by: SL

Well ID: H-35
Date: 7-23-23
Oversight: D. Phillips
Job #: R23-104
Driller: F. Dorse / W. Wimberly



		Design	Constructed (fill out if different)	Notes
1/2" Thermocouple pipe?	Yes			
Thermocouple Length	37.67'			
Stick Up Height		24"	25"	
Angle from Horizontal		90°		
Borehole Diameter		6"		
Heater Can Length	38 ft			
Heater Can Diameter	3 in			
5 Gal Buckets of Graphite		1.75	1	
Bags of Silica		2.5	2	
Bags of Cement		8.25	4	
Bottom of Heater Can		36'		
Bottom of Borehole		36'		

Installation Method
Direct Push
Sonic
Hollow Stem Auger
Mud Rotary
Other:

Post-Installation QC (to be performed 24hrs after installation)

1) Confirm well is free of grout	Design	Constructed
Depth to bottom of well [ft bTOC	38'	

if greater than or equal to 1ft less than designed alert the office

2) Confirm grout plug reaches ground surface

repeat daily until depth to grout is 0ft.

Date	Depth to Grout [ft bgs]

PID Log: Make/Model:

Time:	8:00	Reading:	0.0 PPM
Time:	8:30	Reading:	0.0 PPM
Time:	9:00	Reading:	0.0 PPM
Time:		Reading:	PPM
Time:		Reading:	PPM

Notes:

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Appendix H

Site Restoration Photograph Log

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SITE RESTORATION PHOTOGRAPH LOG



2127 Lejeune Boulevard, paving restoration complete. Looking northeast from Lejeune Blvd.



2127 Lejeune Boulevard, paving restoration complete. Looking south towards Lejeune Boulevard.



2127 Lejeune Boulevard, paving restoration complete. Looking west from Major's towards SVE shed.



2127 Lejeune Boulevard, paving restoration complete. Looking south towards Lejeune Boulevard.



2127 Lejeune Boulevard, paving restoration complete. Looking east towards Major's.



342 Liberty Drive, gravel and seeding restoration complete. Looking south from Liberty Drive towards 2127 Lejeune Boulevard.

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Appendix I

Metes and Bounds Survey

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I, CHARLES F. RIGGS, PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN DEED BOOK SEE TITLE SOURCES LISTED): THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS BROKEN LINES AND DRAWN FROM INFORMATION FOUND IN DEED BOOK_____ PAGE_____; THAT THE RATIO OF PRECISION AS CALCULATED BY LATITUDES AND DEPARTURES IS 1:10,000+: THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED. WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS_____ DAY OF_____ A.D. 2024

PRELIMINARY PLAT
NOT FOR RECORDATION,
CONVEYANCES OR SALES

CHARLES F. RIGGS, PROFESSIONAL LAND SURVEYOR NO. L-2981

THIS IS TO CERTIFY THAT THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE "X" WHICH IS NOT A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, AND THE NATIONAL FLOOD INSURANCE PROGRAM. COMMUNITY PANEL NUMBER 370178 3720439800J, NOVEMBER 3, 2005.

I, CHARLES F. RIGGS, PROFESSIONAL LAND SURVEYOR NO. L-2981, CERTIFY TO ONE OR MORE OF THE FOLLOWING AS INDICATED THUS._____.

____. D. THAT THE SURVEY IS OF ANOTHER CATEGORY, SUCH AS THE RECOMBINATION OF EXISTING PARCELS, A COURT-ORDERED SURVEY OR OTHER EXCEPTION TO THE DEFINITION OF SUBDIVISION.

PRELIMINARY PLAT
NOT FOR RECORDATION,
CONVEYANCES OR SALES

CHARLES F. RIGGS, PROFESSIONAL LAND SURVEYOR NO. L-2981

THIS PLAT IS NOT SUBJECT TO THE ONSLOW COUNTY SUBDIVISION REGULATIONS, AND IS AN EXEMPTION PER SECTION 106 (D), ONSLOW COUNTY SUBDIVISION ORDINANCE. 07-20-20.

DATE _____ SUBDIVISION ADMINISTRATOR _____

IN ORDER FOR THIS EXEMPT PLAT TO BE COMPLETED A DEED REFERENCING THIS RECORDED PLAT MUST BE RECORDED WITH THE ONSLOW COUNTY REGISTER OF DEEDS.

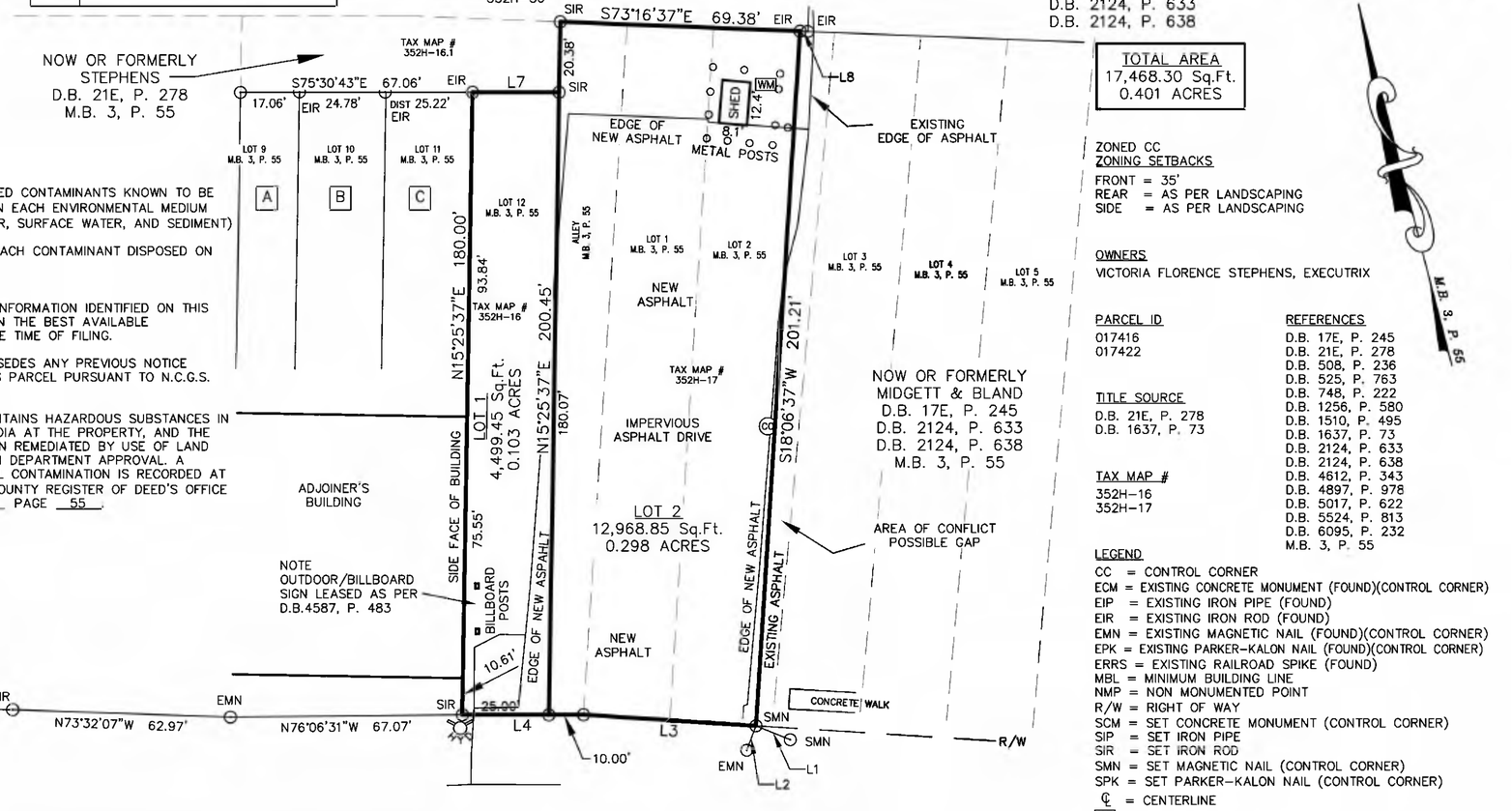
STATE OF NORTH CAROLINA, COUNTY OF ONSLOW
I, _____ REVIEW OFFICER OF ONSLOW COUNTY CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

DATE _____ REVIEW OFFICER _____

REGISTER OF DEEDS

A	NOW OR FORMERLY DUBOSE INVESTMENTS, INC. D.B. 5017, P. 622 PART OF LOT 9 M.B. 3, P. 55
B	NOW OR FORMERLY McLENDON D.B. 4897, P. 978 LOT 10 M.B. 3, P. 55
C	NOW OR FORMERLY PARKER & WILBUR D.B. 5524, P. 813 LOT 11 M.B. 3, P. 55

LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	10.68'	S53°27'30"E
L2	7.53'	S35°06'38"W
L3	50.00'	N71°53'23"W
L4	35.00'	N75°30'43"W
L5	21.06'	S74°06'00"E
L7	25.00'	S75°30'43"E
L8	2.20'	N73°16'37"W



APPROVED FOR THE PURPOSES OF N.C.G.S. 130A-310.8

_____

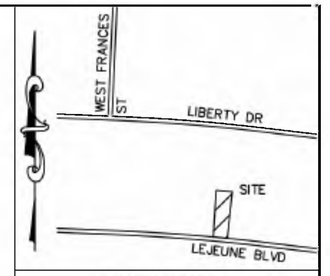
NORTH CAROLINA
WAKE COUNTY

I, _____, A NOTARY PUBLIC OF SAID COUNTY AND STATE, DO HEREBY CERTIFY THAT

_____ DID PERSONALLY APPEAR AND SIGN BEFORE ME THIS THE _____ DAY OF_____, 2024.

_____
NOTARY PUBLIC (SIGNATURE)

MY COMMISION EXPIRES _____ _____



VICINITY SKETCH
NOT TO SCALE

ALL POINTS NON MONUMENTED UNLESS OTHERWISE NOTED

TOTAL AREA
17,468.30 Sq.Ft.
0.401 ACRES

ZONED CC
ZONING SETBACKS
FRONT = 35'
REAR = AS PER LANDSCAPING
SIDE = AS PER LANDSCAPING

OWNERS
VICTORIA FLORENCE STEPHENS, EXECUTRIX

PARCEL ID
017416
017422

TITLE SOURCE
D.B. 21E, P. 278
D.B. 1637, P. 73

TAX MAP #
352H-16
352H-17

REFERENCES
D.B. 17E, P. 245
D.B. 21E, P. 278
D.B. 508, P. 236
D.B. 525, P. 763
D.B. 748, P. 222
D.B. 1256, P. 580
D.B. 1510, P. 495
D.B. 1637, P. 73
D.B. 2124, P. 633
D.B. 2124, P. 638
D.B. 4612, P. 343
D.B. 4897, P. 978
D.B. 5017, P. 622
D.B. 5524, P. 813
D.B. 6095, P. 232
M.B. 3, P. 55

LEGEND
CC = CONTROL CORNER
ECM = EXISTING CONCRETE MONUMENT (FOUND)(CONTROL CORNER)
EIP = EXISTING IRON PIPE (FOUND)
EIR = EXISTING IRON ROD (FOUND)
EMN = EXISTING MAGNETIC NAIL (FOUND)(CONTROL CORNER)
EPK = EXISTING PARKER-KALON NAIL (FOUND)(CONTROL CORNER)
ERRS = EXISTING RAILROAD SPIKE (FOUND)
MBL = MINIMUM BUILDING LINE
NMP = NON MONUMENTED POINT
R/W = RIGHT OF WAY
SCM = SET CONCRETE MONUMENT (CONTROL CORNER)
SIP = SET IRON PIPE
SIR = SET IRON ROD
SMN = SET MAGNETIC NAIL (CONTROL CORNER)
SPK = SET PARKER-KALON NAIL (CONTROL CORNER)
℄ = CENTERLINE
WM = WATER METER
= FIRE HYDRANT
= WATER VALVE
SS = SANITARY SEWER MANHOLE
CO = CLEAN OUT
PH = TELEPHONE PEDESTAL
TV = TELEVISION PEDESTAL
FO = FIBER OPTIC CABLE MARKER
= LIGHT POLE
= POWER POLE
= POWER LINE
EL = ELECTRIC TRANSFORMER
X1.5' = EXISTING SPOT ELEVATION

NOTES
A LIST OF REGULATED CONTAMINANTS KNOWN TO BE PRESENT (TODAY) IN EACH ENVIRONMENTAL MEDIUM (SOIL, GROUNDWATER, SURFACE WATER, AND SEDIMENT)

THE QUANTITY OF EACH CONTAMINANT DISPOSED ON THE PROPERTY (IF KNOWN)

THE CONTAMINANT INFORMATION IDENTIFIED ON THIS NOTICE IS BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF FILING.

THIS NOTICE SUPERSEDES ANY PREVIOUS NOTICE RECORDED FOR THIS PARCEL PURSUANT TO N.C.G.S. 130A-310.8.

THIS PROPERTY CONTAINS HAZARDOUS SUBSTANCES IN ENVIRONMENTAL MEDIA AT THE PROPERTY, AND THE PROPERTY HAS BEEN REMEDIATED BY USE OF LAND USE CONTROLS WITH DEPARTMENT APPROVAL. A NOTICE OF RESIDUAL CONTAMINATION IS RECORDED AT THE ONSLOW COUNTY REGISTER OF DEED'S OFFICE IN MAP BOOK 3 PAGE 55.

GRAPHIC SCALE
30' 0 15' 30' 60' 120'
(IN FEET)
1 inch = 30 ft.

ACTUAL FIELD SURVEY DATE: SEPTEMBER 23, 2024
MAPPING DATE: SEPTEMBER 30, 2024
FIELD BOOK: 1091, PAGE: 60
PROJECT NUMBER: 24-08-16 CKW

CHARLES F. RIGGS & ASSOCIATES, INC. (C-730)
LAND SURVEYING - CONVENTIONAL & GLOBAL POSITIONING SYSTEMS, LAND PLANNING & COMPUTER MAPPING
502 NEW BRIDGE STREET
P.O. BOX 1570
JACKSONVILLE, N.C. 28541-1570
TELEPHONE: (910) 455-0877
LANDFALL EXECUTIVE SUITES
1213 CULBRETH DRIVE
WILMINGTON, N.C. 28405
TELEPHONE: (910) 681-7444
E-MAIL: riggsland@riggslandnc.com

NOTICE PLAT FOR

VICTORIA FLORENCE STEPHENS, EXECUTRIX

PORTIONS OF D.B. 1637, P. 73
FORMERLY LOTS 1, 2 AND 12
LOTS 1 AND 2, BLOCK J, MORGAN & SHUGART, M.B. 3, P. 55
JACKSONVILLE TOWNSHIP, ONSLOW COUNTY, NORTH CAROLINA
VICTORIA FLORENCE STEPHENS, EXECUTRIX, OWNER: D.B. 1637, P. 73
2123 AND 2127 LEJEUNE BOULEVARD

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